REPO R T OF DR. BENJAMIN FRANKLIN, AND OTHER . COMMISSIONERS, CHARGED BY THE KING OF FRANCE. WITH THE EXAMINATION OF THE ANIMAL MAGNETISM, AS NOW PRACTISED AT PARIS. TRANSLATED FROM THE FRENCH. WITH AN HISTORICAL INTRODUCTION. D.S. M LONDON:

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INTRODUCTION.

HE fubject of the following pamphlet has excited the extremest attention in France, has for years filled their Journals and Mercures, and has employed fome of their best pens and their brightest wits. fome it has been applaud-Bv ed the greateft of as philofophical difcoveries, and by others decried as the juggle of an unprincipled impostor. The English nation has too much curiofity for every thing that occupies the neighbour kingdom, from whom we have long fince been used to receive the laws of politenefs and etiquette, and who have lately feemed to take the lead of us in philofophical difcovery, for the prefent translation not to prove an acceptable prefent to a large and refpec-A 2 table

table clafs of our countrymen. It has been thought proper, in order that the most uninformed reader may find in this little compilation, every species of information upon the subject, to prefix to it a brief account of the progress of this system.

M. Mefmer, the inventor of the animal magnetism, is a German phyfician. The first thing by which he diftinguished himself, appears to have been the publication of a Differtation upon the Influence of the Stars on the Human Body, printed at Vienna 1766, and publicly defended by him as a thefis in that univerfity. In 1774 father Hehl, a German philofopher, ftrongly recommended the use of the loadstone in the art of medicine. M. Mefmer became very early a convert to the principles of this writer, and actually carried them into practice with diffinguished fuccefs. In the midst however of his attention to the utility of the loadftone,

ftone, he was led to the adoption of a new fet of principles, which he conceived to be much more general in their application and importance. In conformity to these principles he laid afide the use of the loadstone, and proceeded with his cures in the method which he afterwards published to the world. This apoftacy involved him in a quarrel with father Hehl and the celebrated Ingenhouz, by whom he had formerly been patronized; and as their credit in Vienna was extremely high, and their exertions against him indefatigable, his fystem almost immediately funk into general difrepute. To parry their opposition he appealed in 1776 to the academy of fciences Here however his prinat Berlin. ciples were rejected as " deftitute of foundation and unworthy the fmalleft attention." Undifmayed by thefe important miscarriages, he made a progrefs through feveral towns of Germany, still practifing the methods of

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of the animal magnetism, and from time to time publishing an account of the cures he effected, which did not fail to be followed by a detection from his enemies. In the mean time, refolved, as it should feem, if possible not to deprive his country of the benefits of for valuable a difference, he returned a fecond time to Vienna, and made another effay with no greater fuccess than the former.

Decided in his conduct by thefe uninterrupted defeats, he left Germany and arrived at Paris in the beginning of the year 1778. Here one of the first connexions he formed was with M. A. J. S. D., author of the Dictionnaire des Merveilles de la Nature, from which work many of the following particulars are extracted. It is obferved by this writer, that " in fpite of the apparent cautioufnefs and referve of M. Mesmer, and even in fpite of the little fucces of his first experiments, he could not refuse him credit

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credit for fincerity in his conduct, and folidity in his reafonings; and he was convinced, that the failure did not originate in the fault of his agent. but the indifposition of the fubjects upon which it was employed." In April 1778, M. Mefmer retired to Creteil with the patients he had collected, and in a few months almost all of them returned to Paris perfectly reftored. One of them in particular was a paralytic, deprived of the ufe of her limbs, and who now walked with all the eafe and firmnefs in the world. In November M. A. J. S. D. introduced M. Mefmer to the houfe of a family of diffinction, and who were actuated with the extremest curiofity refpecting all difcoveries which had the benefit of humanity for their object. Here he made an experiment fo remarkable that it is neceffary to extract it fomewhat at length.

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"There being a pretty numerous company in the faloon, M. Mefmer touched fucceffively feveral perfons, fome of whom had nerves extremely irritable, without producing any effect fufficiently confiderable to deferve to be afcribed to the animal magnetifm. The operation was repeated; the fuccefs was the fame.

"The governor of the children of the family, a man of a very robuft and mufcular conflictution, little inclined to credulity, and fortified in his fcepticifm by what he had juft feen, had complained for fome time of a pain in his fhoulders. As he was beyond diffute the leaft fufceptible perfon in the company, he propofed himfelf by way of gafconade for the fubject of a laft experiment.

"M. Mefmer refufed to touch this gentleman, but confented to direct upon him the magnetifm from a finall diftance. In compliance with the doctor's inclinations, the governor turned turned his back, and M. Mefmer, feven or eight feet from his fubject, prefented his finger. This continued for two minutes, the governor replying to the repeated queftions of the doctor with much humour and irony. M. Mefmer then nodded his head fignificantly to the company, and in the mean time guided his finger upwards, downwards, and a little circularly. The patient faid that he felt a kind of fhuddering in the fuperior part of the back; he however afcribed it to the action of the fire near which he flood, and accordingly removed to another part of the room. The experiment was refumed, the fenfation augmented, and the patient faid he could compare it to nothing better, than a ftream of boiling water, circulating in the veins of his back and fhoulders. The impression became fo ftrong that he refused to fubmit to the experiment any longer. He was perfuaded however; the mafter of the houle house held one of his arms, and myfelf the other. In the process of the experiment the heat became fo infupportable, that he violently broke away from our grasp. It was fucceeded by a profuse perspiration in the part affected.

" M. Mefmer then placed the forefinger of each hand upon the cheft of the patient. The fame fenfation, but lefs violent, was produced in this part; it afcended gradually to the face, and was fucceeded by a perfpiration of the forehead. The patient then prefented his forefingers and thumbs, the reft of his hand being clenched; M. Mefmer did the fame very near to the patient, but without touching He complained fucceffively of him. a fhuddering, itching and ftiffness in the palms of his hands; thefe were again fucceeded by a local perfpiration."

To this remarkable experiment we will beg leave to add the following from

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from the Journal de Paris, No. 44, 1784.

"M. Mefmer being one day with meffieurs Camp — and d'E near the great canal at Meudon, propofed to them to go alternately to the other fide of the canal, while he remained where he was. He then directed them to thruft their cane into the water, in the mean time doing the fame himfelf. At this diftance M. Camp — was feized with a fit of the afthma, and M. d'E — with a pain in the liver to which he was fubject. Many perfons have been unable to fubmit to this experiment without fainting away."

" One evening M. Mefmer walked with fix perfons in the gardens of the prince de Soubife. He performed the magnetical operation upon a tree, and a little time after three ladies of the company fainted away. The duchefs de C——, the only remaining lady, fupported herfelf upon the tree, without out being able to quit it. The count de Monf ——, unable to ftand, was obliged to throw himfelf upon a bench. The effects upon M. Ang——, a gentleman of a very mufcular frame, were more terrible. M. Mefmer's fervant, who was fummoned to remove the bodies, and who was inured to thefe fcenes, found himfelf unable to move. The whole company were obliged to remain in this fituation for a confiderable time." Thefe inftances are cited by M. Thouret, Recherches & Doutes, p. 65.

M. Mefmer was from the firft defirous of fubmitting his fyftem to the examination of the faculty of medicine; but he would not fubmit to a regular and authentic committee appointed for that purpofe, apprehenfive as he faid of the baleful effects of the fpirit of fociety. This exception occafioned a mifunderftanding between him and the faculty, and the examination was never made.

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In France the fuccefs of M. Mefmer was the reverfe of what it had been in Germany. His patients increafed rapidly. His cures were numerous and of the most astonishing nature. He was obliged to form a number of pupils under his infpection to administer his process. In 1779 he published a Memoir respecting the Difcovery of the Animal Magnetifin, and promifed a complete fystem upon the fubject, which fhould make as great a revolution in philofophy, as it had already done in medicine. Struck with the clearnefs and accuracy of his reafonings, the magnificence of his pretenfions, and the extraordinary and unqueftionable cures he performed, fome of the greatest physicians and most enlightened philosophers of France became his converts. Among these M. Court de Gebelin particularly diftinguished himself, a writer, who had attained the higheft reputation by his refearches into antiquity,

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tiquity, and who was, if poffible, still more distinguished for the elegance of his tafte, the beauty of his conceptions and the richness of his fancy. The house of M. Mesmer at Creteil was crowded with patients. A numerous company was daily affembled at his houfe at Paris, where the operation was publicly performed; and M. Deflon, one of his pupils, is faid to have cleared £100,000. He was patronifed by people of the first rank, and, as M. Thouret observes, the animal magnetifm became a mode, an affair of bon ton, an interest, extremely precious and warmly efpoufed by the fashionable world.

In the mean time the new fyftem was by no means defitute of enemies. Some of the firft pens in France were drawn to oppofe it, and among others that of M. Thouret, regent-phyfician of the faculty. The faculty indeed had all along beheld its progrefs with the the extremest jealousy. At length it was thought to deferve the attention of government, and a committee, partly phyficians, and partly members of the royal academy of fciences, with doctor Benjamin Franklin at their head, were appointed to examine it. M. Mefmer refufed to have any communication with thefe gentlemen; but M. Deflon, the most confiderable of his pupils, confented to difclofe to them his principles, and affift them in their enquiries. Their Report forms the principal piece in the enfuing pamphlet. M. Mefmer however has appealed from their decifion to the parliament of Paris.

In the mean time it can no longer be concealed that the fyftem of the animal magnetifm is to be regarded as an impofture, and it may therefore be afked, why it fhould be thought neceffary to give to the public a tranflation of papers, which may be thought interefting only to perfons who

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who have been witneffes of the impofture. To this enquiry feveral good anfwers may be given.

One at which we have already hinted is the univerfal attention it has excited at Paris, where it feems to have divided the public fpeculations with the celebrated and incomparable difcovery of the aeroftatic globe. There are furely few people of a literary turn among us, who will confefs themfelves void of curiofity refpecting what engages all the faculties of our neighbours, or who will not confefs that their literary purfuits are commonly at leaft as interefting and inftructive a fubject of enquiry, as their politics.

Secondly, the Report of the commiffioners and the enquiries refpecting the animal magnetifm in general may be confidered as relating not merely to a temporary and unfounded hypothefis, but to the general and most important question refpecting the the influence of the imagination upon the animal frame, a queftion peculiarly interefting to the metaphyfician, and of the laft confequence in medicine. Upon this fubject the Report feems to throw new light, and to have a tendency to add precifion and accuracy to our notions in regard to it.

But the argument upon which we would place the principal ftrefs is the effential importance of this fact in the history of the human mind. Perhaps the hiftory of the errors of mankind, all things confidered, is more valuable and interefting than that of their difcoveries. Truth is uniform and narrow; it conftantly exists, and does not feem to require fo much an active energy, as a paffive aptitude of foul in order to encounter it. But error is endlefsly diverfified; it has no reality, but is the pure and fimple creation of the mind that invents it. In this field the foul has

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room enough to expand herfelf, to difplay all her boundlefs faculties, and all her beautiful and interefting extravagancies and abfurdities. It is obferved of civil hiftory, that it is properly the record of human calamities; the fame thing may be obferved of ecclefiaftical hiftory, it is the record of our errors. For this reafon a well written ecclefiaftical hiftory, a fpecies of composition that we fufpect does not yet exift, would perhaps be the most instructive study in the world.

But there is an additional reafon, which gives the error of the animal magnetifm a particular claim to our attention. The fame error was ftarted, if M. Thouret be in the right, two centuries ago. It is therefore worth our curiofity to enquire, what different inftruments were neceffary to deceive mankind in an ignorant and an enlightened age, in the commencement of the feventeenth and the clofe of

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of the eighteenth century; in a word to run a parallel between the borrowed fyftem of Mefmer, and the original one of Paracelfus, Maxwel and fir Kenelm Digby. And as every publication ought to be as complete as poffible within itfelf, we have deftined to affift the reader in this enquiry, the enfuing paper of the fociety of medicine refpecting M. Thouret's performance.

P. S. The following extract of a letter from the beft authority from Paris, has been received while these papers are in the press. It relates to the particulars of a fact alluded to at the bottom of page xiv.

"Mefmer has complained to the parliament of the report of the royal commiffioners, and requefted that they would appoint a new commiffion, to examine — not his theory and practice, but—a *plan*, which fhall exexhibit the only poffible means of infallibly demonstrating the existence and utility of his discovery. The petition was printed: many thought the parliament would do nothing in it. But they have laid hold of it to clinch Mesmer, and oblige him to expose all directly; fo that it must foon be seen whether there is any difference between his method and Deflon's.—I give you their

" Arret, of the 6 Sept. 1784. " The parliament ordains that Mefmer *foall be obliged* to expose, before four doctors of the faculty of medicine, two furgeons and two masters in pharmacy, the doctrine, which he professes to have discovered, and the methods which he pretends must be adopted for the application of his principles: they likewise ordain that a report of his communications shall then be delivered to the attorney general, to be laid before parliament for their fentence." Of a Committee of the Royal Society of Medicine, appointed to examine a Work, entitled, ENQUIRIES AND DOUBTS RESPECTING THE ANIMAL MAGNE-TISM, BY M. THOURET, Regent Phyfician of the Faculty of Paris, and Member of the Society. To which are fubjoined, by the Translator, Notes, chiefly extracted from M. Thouret's Performance.

HE underwritten were charged by the royal fociety of medicine, with the examination of a work of M. Thouret, member of the fociety, entitled, Enquiries and Doubts refpecting the Animal Magnetifm.

In the attentive perufal of this work, it is obvious to remark, that it has two very diftinct objects; one of them, which is in a manner hiftorical, is to explain the coineidences of the animal magnetism, as it was known to the ancients, with that which is admitted by the moderns: the other contains critical reflections and doubts in regard to the evidences upon which the doctrine is founded, the uncertainty of which В

which M. Thouret undertakes to difplay. We will endeavour to lay before the fociety an idea of his performance.

The animal magnetism held a principal rank among the fystems, which were embraced in that period of literary history, when suppositions were admitted to hold the place of facts; and this hypothesis vanished, together with many others, when experimental philosophy began to diffipate the impostures of the imagination, and to afford an accurate measure of the value of arts and sciences.

The object of this fystem was a fluid extremely subtle, upon which were bestowed the magnificent titles of foul of the world, spirit of the universe, and universal magnetic fluid; and which was pretended to be diffused through the whole space occupied by the material creation, to animate the system of nature, to penetrate all substances, and to be the vehicle to animated bodies in general, and their several regions in particular, of certain forces of attraction and repulsion, by means of which they explained the phenomena of nature.

Nor were they contented to admit, or rather to imagine, the fluid we have defcribed; they flattered themfelves that they were able, in certain methods, to render themfelves mafters of this fluid, and to direct its operations. Even this did not

not terminate their chimerical pretentions? they affirmed that this fluid, in which they admitted a species of flux and reflux, exerted an important degree of action upon the nerves, and had a grand analogy with the vital principle; that its effects, under the guidance of fkill and illumination, extended to very great diftances, without the intervention of any foreign fubftances; that it was poffible to impregnate with it, either certain powders, in the manner of fir Kenelm Digby, who afferted that he had done this, or fluids, or different parts of the bodies of animals; that this agent was like light reflected by mirrors, and that found and mufic augmented its intenfity.

The partifans of the animal magnetism, who wrote in the feventeenth century, did not yet confine their hopes within thefe limits : the art of directing the fluid, which they had brought down from heaven, and which, according to them, acted in fo * diftinguished a manner upon the human body, might be expected to have a confiderable share in the medical science, or rather to fuperfede that fcience, as it had hitherto existed; they did not fail to affert, that in caufing it to circulate in a proper manner, the reftoration of difeafed organs was infallible, as well the prefervation of B 2 the

the health of those who were yet unattacked with any disease (1).

Such was the origin of an external and univerfal medicine, of a fpecies entirely new, and which boafted of having the advantage of curing difeafes, without obliging any drugs to be fwallowed by the difeafed. Soon after poles were difcovered in the

(1) " It must be confessed however, that the manner of directing the pretended magnetism, is different in these fystems. The ancients, as well as M. Mesmer, regarded this fluid as univerfally diffufed, as pervading the bodies of animals, and as capable of being rendered the vehicle of the most falutary influences. But, in order to call it into action, they did not, like M. Mefmer, defire to touch, or fo much as to approach the patient. Their method confisted in a different order of proceeding. To give a fuitable direction to the univerfal fpirit, they were obliged to employ real parts, either extracted or evacuated, of the individual upon whom they proposed to direct the magnetifm. The different humours of the human body, whether natural, as the blood, the urine, the excrements, or contrary to nature, as the pus bred in wounds; in fine, the folid parts of the frame, as the flesh, the nails, the hair, in a ftate of feparation from the body, afforded, according to the ancient doctrine, the fuitable and neceffary means of employing the magnetifm. These different parts, fo long as they remained in a flate of integrity, were fupposed to be united in the link of a common vital principle with the individual who had furnished them. The union was operated by the intervention of the univerfal fpirit, and in acting upon them, the phyfician was faid to act also upon the person to whom they had belonged; an action, which, as it was independent of contact, and was not superfeded by distance, was regarded as magnetic." Thouret.

human body, that is, points, towards which it appeared that the action of this imaginary fluid ought to be directed, cures and evacuations were operated without the affistance of pharmacy, fensations of various kinds were excited in the patients; and notwithstanding the distinguished effects afcribed to this agent, it was afferted, that perfons the most feeble and delicate might fubmit to its process without danger. The process had yet another use, that of discovering the feat of the diftemper; a thing frequently fo difficult to be afcertained, but which was pointed out by the fluid by a fort of inftinctive intelligence, and with absolute demonstration. It perfected the concoction of the humours; nervous diftempers in particular, rarely refifted its influence; it was favourable to transpiration. In fine, and this laft remark is of particular importance, it had a powerful action upon the moral principles of our frame. A. propenfity, that could fcarcely be refifted, was the balis of the attachment and gratitude, which were vowed by the patients to those who had employed upon them this method of cure. Several, and in this number was Maxwel, even gave us to understand, that it was possible, in certain circumstances of human life, to make an **B** 3 im_s

improper ule of this vehicle of influence (2).

This picture of the animal magnetism, as it was invented and applauded by the ancients, is faithfully extracted from the performance of M. Thouret. The principal authors, to which he has recours in the progress of his enquiry, are Paracelfus, Van Helmont, Goclenius, Burgravius, Libavius, Wirdig, Maxwel, Santanelli, Tentzel, Kircher and Borel (3). The entire paf-

(2) " Far be it from me," fays Maxwel, "to lead you to improper actions. If from the perufal of my works, you become acquainted with the means of fuch actions, you will do me the justice not to divulge them. -I have seen," adds he, " the most incredible effects, and the greatest advantages from a right use of this method. I have also feen infinite evils occasioned by the abuse of it.-Indeed, it is scarcely prudent to treat of thefe fubjects, on account of the dangers that may refult from it. If we were to express ourselves in a manner univerfally intelligible, fathers could never be fure of their daughters, nor hufbands of their wives; women would be deprived of their felf-government in spite of the most judicious and obstinate relistance." Maxwel de medicina magnetica, apud Thouret.

(3) Paracelfus Arecolus Philippus Theophraftus Bombaftus de Hohenheim is to be regarded as the inventor of the magnetical fyftem. He was born at a village near Zurich in Switzerland in 1403, and died in 1541. His profession was that of a phylician, and he obtained great reputation by the use of mercury and opium, medicines that were unknown, or not employed by the phylicians of those times. But beside this, he was a proficient in alchymy, astrology, and magic. He was acquainted with the philosopher's store, and the unipaffages are extracted, and M. Thouret has difplayed in this performance, as he had already done in fo many others, an erudition, the most various, the most precise, and the most extensive.

univerfal medicine. And he invented an elixir, in the use of which a man could not fail to live to the age of a thousand years.

Van Helmont was the immediate fucceffor of Paracelfus in the purfuit of the magnetical fcience, and wrote an express treatife De Magnetica Vulnerum Curatione.

All the other perfons enumerated, lived in the feventeenth century.

"To Maxwel, we are particularly indebted for the most complete and copious treatife upon the fubject, in which he has endeavoured to fupport its declining credit by calling in the affistance of that theory of the universal spirit, which he derived from the earliest philosophers of antiquity, and in which we are prefented with the exact counterpart of the fystem of M. Mesmer.

"Another inhabitant of this ifland, the learned and illuftrious fir Kenelm Digby, is well known for his invention of the fympathetic powder; which it was only neceffary to apply to the linnen which had imbibed the blood or pus of a wound, or to the arm or fword of him who inflicted it, provided they were ftill ftained with the blood of the wounded perform. It was neceffary however, that the wound fhould be kept perfectly clean, and protected from the air.

"There was a fympathetic fweating powder, invented fo lately as the year 1745. The means of applying it was, by mixing it with the urine of the perfon difeafed, and keeping it boiling over a fire, as long as you wifhed the perfpiration to continue. During the operation, the patient was to keep his bed, to be covered up warm, and to drink feveral large bafons of tea. This medicine was never known to fail of its effect." *Thouret*.

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It is eafy to fee, how analogous is the fyftem we have defcribed to that of M. Mefmer. To demonstrate this analogy, M. Thouret has confidered feparately each of the propositions published and avowed by the latter. They amount to twentyfeven, and the refult of this examination is, that they are all positively announced in some of the authors whose names have been recited.

Every part of Mefmer's fystem, even down to the experiments of the ring and the fword, have been found by M. Thouret in the works of these writers (4). It is therefore certain, that the affertions of M. Mesmer, which are represented by him as principles of his own, do not belong to laim; and that this theory, in the room of being an attractive novelty, is an ancient fystem, abandoned by the learned near a century ago.

In afcending indeed to the original fyftems which were formed upon the fubject,

(4) The experiments of the ring and fword, are to be found in Kircher's Magnes, five de arte magnetica. They are both well known. "That of the fword confifts in the balancing it upon the point of one of the fingers, the confequence of which will be a very rapid rotatory motion, provided the perfon be properly magnetifed. That of the ring is performed by a perfon initiated in the aniinal magnetifm, holding it fufpended by a thread in the infide of a wine glafs, when it will invariably ftrike the hour of the day." Thouret.

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we are unable to difcover any thing but fuppositions destitute of proof, and for that reafon devoted to oblivion. The parts of this hypothefis were not connected together by any other tie, than that of the imagination. The steps that were proposed in order to its establishment, were the very fame that had been employed in favour of the art of cure, now by enchantments, and now by exorcifms. It has been always by fenfations that they have pretended to prove the existence of these different agents; and if this kind of proof were fufficient, there is not one of them which would not have been demonstrated. Sound philosophy has therefore refused credit, as well to this fpecies of proof, as to the magnetism, such as it was propofed by Maxwel, Goclenius and Santanelli, and fuch as we have defcrib, ed it in the opening of this report.

Has the animal magnetism of M. Mefmer any better claim to our confidence? M. Thouret, without replying to this question in a positive manner, has permitted to himfelf, in the second part of his work, certain reflections respecting it, which he has proposed simply as doubts, and which relate entirely to what M. Mesmer has published, or authentically advanced. It may be objected to him, fays. M. Thouret,

I. That

1. That the touch frequently employed in his method for a confiderable time, and on regions extremely fenfible, fuch as those of the ftomach, is of itself capable of producing effects, by communicating a vivid impulse to the nerves of the plexuses which are there fituated, and which have an intimate connection with the whole nervous fystem; that authentic records present us with a great number of facts of this kind, and that in confequence, the fensations, which originate in the application of the touch, do not prove the existence of a separate fluid or agent.

2. That the heat produced by the hand, and the motion communicated to the air, may occasion very strong impressions upon a perfon extremely sensible, and whose fibres are in a state of convulsion, without these impressions being calculated to prove a new agent.

3. That in fubduing the imagination by folemn preparations, by extraordinary proceedings, by the confidence and enthufias inspired by magnificent promises, it is possible to exalt the tone of sensible and nervous fibres, and afterwards to direct, by the application of the hands, their impulse towards certain organs, and to excite in them evacuations or excretions, without there refulting any addition to the sense, either of philosophy or medicine.

4. That

4. That the partifans of the animal magnetism do not produce what they call crifes, that is, a state of convulsions, but in subjects extremely irritable, extremely nervous, and above all, in women, whose fensibility has been already excited by the means we have described.

5. That among these disposing causes, particular strefs is to be laid upon the prefence of a perfon already in a ftate of convulfion, or ready to fall into that state: that just as an organ attacked with spafmodic affections, eafily propagates these affections to the other organs, in like manner are they transmitted from one man to another; that we have therefore no reafon to be furprised, if in the halls, where the pretended magnetical operations are performed, spasms, and even convulsions are diffused with extreme alacrity; and that history furnishes a great number of facts, of convultions propagated through whole villages or towns, in a manner still more aftonishing than that of which the animal magnetifm prefents us with an example.

6. That hiftory has alfo transmitted to us a great number of cures operated by fear, by joy, or the commotion of any violent passion; which proves beyond controversy, the power of nervous influences over difeases.

7. That

7. That in different ages, two famous empirics, Valentine Greatrakes of the kingdom of Ireland, and Gaffner of Ratifbon, produced upon different perfons effects which appeared furprifing, and have had their admirers; that they employed only the inftrumentality of the touch, either upon the nape of the neck, or the limb affected; and that it has been univerfally acknowledged, that they acted only upon the imagination (5).

8. That.

(5) " Valentine Greatrakes, efq; was a native of Afane, in the kingdom of Ireland. We are told, that one day he was confcious to a wonderful internal revolution, and at the fame time heard a voice like that of a genius, which cried inceffantly for a long time : " I " endow you with the faculty of curing difeases." Importuned by this falutation, from which he could in no way diffract his attention, he determined to make an experiment of the truth of the intelligence. The voice had first announced to him the gift of curing the king's evil. He made an experiment upon this diffemper, and fucceeded. He afterwards touched perfons attacked with an epidemical fever, that raged in his neighbourhood; the voice had announced to him the gift of curing this difeafe. In fine, he was enabled to cure every fpecies of difeafe; and he fucceeded in all cafes, except where, as he observed, the malady was too deeply rooted, or the patient laboured under a particular indifpolition to this method of cure. The exterior of this man was extremely fimple. His cures were accompanied with no degree of pomp and ceremony, unlefs we fhould call fuch, his afcribing his fuccefs to God, publicly expreffing his gratitude, and inviting the patient to join with him in the act of thankfgiving. But he made a very extenfive use of the operation of touch. The diftemper fled before

8. That in many inftances, the partifans of the magnetism feem to bestow a greater attention

before him, and he was able, we are told, to diflodge it from its feat, and remove it to parts the leaft uleful. If its progrefs appeared to be fufpended in any part, he redoubled his frictions upon that part, to remove the obftacle. In this operation nature, excited by the ftroking, feemed frequently to operate crifes, and it produced ftools, vomitings and perfpirations." Thouret.

"Greatrakes cured not only internal difeafes, but alfo external ones, fuch as wounds and ulcers. The fecond Villiers, duke of Buckingham, was one of his patients. His atteftations were figned by Boyle, Wilkins, Whichcot, Cudworth and Patrick. He was born in 1628, received the gift of healing 1662, and removed to London 1666." Des Maizeaux, Vie de St. Evremond.

" The cures of Gafiner are of a much later date, and are not above ten or twelve years old. This German, having in his youth been afflicted with an ill ftate of health, which relifted the efforts of all the phyficians, fuspected that his diffemper might have a fupernatural cause, and derive from the influence of the devil. His conjecture was verified by his fuccefs in expelling the devil, having adjured him in the name of Jefus Chrift. From that moment he enjoyed the most perfect health for fixteen years. Encouraged by this event, he laid afide the fludy of medicine, to which his diffemper had prompted him, and procured all the authors who had treated of exorcifm. He began with healing his parifhioners in an obfcure town upon the borders of Switzerland and the Tirol, and his reputation increased fo much, that, in the two laft years of his refidence there. he had between four and five hundred patients who applied to him. He then made a progress through leveral of the Swifs cantons, and fettled at Ratifbon in 1774. He diffinguished difeases into two classes, the natural and the demoniac, the laft of which were much the most numerous. Over the former he pretended to no power.

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attention to excite furprife in the fpectators, than falutary effects in their pa-

power. His cures were performed with much pomp and folemnity; and it was obferved, that he conftantly rubbed his hands upon his girdle and handkerchief previoufly to his touching the patient. He performed his cures in the name of Chrift, and by the faith of the difeafed in his holy name; if their faith failed, the cure did not take place. He gave the fick, when he difmiffed them, balm and oil, which he confidered as fpiritual medicaments, together with certain waters and powders, and a little ring, infcribed with the name of Jefus, to prevent a relapie." Thouret.

Thouret confiders the fyftem of Gaffner as having had an influence on that of M. Mefmer. Aftrology and poffeffions were extremely current in Germany; and as Gaffner had taken poffeffion of, and ruined the latter pretension, Mefmer had recours to the former. It should however be remembered, that Mefmer had written and published his thesis upon astrology before the pretensions of Gaffner were heard of.

These instances are produced by Thouret, as distinguifhed proofs of the efficacy both of the touch and the imagination. In proof of the contagion of convulfive affections, he cites the convulfions of Saint Medard, and the poffeffions of Loudun. " The former of these took place in 1732, and made their appearance as foon as any of the religious were approached to the tomb of their patron faint. They were exposed in the most triumphant manner, and covered with ridicule by Hecquet, in his Natural Hiftory of Convultions, The pretended poffeffions of Loudun (1740) originated in an infamous icheme of avarice and revenge against the unfortunate Urbain Grandier, rector of Loudun, who became the victim of the machinations of his enemies. The phyficians of Montpelier, charged with the examination of the affair, discovered the whole secret of the possessions "to confift in factitious and pretended convultions." Thouret.

tients;

tients; the spafms and convulsions which they produce being the source of undoubted evil, were it only by the habitude of that state which they are calculated to induce, while the advantages of this method are not equally demonstrated.

9. That certain local difeafes not being of the number of those upon which the animal magnetism acts, and certain perfons, by the confession of M. Mesmer, not being susceptible of its action, it may be suspected, that the partisans of this system have contrived for themselves this resource, in order to account for their failure of success in certain cases.

10. That to pretend to the difcovery of a means which shall extend to every kind of difease, that is, to an universal medicine, is an illusion which cannot be excused in an enlightened age.

11. That the known effects of fenfibility are fufficient to explain, without any new agent, the phenomena which M. Mefmer produces by a method which he has not yet imparted to the public.

12. That M. Mefmer, in fuppofing a particular agent, has adopted a rout contrary to the interests of his discovery, in following the example of those who have exerted their efforts to give credit to a fystem, worthy upon every account of the oblivion into which it has fallen.

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The fociety may judge of the performance from this extract: it is proper here to call to mind, that the royal fociety, acquainted with the zeal of M. Thouret, and his indefatigable enquiries into every thing that concerned the magnetifm, charged him in their feffion of the twelfth of March 1784, with the collection from the authors, as well ancient as modern, of all that had been written refpecting the animal magnetifm. This collection, which is fufficiently complete to fatisfy every reafonable defire, and of which M. Thouret communicated the plan to the fociety, composes the first part of his work, and is to be confidered as his report to the fociety upon that fubject. We are of opinion, that the fociety is extremely indebted to him in that respect. The fecond part contains judicious reflections and fagacious doubts. We think both of them worthy of being printed with the approbation and privilege of the fociety.

The fociety, charged by the king with the examination of all new inventions and fecret methods of healing difeafes, has not beheld without inquietude, the fpecies of vogue acquired by the animal magnetifm; whofe procedures, whatever be their merit, have been and are administred to the difeafed, and paid for by the public, without without having previoufly, in obedience to the express provisions of the laws of the kingdom, undergone the examination of the phyfical profession; an abuse, against which the fociety, as in duty bound, has exclaimed ever fince its introduction. They have a right to take much pride to themfelves, that one of their members is publifting fo learned enquiries upon a fubject, which has not been hitherto treated but in anonymous compositions, which are, for the greater part, deftined more for the amusement than the instruction of their readers. The work of M. Thouret, full of depth and fagacity, will enlighten those who are impartial in their enquiries, and will greatly tend to the folution of a question, upon which the public interest requires that fentence should be pronounced as foon as possible.

Louvre, July the 9th, 1784.

(Signed)

GEOFFROY, DESPERRIERES, JEANROI, DEFOURCROY, CHAMBON, VICQ D'AZYR.

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REPORT

OF THE

COMMISSIONERS, &c.

HE king named, on the twelfth of March 1784, four phyficians of the faculty of Paris, mefficurs Borie, Sallin, d'Arcet, Guillotin, to enter into the examination, and to lay before him an account of the animal magnetism practifed by M. Deflon: and upon the petition of thefe phyficians, his majefty joined with them, for the purpose of this inquisition, five members of the royal academy of sciences, mefficurs Franklin, le Roy, Bailly, de Borie, Lavoifier. M. Borie having died in the commencement of the bufinefs, his majesty appointed M. Majault, doctor of the faculty, to replace him.

M. Meimer has defcribed the agent he professes to have discovered, and to which he has given the appellation of animal magnetifm, in the following manner. " It " is

is a fluid univerfally diffufed; the vehi-!! cle of a mutual influence between the " celeftial bodies, the earth and the " bodies of animated beings; it is fo " continued as to admit of no vacuum ; " its fubtlety does not admit of illustraç 6 tion; it is capable of receiving, propa-" gating and communicating all the im-66 preffions that are incident to motion; " it is fusceptible of flux and reflux. The 66 animal body is fubject to the effects of " this agent; and these effects are immediately produced by the agent infinu-" ating itself into the substance of the " nerves. We particularly difcover in the " human body qualities analogous to those " of the loadstone; we distinguish in it poles different and opposite. The action 66 66 and the virtue of the animal magnetifm 66 are capable of being communicated from " one body to another, animated or in-" animate; they exert themselves to con-" fiderable diftances, and without the leaft " affistance from any intermediate bodies : " this action is increafed and reflected by " mirrors; it is communicated, propa-" gated and augmented by found; and the " virtue itself is capable of being accu-" mulated, concentrated and transferred. " Though the fluid be universal, all ani-" mal bodies are not equally fusceptible " of ^{**} of it; there even are fome; though very ^{**} few, of fo opposite a nature, as by their ^{**} mere prefence to superfede its effects ^{**} upon any other contiguous bodies.

"The animal magnetism is capable of " curing immediately diseases of the nerves, " and mediately other diftempers; it im-" proves the action of medicines; it "forwards and directs the falutary crifes " fo as to fubject them totally to the " government of the judgment; by means " of it the physician becomes acquainted " with the state of health of each indi-" vidual, and decides with certainty upon " the causes, the nature and the progress " of the most complicated distempers; " it prevents their increase, and effects " their extirpation, without at any time " exposing the patient, whatever be his " age, fex or conftitution, to alarming in-" cidents, or unpleasing consequences *." " In the influence of the magnetism, nature " holds out to us a fovereign inftrument " for fecuring the health and lengthening " the existence of mankind +."

Such is the agent, with the examination of which the commissioners have been

* Memoir by M. Melmer, upon the Difcovery of the Animal Magnetifm, 1779, pages 74 and following.

+ Ibid. Advertisement, page vi. C 2

charged,

charged, and whole properties are avowed by M. Deffon, who admits all the principles of M. Mefmer. This theory forms the basis of a memoir, which was read at the house of M. Deffon, on the ninth day of May, in the prefence of M. the lieutenant general of the police, and the commiffioners. It is afferted in this memoir, that there is but one nature, one diftemper and one remedy; and this remedy is the animal magnetism. This physician, at the fame time that he acquainted the commiffioners with the doctrine and procefs of the magnetism, instructed them in its practice by difcovering to them the poles, and shewing them the manner of touching the difeafed, and directing in regard to them the magnetic fluid.

M. Deffon undertook to the commiffioners, in the first place, to evince the existence of the animal magnetism; fecondly, to communicate to them his knowledge respecting this discovery; and thirdly, to prove the utility of this discovery and of the animal magnetism in the cure of diseases.

After having thus made themfelves acquainted with the theory and practice of the animal magnetifm, it was neceffary to obferve its effects. For this purpofe the commissioners adjourned themfelves, and each

each of them repeatedly witneffed the public method of M. Deffon. They faw in the centre of a large apartment a circular box, made of oak, and about a foot or a foot and an half deep, which is called the bucket; the lid of this box is pierced with a number of holes, in which are inferted branches of iron, elbowed and moveable. The patients are arranged in ranks about this bucket, and each has his branch of iron, which by means of the elbow may be applied immediately to the part affected; a cord passed round their bodies connects them one with the other: fometimes a fecond means of communication is introduced, by the infertion of the thumb of each patient between the forefinger and thumb of the patient next him; the thumb thus inferted is preffed by the perfon holding it; the impreffion received by the left hand of the patient, communicates through his right, and thus paffes through the whole circle.

A piano forté is placed in one corner of the apartment, and different airs are played with various degrees of rapidity; vocal mufic is fometimes added to the inftrumental.

The perfons who fuperintend the procefs, have each of them an iron rod in his hand, from ten to twelve inches in length. °C 4 Μ.

M. Deflon made to the commissioners the following declarations. 1st. That this rod is a conductor of the magnetism, has the power of concentring it at its point, and of rendering its emanations more con-2dly. That found, conformfiderable. ably to the theory of M. Mefmer, is also a conductor of the magnetism, and that to communicate the fluid to the piano forté, nothing more is neceffary than to approach to it the iron rod; that the perfon who plays upon the inftrument furnishes also a portion of the fluid, and that the magnetism is transmitted by the founds to the furrounding patients. 3dly. That the cord which is paffed round the bodies of the patients is deftined, as well as the union of their fingers, to augment the effects by communication. 4thly. That the interior part of the bucket is fo confructed as to concentre the magnetifm, and is a grand refervoir, from which the fluid is diffused through the branches of iron that are inferted in its lid.

The commissioners in the progress of their examination discovered, by means of an electrometer and a needle of iron not touched with the loadstone, that the bucket contained no substance either electric or magnetical; and from the detail that M. Deslon has made to them respecting the interior construction of the 4 bucket, they cannot infer any phyfical agent, capable of contributing to the imputed effects of the magnetism.

The patients then, arranged in confiderable number and in fucceffive ranks round the bucket, derive the magnetic virtue at once from all these conveyances: from the branches of iron, which transmit to them that of the bucket; from the cord which is paffed round their bodies, and the union of their fingers, which communicate to them that of their neighbours; and from the found of the piano forté, or of a mufical voice, which diffufes it through the air. The patients are befide magnetifed directly, by means of a finger or a bar of iron, guided before the face, above or behind the head, and over the furface of the parts affected, the diffinction of the poles ftill obferved; they are also acted upon by a look, and by having their attention ex-But efpecially they are magnetifed cited. by the application of the hands, and by the preffure of the fingers upon the hypochonders and the regions of the lower belly; an application frequently continued for a long time, fometimes for feveral hours.

In this fituation the patients offer a fpectacle extremely varied in proportion to their different habits of body. Some of them are calm, tranquil and unconfcious

confcious to any fenfation; others cough, fpit, are affected with a flight degree of pain, a partial or an universal burning, and perfpirations; a third clafs are agitated and tormented with convultions. These convulsions are rendered extraordinary by their frequency, their violence and their duration. As foon as one perfon is convulsed, others presently are affected by that fymptom. The commissioners faw acceffes of this kind, which lasted upwards of three hours; they were accompanied with expectorations of a thick and vifcous water, brought away by the violence of the efforts. Sometimes these expectorations were accompanied with fmall quantities of blood; and there is among others a lad, a patient, who has frequently brought up blood in confiderable abundance. These convulsions are characterifed by precipitate and involuntary motions of all the limbs or of the whole body, by a contraction of the throat, by fudden affections of the hypochonders and the epigastrium, by a distraction and wildnefs in the eyes, by fhrieks, tears, hiccuppings, and immoderate laughter. They are either preceded or followed by a flate of languor and reverie, by a fpecies of dejection and even drowfinefs. The least unforeseen noise occasions starting; and it has been observed, that the changing of the

the key and the time, in the airs played upon the piano forté, had an effect upon the patients; fo that a quicker motion agitates them more, and renews the vivacity of their convultions.

There is an apartment lined with quilting, which was originally defined for the patients in whom the magnetism produced convultions, and is denominated the apartment of crifes; but M. Deffon has not judged proper to make any use of it; and all the patients, whatever be the accidents of their fituation, are placed together in the apartment of public proceeding.

Nothing can be more aftonishing than the fight of these convulsions; he that has not had it, can have no idea of it: and in beholding it, a man is not lefs ftruck with the profound repose of one class of patients, than with the violence which agitates another; he observes with admiration the various accidents that are repeated, and the fympathies that are developed. He fees fome patients feek each other with eagerness; and in approaching finile, converse with all the demonstrations of attachment, and foothe their mutual crifes. They are entirely under the government of the perfon who distributes the magnetic virtue: in vain they may appear to be in a state of the extremest drowsines, his voice, a look, a fign from him roufes them.

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It is impoffible not to recognife in thefe regular effects an extraordinary influence, acting upon the patients, making itfelf mafter of them, and of which he who fuperintends the process, appears to be the depository.

These convulsive affections are improperly fulled crifes in the theory of the animal magnetism: according to this doctrine indeed they are regarded as a falutary crifis, of the fame kind as those which nature produces, or which a skilful physician has the art to excite to facilitate the cure of difeases. The commissioners will adopt this expression in the following report; and, wherever they employ the word crifis, they will always understand the convulsive, drowfy or lethargic affections, produced by the means of the animal magnetism.

The commiffioners obferved, that in the number of patients in the flate of crifis, there were always many women and few men: that it was one or two hours before thefe crifes took place; and that, when one had taken place, all the others commenced fucceflively, and without any confiderable interval. But after having made thefe general remarks, the commiffioners were fpeedily of opinion, that the public procefs could not be made the fcene of their experiments. The multiplicity of the effects is one obstacle; too many things are feen at once for any one of them to be feen well. Befide, the patients of rank, who repair hither upon account of their health, might be displeased with the enquiries of the commissioners; the very act of watching them might appear a nuifance; and the recollection of this might be burdenfome, and impede the commiffioners in their turn. They therefore refolved, that as their frequent attendance at the public process was unneceffary, it would be fufficient for a few of them to go from time to time, to confirm the former general observations, to make new ones in cafe an opportunity should occur for that purpofe, and to report them to the commission assembled.

After having observed these effects at the public process, it behaved them, in the next place, to endeavour to discover their causes, and enquire into the proofs of the existence and utility of the magnetism. The question of its existence is first in order; that of its utility it were idle to examine, till the other shall have been fully refolved. The animal magnetism may indeed exist without being useful, but it cannot be useful if it do not exist.

Of confequence the first object of attention with the commissioners, and the direct tendency of their first experiments, ought ought to be the afcertaining this existence. Again, this was itfelf an object of confiderable comprehension, and had need of being fimplified. The animal magnetifm embraces the whole compais of nature; it is the vehicle, we are told, of the influence exerted upon us by the celeftial bodies; the commissioners were of opinion, that they ought, in the first place, to leave this more extensive influence out of the question, and to confider only that part of the fluid which is diffused over the earth, without troubling themfelves with whence it comes; in a word, to evince the action it exercises upon us, around us, and within the fphere of our inspection, before they undertook to examine its relation to the univerfe.

The most certain method of determining the existence of the animal magnetic fluid, would have been, to have rendered its prefence capable of being perceived by the fenefs; but much time was not neceffary to convince the commissioners that this fluid is too fubtle to be fubjected to their obfervation. It is not, like the electrical fluid, luminous and visible; its action is not, like the attraction of the loadstone, the object of our fight; it has neither tafte nor fmell; its process is filent, and it furrounds you or penetrates your frame, without your being informed of its prefence by the fenfe of touch. If therefore it exift in us and and around us, it is after a manner perfectly infenfible. There are perfons among those who profess the magnetism, who pretend that it may fometimes be feen paffing from the extremity of the fingers, which ferve it for conductors, or who believe that they feel its paffage when you guide your finger before their face, or along their hand. In the first of these cases, the emanation perceived is merely that of tranfpiration, which becomes completely vifible when viewed through a folar microfcope; in the fecond, the impression of cold or freshness which is felt, an impression by fo much the more perceptible the warmer one is, refults from the motion of the air which follows the finger, and the degree of whofe temperature is always below that of animal heat. When, on the other hand, the finger is approached to the furface of the face, which is colder than the finger, and it is held at reft, the confequence is a fenfation of heat, which is no other than the communication of the animal heat.

It is also pretended that this fluid has a fmell, and that it is perceived when either the finger or an iron conductor is brought into contiguity with the nostrils; it is even faid, that the fensation is different, according as the finger or the rod of iron is directed parallel with, or opposite to the poles. M. Deffon effayed the experiment upon upon feveral of the commissioners; the commissioners themselves have repeated it upon different subjects; not one has experienced this difference of sension is and if, by giving a close attention, any scent has been perceived, it has been that of the iron, when the rod has been presented rubbed and heated; or that of the emanation of the transpiration, when the finger has been presented, a scent frequently combined with that of the iron with which the finger itself has been impressed. These effects have been erroneously attributed to the magnetism, but they may be traced in reality to natural and definite causes.

Indeed M. Deflon has never infifted upon these transient impressions, he did not think they were to be offered in evidence; on the contrary he expressly affured the commissioners, that he could not demonstrate to them the existence of the magnetism, otherwise than by the action of this fluid, producing certain changes in animated bodies. This existence is fo much the more difficult to be demonstrated by effects, which shall be incontrovertible, and whofe caufes shall be unequivocal; by authentic facts, in cafes where moral circumstances cannot exert their influence: in a word, by proofs calculated to convince and compel the understanding, the only ones which can yield any folid fatisfaction to

to perfons really proficient in the fludy of nature.

The action of the magnetifm upon animated bodies may be observed in two difrent ways; either as it confists in that action continued for a long time, and in its falutary effects in the treatment of difeases, or in its momentary effects upon the animal æconomy and the perceptible changes there produced. M. Deflon infisted that the former of these methods should be employed principally, and nearly exclusively; the commissioners have been of a different opinion, and their reasons are as follow.

The majority of difeafes have their feat in the interior part of our frame. The collective experience of a great number of centuries has made us acquainted with the fymptoms, which indicate and difcriminate them; the fame experience has taught the method in which they are to be treated. What is the object of the efforts of the phyfician in this method? It is not to oppose and to subdue nature, it is to affist her in her operations. Nature, fays the father of the medical science, cures the diseased; but fometimes she encounters obstacles, which constrain her in her course, and ufelefsly confume her ftrength. The phyfician is the minister of nature; an attentive observer, he studies the method in which

which she proceeds. If that method be firm, ftrong, regular and well directed, the phyfician looks on in filence, and bewares of diffurbing it by remedies which would at least be useles; if the method be embarraffed, he facilitates it; if it be too flow or too rapid, he accelerates or retards it. Sometimes, to accomplifh his object, he confines himfelf to the regulation of the fometimes he employs medicines. diet : The action of a medicine, introduced into the human body, is a new force, combined with the principal force by which our life is maintained: if the remedy follow the fame route, which this force has already opened for the expulsion of difeases, it is useful, it is falutary; if it tend to open different routes, and to turn alide this interior action, it is pernicious. In the mean time it must be confessed that this falutary or pernicious influence, real as it is, may frequently escape common obser-The natural history of man prevation. fents us in this refpect with very fingular phenomena. It may be there feen that regimens the most opposite, have not prevented the attainment of an advanced old We may there fee men, attacked age. according to all appearance with the fame difeafe, recovering in the purfuit of opposite regimens, and in the use of remedies totally different from each other; nature is in

in these instances sufficiently powerful to maintain the vital principle in fpite of the improper regimen, and to triumph at once over the diftemper and the remedy. If it have this power of relifting the action of medicine, by a still stronger reason it must have the power of operating without medicine. The experience of the efficacy of remedies is always therefore attended with fome uncertainty; in the cafe of the magnetifm the uncertainty has this addition, the uncertainty of its existence. How then can we decide upon the action of an agent, whose existence is contested, from the treatment of difeafes; when the effect of medicines is doubtful, whose existence is not at all problematical?

The cure which is principally cited in favour of the magnetism is that of M. le baron de ____; all claffes are acquainted with its hiftory. We shall not here enter into a difcuffion of the facts; we shall not enquire whether the remedies precedingly employed might have contributed to this On the one hand the very critical cure. fituation of the patient is admitted, and on the other the inefficacy of all the ordinary means of medical fcience; the magnetifm has been employed and M. le baron de has completely recovered. But might not a natural crifis have fingly operated this recovery? A woman of low D_2 rank

rank and extremely poor, who lived at the Gros-caillou, was attacked in 1779 with a malignant fever in all its fymptoms; fhe refolutely refused every affiftance, the only defired that a veffel which she had near her should be kept constantly replenished with water : fhe remained quiet upon the ftraw which ferved her for a bed, drinking water continually and doing nothing more. The difeafe developed itfelf, paffed fucceffively through its different stages, and terminated in a complete cure *. Mademoifelle G-, who lived at the leffer royal mews, had two indurations formed in her right breaft, which gave her great pain; a furgeon recommended to her the use of the Eau du Peintre as an excellent diffolvent; at the fame time informing her, that if this remedy did not fucceed in a month, it would be neceffary to extirpate them by incifion. The young lady, terrified at this fentence, confulted M. Sallin, who gave it as his opinion that the indurations were fusceptible of refolution; M. Bonvart, who was also confulted, confirmed the opinion of M. Sallin. Before entering upon any course of remedy,

* The observation of this fact was laid in detail before the faculty of medicine at Paris, in an assembly de prima mensis, by M. Bourdois de la Mothe, physician of the charity of Saint-Sulpice, who visited the fick person regularly every day. they prefcribed diffipation; fifteen days after fhe was feized at the opera with a violent cough, and fo profufe an expectoration, that fhe was obliged to be carried home; fhe fpit in the fpace of four hours about three pints of a viscid lymph; one hour after this M. Sallin examined the breaft, he discovered no trace of induration. M. Bouvart, called in the next day, proved on his part the happy effect of this natural crifis. If mademoifelle G---- had taken Eau du Peintre, the honour of her cure would have been attributed to this medicine.

The uninterrupted obfervation of ages proves, and the profeffors of phyficacknowledge, that nature alone and without our interference, cures a great number of perfons. If the magnetifm were abfolutely inactive, the patients, who undergo this method of cure, might be confidered as abandoned to nature. It would be abfurd to chufe a method of deciding upon the existence of this agent, which, by attributing to it all the cures performed by nature, would tend to prove that it had an action useful and curative, when in reality it might have no action at all.

Upon this head the commissioners are of the opinion of M. Mesmer. He rejected the cure of diseases, when this method of proving the magnetism was pro-D 3 posed pofed to him by a member of the academy, of fciences: "It is a miftake," replied he, " to imagine that this kind of proof is " unanfwerable; it cannot be demonstrat-" ed that either the physician or the me-" dicine caufes the recovery of the pa-" tient *."

The treatment of difeafes can therefore furnish nothing but a refult, always uncertain, often deceitful; nor can this uncertainty be diffipated, and all the caufes of, illufion compensated, but by an infinity of cures, perhaps by the experience of fucceffive centuries. The object and importance of the commission demand means of a fpeedier defcription. It was the duty of the commissioners to confine themselves to arguments purely physical, that is, to the momentaneous effects of the fluid upon. the animal frame, excluding from these effects all the illusions which might mix. with them, and affuring themfelves that they could proceed from no other caufe than the animal magnetifm.

They proposed to make experiments upon fingle subjects, who might be willing to submit to the various experiments which they should invent; and who, some of them by their simplicity, and others by their intelligence, should be capable of

* M. Mesmer, Historical Abridgement, pages 35, 37. giving giving an exact and faithful account account of their fenfations. Thefe experiments we fhall not confine ourfelves to relate in the order of time, but fhall follow the order of the facts they were intended to elucidate.

The commissioners in the first place refolved to make their first experiments upon themfelves, and perfonally to experience the action of the magnetism. They were extremely curious to become acquainted by their own fenfations with the effects afcribed to this agent. They therefore fubmitted themfelves to these effects, and in fuch a difposition, that they would not have been forry to have undergone fome accidents and a partial derangement of health, which being evidently produced by the operation of the magnetism, should have enabled them to decide this important question upon the spot, and with their own teftimony. But in fubmitting themfelves to the magnetism in this manner, the commissioners have employed one necesfary precaution. There is not an individual, in a flate of the fulleft health, who, if he paid a close attention to the point, would not be fenfible to infinity an of interior motions and variations, either of a pain infinitely flight, or of heat in different parts of his body; thefe variations which exist at all times are independent of the magnetism. To D۵ turn

turn and fix in this manner ones attention upon onefelf, is not perhaps itfelf entirely without its effects. There is fo intimate a connection, whatever be the vehicle of that connection, between the volitions of the foul and the motions of the body, that it is not eafy to prefcribe limits to the influence of attention, which appears to be nothing more than a train of volitions, directed, constantly and without interruption, to the fame object. When we recollect that the arm is moved by the will as it pleafes, how can we be certain, that the attention being fixed upon fome interior part of our frame, may not excite fome flight emotion in it, direct the heat towards it, and fo modify its actual fituation as to produce in it new fenfations? The first thing therefore, to which the commissioners were bound to attend, was not to observe too minutely what passed within them. If the magnetism were a real and operative cause, there was no need that it should be made an object of thought, in order to its action and manifesting itfelf: it ought, fo to express ourfelves, to compel and arrest the attention, and to render itself perceptible to a mind that fhould even be diffracted from it by defign. But in determining to make experiments upon themfelves, the commissioners

ments upon themselves, the commissioners unanimously resolved to make those experiments private, without admitting any stranger, ftranger, except M. Deflon, by whom the operation was to be performed, or fuch perfons as they fhould chufe; in like manner they engaged not to fubmit to the magnetifm at the public procefs, in order that they might difcufs freely their obfervations, and be in all events the fole, or at leaft the first judges of the fymptoms obferved.

In purfuance of these determinations, a particular apartment and a separate bucket were defined for their use in the house of M. Deflon, and the commissioners repaired thither once in the course of every week. The operation was continued in each experiment for two hours and a half, the branch of iron being in contact with the left hypochonder, furrounded with a cord of communication, and forming from time to time the chain of fingers and thumbs. They were magnetifed either by M. Deflon, or, in his absence, by one of his pupils; fome of them for a longer time and more frequently than others, and those with whom this was the cafe were the commiffioners who appeared from conflictution and habit the most fusceptible. The operation was performed fometimes with the finger and the rod of iron prefented and guided along the different parts of the body, fometimes by the application of the hands and the preffure of the fingers, either upon

upon the hypochonders, or upon the pit of the ftomach.

Not one of the commissioners felt any fenfation, or at least none which ought to be afcribed to the action of the magnetifm. Some of the commissioners are of a robust conftitution; others have more delicate habits, and are subject to interruptions of their health: one of these last, was fensible of a flight pain at the pit of the ftomach, in confequence of a confiderable preffure that was employed upon that part. This pain continued all that and the next day, and was accompanied with a fenfation of fatigue and dejection. Another felt, in the afternoon of one of the days in which the experiments were performed, a flight irritation of the nerves, to which he is very fubject. A third, endowed with a still greater fenfibility, and effectially with an extreme restlession of the nerves, was fubject to a higher degree of pain and a more perceptible irritation; but thefe leffer accidents are the refult of perpetual and ordinary variations in the state of their health, and are of confequence foreign to the operation they had undergone, or proceed only from the preffure employed upon the region of the ftomach. The commiffioners do not speak of these flight details, but from a fcrupulous fidelity; they relate them, becaufe they have imposed it 28

as a law upon themfelves conftantly and in every particular to fay the truth.

The commissioners could not avoid being ftruck with the difference of the private experiment made upon themfelves from the public process. All was calm and filence in the one, all reftlefinefs and agitation in the other; there multiplied fymptoms, violent crifes, the ordinary state both of body and mind interrupted and overthrown, and nature wrought up to the higheft pitch; here the body free from pain, and the mind from anxiety, nature. preferving her ordinary courfe and her equilibrium, in a word the absolute privation of every kind of effect: the ftupendous influence, which creates fuch an aftonishment in the public process, appears no longer; the magnetism stripped of its energy feems perfectly fupine and inactive.

The commissioners, having at first submitted to the experiment only once a week, were defirous to ascertain whether a continuity of experiment would produce any effect; they submitted to it three days fucceffively, but their infensibility was the same, and the magnetism appeared with respect to them perfectly impotent. This experiment, made at once upon eight different subjects, several of whom were subject to habitual derangements of health, authorises the conclusion that the magnetism netifm has little or no action in a flate of health, or even in a flate of leffer infirmity. We then refolved to make experiments upon perfons really difeafed, and we chose them out of the lower clafs.

Seven of these were assembled at Passy, at the house of Dr. Franklin; the operation was performed upon them by M. Deslon in the presence of all the commissioners.

The widow Saint-Amand, afthmatic, having the belly, legs and thighs fwelled; and dame Anfeaume, who had a fwelling upon her thigh, felt no fenfation; the little Claude Renard, a child of fix years of age, fcrophulous, almost confumptive, having the knees fwelled, the legs bent inward, and the articulation nearly deprived of motion, a very interesting child, and poffeffing a greater degree of underftanding than is usual at his age, was likewife confcious to no fenfation ; any more than Geneviève Leroux, nine years of age, fubject to convulsions, and to a diforder greatly refembling that which is called St. Vitus's Dance. François Grenet experienced fome effects; he had a diftemper in his eyes, particularly in the right, in which he had fcarcely any fight, and in which there was a confiderable tumour. When the operation was directed towards the left eye, by approaching and moving backward

backward and forward the thumb very near and for a confiderable time, he was fenfible of a pain in the ball of the eye, and the eye watered. When the operation was directed to the right eye, which was the most difordered, he felt no fensation in it; he felt the fame pain in the left eye, and nothing in any other part of the body.

Dame Charpentier, who had been thrown down against a log of wood by a cow two years before, had experienced the most unfortunate confequences from this accident; fhe loft her fight, recovered it afterwards in part, but remained in a state of habitual infirmities; the declared that the had two ruptures, and the belly of fo great fenfibility, that she could not bear the preffure of the ftrings of her petticoats : this fenfibility belongs to the cafe of nervous irritation; the flighteft preffure upon the region of the belly is capable of determining this irritation, and producing, through the correspondence of the nerves, effects in every part of the body.

The operation was performed upon this woman as upon the reft by the application and the preffure of the fingers; the preffure was extremely painful to her: afterwards, in directing the finger towards the rupture, fhe complained of a pain in her head; the finger being placed before her her face, she faid she could not draw her breath. Upon the repeated motion of the finger upwards and downwards, the had fudden starts of the head and shoulders, like those which are commonly occasioned by furprife mixed with terror, for inftance that of a perfon who has fome drops of cold water fuddenly thrown in his face. She appeared to have the fame flartings when her eyes were closed. The fingers being held under her nofe, while her eyes were shut, she complained of a sensation of faintness fo long as they were continued there. The feventh fubject, Joseph Ennuyé, experienced sensations of a fimilar nature, but much less confiderable.

Of these feven patients four felt no fensation at all; three experienced some effects from the operation. These effects deferved to engage the attention of the commissioners, and demanded an accurate examination.

The commissioners, to obtain further light, and to define their ideas upon this part of the fubject, refolved to make the experiment upon patients, placed in other circumstances, and felected from the polite world; fuch as could not be fuspected of finister views, and whose understanding made them capable of enquiring into and giving a faithful account of their fensations. Mesdames de B—— and de V——, mession

meffieurs M---- and R---- were admitted to the private bucket together with the commissioners; they were intreated to remark their fenfations, without fixing upon them too regular an attention. M. M----- and madame de V----- were the only perfons who experienced any fenfation. M. M----- had an indolent tumour over the whole articulation of the knee. and a conftant pain in the patella. He declared, during the operation, that he felt nothing in any part of his body, except in the moment that the finger was guided before the difeafed knee; he then thought that he felt a flight degree of heat in the place, in which he has habitually the fenfation of pain. Madame de V----, attacked with a nervous diforder, was feveral times upon the point of falling alleep during the operation. The experiment having continued for an hour and nineteen minutes without interruption, and for the greater part by the application of the hands, fhe was fenfible to nothing but a fenfation of irritation and dejection. These two fubjects underwent the experiment only once. M. R-, whofe diftemper was the remainder of an obstruction in the liver, the confequence of a very violent diforder of that kind ill cured, underwent the operation three times and felt nothing. Madame de B----, feverely attacked with obstructions,

obstructions, underwent the experiment constantly at the fame time with the commissioners, and felt nothing; it is necessary to observe, that she submitted to the magnetism with an extreme tranquility, which originated in the highest degree of incredulity.

Experiments were made at other times upon different subjects, but without the affistance of the bucket. One of the commiffioners, in a violent head-ach, had the operation performed upon him by M. Deflon for half an hour; one of the fymptoms of his diforder was an extreme cold in his feet. M. Deflon brought his foot near that of the patient, the foot was never the warmer, and the head-ach lasted its ordinary term. The patient, having placed himfelf near a fire, obtained from it the falutary effects which heat has conftantly procured him, without experiencing, either during that day or the night following, any effect from the magnetism.

Dr. Franklin, though the weaknefs of his health hindered him from coming to Paris, and affifting at the experiments which were there made, was magnetifed by M. Deflon at his own houfe at Paffy. The affembly was numerous; every perfon who was prefent underwent the operation. Some fick perfons, who had come with M. Deflon, were fubject to the effects of the the magnetifm in the fame manner as at the public procefs; but madame de B_____, Dr. Franklin, his two relations, his fecretary, and an American officer, felt no fenfation, though one of Dr. Franklin's relations was convalefcent, and the American officer had at that time a regular fever.

The experiments we have related, furnish a number of facts, calculated to illustrate, and fit to be compared with each other, and from which the commissioners were at liberty to deduce certain inferences. Of fourteen fick perfons five only appeared to feel any effect from the operation, nine felt no effect at all. The commissioner. who had the head-ach and coldness in the feet, derived no benefit from the magnetifm, nor did his feet recover their natural heat. This agent has not therefore the property which has been attributed to it of communicating heat to the feet. The magnetism has also been faid to have the property of difcovering the fpecies, and particularly the feat of difeafes, by the pain, which the action of this fluid infallibly occasions in that part. Such an advantage would be of great confequence; the fluid which was the inftrument of it would be a valuable means in the hands of the phyfician, often deceived by equivocal fymptoms: but François Grenet felt no fenfation, no pain, but in the eye leaft affected. E

affected. If the redness and tumour of the other eye had not furnished external symptoms, in judging from the effect of the magnetifm we fhould have been led to conclude that it was undiftempered. M. R----- and madame de B-----, both attacked with obstructions, and madame de B—— with great feverity, as they were. confcious to no fenfation, would have received no intelligence, either respecting the fpecies, or the feat of their difeafe. And yet obstructions are among the diforders, which are faid to be particularly fubject to the action of the magnetism; fince according to the new theory the free and rapid circulation of this fluid through the nerves, is a means of opening the channels and deftroying the obstacles, that is, the obstructions, which it encounters in its paffage. It is at the fame time faid that the magnetism is the touchstone of health : if therefore M. R---- and madame de B----- had not experienced the derangements and the fufferings infeparable from obstructions, they would have had a right to believe that they enjoyed the best health in the world. The fame thing may be faid of the American officer: the magnetifm therefore announced as the difcoverer of difeafes completely failed of its effect.

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The heat that M. M---- felt in the patella, is an effect too flight and fugitive to authorife any conclusions. It may be fuspected that it proceeded from the cause already defcanted on, a too great attention to observe what passes within us : the fame attention would difcover fimilar fenfations at any other time, when the magnetism was not employed. The drowfinefs experienced by madame de V----- must undoubtedly be afcribed to the regularity and fatigue of preferving the fame fituation; if the was fentible to any vaporous emotion, it must be remembered that it is a known property of nervous affections, to have much dependency upon the attention. that is paid them; to renew them it is only neceffary to hear them fpoken of, orto think of them. It is easy to judge what ought to be expected from a woman, whofe nerves are extremely irritable, and who, being magnetifed for an hour and nineteen minutes, had during that timeno other fubject of reflection than that of the diforders which are habitual to her. She might have had a nervous crifis more confiderable than that we have defcribed, without our having a right to be furprifed at 'it.

There remains then only the effects produced upon dame Charpentier, François Grenet and Jofeph Ennuyé, which E 2 can can be supposed to derive from the operation of the magnetism. In comparing these three particular facts to the rest, the commissioners were assonished that three fubiects of the lower class should be the only ones who felt any thing from the operation, while those of a more elevated rank, of more enlightened understandings, and better qualified to defcribe their fenfations, have felt nothing. Without doubt François Grenet experienced a pain and a watering in the eye when the thumb was approached very near to it; dame Charpentier complained, that in touching her ftomach the preffure corresponded to her rupture; and the preffure might have been in part the caufe of what she felt; but the commissioners suspected that these sensations were augmented by moral caufes.

Let us represent to ourfelves the fituation of a person of the lower class, and of confequence ignorant, attacked with a distemper and defirous of a cure, introduced with some degree of ceremony to a large company, partly composed of physicians, where an operation is performed upon him totally new, and from which he perfuades himself before hand that he is about to experience prodigious effects. Let us add to this that he is paid for his compliance, that he thinks he shall contribute more to our fatisfaction by professing to experience experience fenfations of fome kind; and we shall have definite causes to which to attribute these effects; we shall at least have just reason to doubt whether their true cause be the magnetism.

Befide this it may be enquired, why the magnetifm produced these effects upon perfons, who knew what was done to them, and might imagine they had an interest in faying what they faid, while it took no fort of hold upon the little Claude Renard, upon an organifation endowed with all the delicacy of infancy, fo irritable, fo fufceptible? The found understanding and ingenuous temper of this child evince the veracity of his relation. Why too has this agent produced no effect upon Geneviève Leroux, who was in a perpetual state of convultion? Her nerves were certainly fufficiently irritable, how comes it that the magnetifm did not difplay its power, either in augmenting, or diminishing her convultions? Her indifference and impaffibility induced the belief, that the reafon of her having felt nothing, was the idiotifm which did not permit her to judge that the ought to have felt any thing.

From these facts the commissioners are at liberty to observe, that the magnetism has seemed to have no existence for those subjects, who have submitted to it with any degree of incredulity; that the com-E 3 missioners, miffioners, even those who have their nerves most irritable, having expressly turned their attention to other objects, and having armed themfelves with that philofophic doubt which ought always to accompany enquiry, have felt none of those fenfations, which were experienced by the three patients of the lower class; and they have a right to fuspect that these sensations, fuppofing their reality, were the fruits of anticipated perfuasion, and might be operated by the mere force of imagina-Of this fuspicion another class of tion. experiments has been the refult. Their fubsequent refearches were directed towards a new object; it was necessary to destroy or confirm the fufpicion they had formed, to determine to what degree the power of the imagination can influence our fenfations, and to demonstrate whether it can be the caufe, in whole or in part, of the effects attributed to the magnetifm.

At this time the commiffioners heard of the experiments, which were made at the houfe of M. the dean of the faculty by M, Jumelin, doctor of phyfic; they were defirous of feeing thefe experiments, and they met M. Jumelin in a body at the houfe of M. Majault, one of the commiffioners. M. Jumelin declared to them that he was a difciple neither of M. Mefmer, nor of M. Deflon; he had learned nothing

nothing respecting the animal magnetism from them, but had formed his principles and digested his process from what he had heard upon the fubject in converfation. His principles confift in regarding the animal magnetic fluid, as a fluid which circulates in the human body, and which flows from it, but which is effentially the fame with the principle of animal heat; like all other fluids he conceived that it tended to an equilibrium, and that it therefore paffes from the body in which the greatest quantity of it refides, into that which has the leaft. His method does not differ from that of meflieurs Mefmer and Deflon lefs than his principles; like them he performs the operation with the finger and the rod of iron as conductors, and by the application of the hands, but without any distinction of poles.

Eight men and two women fubmitted to the operation in the first experiment, and felt nothing; at length a woman, who waits in the hall of M. Alphonse le Roy, doctor of physic, having been magnetifed in the forehead, but without touching her, faid that she felt the fensation of heat. M. Jumelin guiding his hand, and prefenting the five extremities of his singers over the whole of her face, she faid that the felt as it were a flame, that passed from place to place; magnetifed in the stomach

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fhe faid that fhe felt heat; magnetifed upon the back fhe made the fame declaration: fhe alfo faid that fhe felt hot in every part of her body, and that her head ached.

The commissioners, observing that, of eleven perfons that underwent the experiment, one only had been fenfible to the magnetism of M. Jumelin, were of opinion that this perfon had experienced certain fenfations, only because she had probably an imagination more eafily excited than the reft : the opportunity was favourable for clearing up the point. The fenfibility of this woman being perfectly eftablished, the business was only to protect her from the illusions of the imagination, or at least to leave her imagination without any thing to direct its operations, The commissioners proposed to blindfold her, in order to obferve what her fenfations would be, when the could no longer know any thing respecting the conduct of the experiment. She was accordingly blindfolded and magnetifed; the phenomena no longer answered to the places towards which the magnetifm was directed. Magnetifed fucceffively upon the ftomach and in the back, the felt only a heat in her head, a pain in both eyes and in the left ear.

The bandage was removed from her eyes, and M. Jumelin having applied his hands hands upon the hypochonders, fhe faid that fhe felt heat; after a few minutes fhe faid that fhe was ready to faint, and fhe fainted in effect. When fhe was tolerably recovered, the experiment was refumed, fhe was blindfolded, M. Jumelin was removed, filence recommended, and the woman was induced to believe that the operation was performing. The effects were the fame, though no operation, either near or diftant was performed; fhe felt the fame heat, the fame pain in her eyes and in her ears; befides which fhe felt a heat in her back and loins.

After a quarter of an hour, a fign was made to M. Jumelin to magnetife her in the ftomach, the felt no fentation; in the back, it was the fame thing. The fentations diminished instead of augmenting. The pains in her head continued, the heat in her back and loins ceased.

We fee in this inftance certain effects produced, and thefe fimilar to thofe which were experienced by the three fubjects, refpecting whom the experiment has already been detailed. But the former and the latter were obtained in different methods; it follows that this difference is of no confequence. The process of meffieurs Mefmer and Deflon, and an opposite process have produced the fame phenomena. The diffinction of poles is therefore chimerical.

It may be observed that while the woman was permitted to fee the operation, fhe placed her fenfations precifely in the part towards which it was directed; that on the other hand when she did not see the operation, the placed them at hazard, and in parts very diftant from those which were the object of the magnetifm. It was natural to conclude that these fensations, real or pretended, were determined by the imagination. Of this we were convinced when we faw that being entirely at reft, the preceding fenfations having ceafed, and the bandage being fixed over her eyes, this woman experienced all the fame effects, though no operation was performed; but the demonstration was complete, when after a remiffion of a quarter of an hour, her imagination being undoubtedly cooled and worn down, the effects, in the room of augmenting, diminished at the moment in which the operation was actually renewed.

If the was feized with a faintnefs, women are fometimes liable to this accident from their garments being tight or otherwife burdenfome. The application of the hands upon the hypochonders was capable of producing the fame effect upon a woman extremely fufceptible; but there is no need of having recourfe to this caufe to explain the appearance. The weather weather was extremely hot, the woman had unqueftionably felt fome emotion in the beginning of the experiment, fhe had made an effort upon herfelf to fubmit to a new and unknown operation, and it is by no means extraordinary that an effort, continued for a longer time than the conftitution will bear, fhould occafion a propenfity to faint.

This fwoon had therefore a natural known cause, but the sensations, which fhe experienced when no operation was performed upon her, could be only the refult of imagination. In fimilar experiments, which M. Jumelin made in the fame place the next day, the commissioners being present, upon a man who was blindfolded, and upon a woman who was not blindfolded, the refult was precifely the fame; it was evident their answers were determined by the queftions that were put to them, that is, the queftion pointed out where the fenfation was expected to be; in the room of directing the magnetifm upon them, all that was done was the exalting and directing their imagination. A child of five years of age being afterwards magnetifed, felt nothing but the heat which he had just before contracted at play.

These experiments appeared fufficiently important to the commissioners, for them

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to defire a repetition of them, in order to obtain further light into the fubject, and M. Jumelin had the complaifance to comply with their requeft. It would be to no purpofe to object, that the method of M. Jumelin was a bad one; for at the prefent moment it was not propofed to bring the magnetifm, but the imagination to the proof.

The commissioners agreed to blindfold fubjects who had already undergone the magnetical operation, for the most part not to magnetife them at all, but to put to them interrogations, fo framed as to point out to them their answers. This mode of proceeding was not calculated to deceive them, it only mifled their imagination. In reality, when no operation was performed upon them, their fole anfwer ought to have been, that they felt no fenfation; and when the operation was performed, the imprefiion they felt, not the manner in which they were interrogated, ought to have dictated their replies.

The committioners adjourned themfelves to the house of M. Jumelin; they began with an experiment upon his fervant. They fixed a bandage over his eyes, prepared for the purpose, and which they employed in all the succeeding experiments. The bandage was made of two calottes of elastic gum, whose concavity was filled with edredon;

edredon; the whole inclosed and fown up in two pieces of stuff of a circular form. These pieces of stuff were then fastened to each other, and to two ftrings which were tied in a knot at the back part of the head. Placed over the eyes, they left in their interval room for the nofe, and the entire liberty of refpiration, without the perfon blindfolded being permitted to receive even the fmallest particle of light, either through, or above, or below the bandage. These precautions having been contrived, with an equal view to the convenience of the fubject, and the certainty of the refult, the fervant of M. Jumelin was perfuaded that the operation was performing upon him. Upon this he felt an almost universal sensation of heat, and certain emotions in the region of the belly, together with an extreme heavinefs; by degrees he grew drowfy and appeared upon the point of falling afleep. This experiment proves what we have already faid, that the fymptom of drowfinefs is the effect of fituation and wearinefs, not of the magnetifm.

The fame perfon being afterwards magnetifed with his eyes uncovered, and a rod of iron being prefented to his forehead, he experienced fenfations of pricking : the bandage being then replaced and the circumftance repeated, he was confcious to no fenfation. The rod of iron was then removed, and the patient being interrogated if he felt nothing in his forehead, he declared that he felt fomething move backward and forward from one fide of it to the other.

M. B----, a man of learning, and particularly acquainted with the fcience of medicine, was then blindfolded, and prefented us with the fame fpectacle, feeling certain fensations when he was not acted upon, and often feeling nothing when the operation was performed. These sensations went to fuch a length, that, previoufly to the being magnetifed in any manner, but believing that the operation had been performing for ten minutes, he felt a heat in his loins which he compared to that of a stove. It is evident that M. B----- had a very ftrong fenfation, fince, in order to convey an idea of it, he thought it neceffary to have recourfe to fuch a comparison; this fensation however he owed folely to imagination, which was the only agent concerned in the affair.

The commissioners, particularly those of the faculty of medicine, made an infinite number of experiments upon different subjects, whom they either magnetised themfelves, or persuaded that they underwent the operation. They performed the operation indifferently, either opposite to, or 6 in in the direction of the poles or at right angles with them, and in each cafe obtained the fame effects; experiencing in all thefe experiments no other difference, than that of an imagination more or lefs fufceptible*. They

* M. Sigault, doctor of the faculty of Paris, well known for his invention of the operation of the fymphyfis of the offa pubis, made a number of experiments, tending to prove that the magnetism is merely an imaginary power. The following is the detail which he made in a letter, dated July the 30th, 1784, and addreffed-toone of the commissioners.

" Having given the perfons who inhabited a large " house in the Marais, to understand that I was a pupil " of M. Meimer, I produced various effects upon the " woman of the house. The magisterial tone and the " ferious air I affected, together with certain gestures, " made a very great imprefiion upon her, which fhe " at first was defirous to conceal from me; but having " guided my hand upon the region of the heart, I felt " that it palpitated. The flate of oppression in which " fhe appeared likewife indicated a contraction of the " cheft. Other fymptoms were connected with thefe; " her face became convulfed, her eyes wandered, fhe " at length fell into a fwoon, then threw up her dinner, " had feveral ftools, and was reduced to a ftate of. " weaknefs and finking, perfectly incredible. I re-" peated the fame trick upon feveral perfons, and fuc-" ceeded more or lefs, according to their different. " degrees of fenfibility and credulity.

"A celebrated artift, mafter of defign to the chil-"dren of one of our princes, complained for feveral "days of an extreme head-ach; he acquainted me "with it upon the Pont-royal; having perfuaded him "that I was initiated in the myfteries of M. Mefmer, "I expelled his head-ach almost inftantaneously by the "means of a few gestures, to his great astonishment.

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They were therefore convinced that the imagination alone is capable of producing

" I produced the fame effects upon the apprentice of " a hatter in the fame diffemper. The lad felt nothing " in confequence of my first gestures; I then laid my " hand upon his falle ribs, bidding him at the fame time " look in my face. He immediately felt a contraction " of the cheft, palpitations of the heart, yawnings, and " an extreme dejection. He doubted no longer of the " power I poffeffed over him. I then guided my finger " over the part affected, and asked him what he felt. " He replied that his pain diflodged itfelf and defcended. " I affured him that I would guide it towards his arm, " and make it come out at his thumb, at the fame time " fqueezing it with confiderable force. He took me " at my word, and was perfectly well for two hours. " At that period he ftopped me in the ftreet to tell me " that his pain was returned. This effect feems to be " the fame with that produced by certain dentifts upon " the mental faculties of those, who go to them to have a " tooth drawn.

"Further laftly, being in the parlour of a convent, "rue du Colombier, fauxbourg Saint Germains, a "young lady faid to me: I underftand, fir, that you are a pupil of M. Meßmer. I am fo, replied I; and I can perform the magnetical operation upon you, notwithftanding the intervention of the grate. At the fame time I prefented my finger; fhe was terrified, trembled extremely, and befought me for God's fake to proceed no farther. Her emotion was fuch, that, if I had perfevered in my experiment, fhe would infallibly have fallen into convultions."

M. Sigault relates that he had himfelf felt the power of imagination. One day, the operator having undertaken to perform upon him the magnetical operation to convince him of its reality, at the moment he had determined to touch him, he felt a contraction of the cheft, and a palpitation of the heart. But having immediately composed himfelf, the gestures and the process of the magnetism were employed in vain, and made no impression upon him.

various

various fenfations, and caufing the patient to experience both pain and heat, and even a very confiderable degree of heat, in all parts of the body, and they concluded that it of course entered for a confiderable share into the effects attributed to the animal magnetifm. It must at the fame time be admitted, that the process of the magnetism produces in the animated body changes more diffinguished, and derangements more confiderable, than those we have just re-None of those subjects, whom ported. we have hither to defcribed as the imaginary objects of the magnetical operation, were fo far impressed as to produce convulsions; it was therefore a new fubject for the experiments of the commissioners, to enquire, whether by the mere energies of the imagination it were poffible to produce crifes, fimilar to those which we have stated in the public process.

Many experiments were thought of for the decifion of this queftion. When a tree has been touched according to the principles and method of the magnetifm, every perfon who ftops under it, ought to experience in a greater or lefs degree the effects of this agent; there have even been fome in this fituation who have fwooned, or experienced convulfions. We communicated our ideas upon this fubject to M. Deflon, who replied, that the experiment F ought

ought to fucceed, provided the fubject were extremely fufceptible; and it was agreed that it should be made at Passy in the prefence of Dr. Franklin. The neceffity that the fubject should be fusceptible, led the commissioners to conceive, that to render the experiment decifive and unanfwerable, it was neceffary that it fhould be made upon a person of M. Deflon's choice, and of whole fusceptibility to the operations of the magnetism he was already convinced. M. Deflon therefore brought with him a boy of about twelve years of age; an apricot tree was fixed upon in the orchard of Dr. Franklin's garden, confiderably distant from any other tree, and calculated for the prefervation of the magnetical power which might be impreffed upon it. M. Deflon was led thither alone to perform the operation, the boy in the mean time remaining in the house, and another perfon along with him. We could have wished that M. Deflon had not been prefent at the fubfequent part of the experiment, but he declared that he could not answer for its success, if he did not direct his cane and his countenance towards the tree, in order to augment the action of the magnetifm. It was therefore refolved, that M. Deflon should be placed at the greatest possible distance, and that fome of the commissioners should stand between

tween him and the boy, in order to afcertain the impracticability of any fignals being made by M. Deflon, or any intelligence being maintained between them. These precautions in an experiment the effence of which must be authenticity, are indispensible, without giving the person with respect to whom they are employed a right to think himself offended.

The boy was then brought into the orchard his eyes covered with the bandage, prefented fucceflively to four trees upon which the operation had not been performed, and caufed to embrace each of them for the fpace of two minutes, the mode of communication which had been prefcribed by M. Deflon himfelf.

M. Deflon, prefent, and at a confiderable diftance, directed his cane towards the tree which had been the object of his operations.

At the first tree the boy being interrogated at the end of a minute, declared that he perspired in large drops; he coughed, spit, and complained of a slight pain in his head; the distance of the tree which had been magnetised was about twenty seven feet.

At the fecond tree he felt the fendations of flupefaction and pain in his head; the diftance was thirty fix feet.

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At the third tree the ftupefaction and head-ach increased confiderably; he faid that he believed he was approaching to the tree which had been magnetised; the diftance was then about thirty eight feet.

In fine at the fourth tree which had not been rendered the object of the operation, and at the diftance of about twenty four feet from the tree which had, the boy fell into a crifis; he fainted away, his limbs fliffened, and he was carried to a neighbouring grafs-plot, where M. Deflon haftened to his affiftance and recovered him.

The refult of this experiment is entirely contrary to the theory of the animal magnetifm. M. Deflon accounted for it by obferving, that all the trees by their very nature, participated of the magnetifm, and that their magnetism was beside reinforced by his prefence. But in that cafe a perfon fenfible to the power of the magnetism, could not hazard a walk in a garden without the risk of convulsions; an affertion confuted by the experience of every day. The prefence of M. Deflon had no greater influence here, than in the coach, in which the boy came along with him, was placed opposite to him, and felt nothing. If he had experienced no fenfation even under the tree which was magnetifed, it might have been faid that at least upon that day he

he had not been fufficiently fufceptible: but the boy fell into a crifis under a tree which was not magnetifed; the crifis was therefore the effect of no phyfical or exterior caufe, but is to be afcribed folely to the influence of imagination. The experiment is therefore entirely conclusive: the boy knew that he was about to be led to a tree upon which the magnetical operation had been performed, his imagination was ftruck, it was exalted by the fucceflive fteps of the experiment, and at the fourth tree it was raifed to the height neceffary to produce the crifis.

Other experiments were made calculated to fupport this, and the refult was the fame. One day when the commissioners were all together at Paffy at the house of Dr. Franklin, and M. Deslon with them, they previously intreated the latter to bring fome of his patients with him, felecting those of the lower class, who were most fusceptible to the magnetism. M. Deslon brought two women; and while he was employed in performing the operation upon Dr. Franklin and several perfons in another apartment, the two women were feparated, and placed in different rooms.

One of them, dame P_{---} , had films over her eyes; but as fhe could always fee a little, the bandage already defcribed was employed. She was perfuaded that M. F 3 Deflon Deflon had been brought into the room to perform the magnetical operation; filence was recommended; three commissioners were prefent, one to interrogate, another to make minutes of the transaction, and the third to perfonate M. Deflon. The conversation was pretended to be addressed to M. Deflon; he was defired to begin the operation; the three commissioners in the mean time remained perfectly quiet and folely occupied in obferving her fymptoms. At the end of three minutes the patient began to feel a nervous shuddering; she had then fucceffively a pain in the back of her head, in her arms, a creeping in her hands, that was her expression, she grew ftiff, ftruck her hands violently together, role from her feat, stamped with her feet: the crifis had all the regular fymptoms, Two other commissioners, who were in the adjoining room with the door fhut, heard the ftamping of the feet and the clapping of the hands, and without feeing any thing were witneffes to this noify experiment.

The two commiffioners we have mentioned were with the other patient, mademoifelle B——, who was fubject to neryous diffempers. No bandage was employed upon her, but her eyes were at liberty; fhe was feated with her face towards a door which was flut, and perfuaded

fuaded that M. Deflon was on the other fide, employed in performing upon her the magnetical operation. This had fcarcely taken place a minute, before the began to feel the fymptom of fhuddering; in another minute she had a chattering of the teeth and an universal heat; in fine in the third minute the fell into a regular crifis. Her respiration was quick, she stretched out both her arms behind her back, twifting them extremely, and bending her body forward: her whole body trembled; the chattering of her teeth became fo loud that it might be heard in the open air; fhe bit her hand, and that with fo much force, that the marks of the teeth remained perfectly visible.

It is proper to observe that neither of thefe fubjects were touched in any manner; their pulse was not even felt, that it might not be poffible to fay that the magnetic fluid was communicated; the crifes however were complete. The commiffioners, who had been defirous to know the effect of the influence of the imagination, and to appreciate the fhare it might have in the magnetical crifes, had now obtained all that they defired. It is impoffible to fee this influence difplayed in a clearer or more incontrovertible manner than in these two experiments. If the fubjects have declared that their crifes were F 4. ftronger

ftronger in the public treatment, it must be ascribed to the power of communication possessed by the numerous emotions, and that in general every individual symptom has been increased by the contemplation of similar symptoms.

We had occafion to try a fecond experiment upon dame P----, and to experience how much she was under the dominion of her imagination. The experiment of the magnetic bason was propoled : this experiment confifts in difcovering among a number of bafons one that has been magnetifed. They are fucceffively prefented to a patient fusceptible to the magnetifm; he ought to fall into a crifis, or at least to experience fensible effects, when the magnetic bafon is prefented to him, he ought to be perfectly indifferent to all the reft. All that was necessary according to the recommendation of M. Deflon, was to prefent them to him in the direction of the poles, in order that he who prefents the bason may not himself magnetife the patient, and that there may be no other effect than that of the magnetifin of the bason itself.

Dame P—— was fent for to the arfenal to the houfe of M. Lavoifier, where M. Deflon was; fhe began with falling into a crifis in the anti-chamber, before fhe had feen either the commissioners or M. Deflon, and and merely from the knowledge fhe had that fhe was about to fee him; a diftinguished effect of the influence of imagination.

When the had been tolerably recovered, fhe was led into the room deftined for the experiment. Several china bafons were prefented to her which had not been magnetifed; at the fecond bason she began to feel the usual fymptoms, and at the fourth fell into a complete crifis. It may be objected that her actual flate was a flate of crifis, that it had begun in the anti-chamber, and was renewed by its own fingle energy; but a circumstance which is decifive, is that having asked for fomething to drink, the bafon which had been magnetifed by M. Deflon himfelf was prefented to her; the drank with perfect calmnefs and faid that she felt herself much better. The bafon and the magnetism had therefore failed of their effect, fince the crifis was tranquilized in the room of being augmented.

Some time after, while M. Majault examined the films fhe had over her eyes, the magnetic bafon was prefented to the back of her head, and continued there for twelve minutes; fhe was unconfcious of the operation and felt no effect from it; fhe had even at no time been more tranquil, becaufe her imagination was diverted, and fixed fixed upon the examination that was making into the diforder of her eyes.

The commissioners were informed that while this woman had been left alone in the anti-chamber, different perfons unacquainted with the animal magnetifm had approached her, and the convultive emotions had recommenced. She was defired to obferve that the magnetical operation was not performed upon her; but her imagination was struck to such a degree that the replied: If you did nothing to me, I should not be in the condition in She knew that fhe had been which I am. fent for in order to be made the fubject of the experiments; and the approach of any perfon towards her, or the flightest noise attracted her attention, excited the idea of the magnetism and renewed her convultions.

The imagination, in order to its acting with confiderable ftrength, has often need that you fhould touch feveral cords at a time. It has a correspondence with each of the fenfes; and its reaction may be expected to be in proportion, both to the number of fenfes applied to, and of fenfations received: the commissioners were led to this observation by the following experiment. M. Jumelin had spoken to them of a young lady, twenty years of age, whom he had deprived of the faculty of speech fpeech by the influence of the magnetism; the commissioners repeated the experiment at his house, the young lady confented to fubmit to it, and to suffer herself to be blindfolded.

The first object of the experiment was to endeavour to obtain the fame effect without performing the operation; but, though in this fituation fhe felt or believed fhe felt the effects of the magnetism, we were not able to strike her imagination, with the force that was neceffary for the fuccess of the experiment. The operation was then really performed, the bandage not being removed; and the fuccefs was the fame. The bandage was then taken away; her imagination was now attacked at once through the different channels of fight and hearing, and the effects were more confiderable; but though fhe complained of a heaviness in her head, an obstruction in the fuperior part of the noftrils, and a number of the fymptoms which fhe had felt under the operation of M. Jumelin, fhe did not lofe the faculty of fpeech. She observed herself, that the hand by which fhe was magnetifed in the forehead, ought to defcend to the level of the nofe, recollecting that that was its fituation at the time in which the had felt the lots of her voice. What she demanded was accordingly performed, and in three quarters of a mi-2

a minute she was dumb; nothing was now to be heard from her but low and inarticulate founds, though the exertion of the muscles of the throat for the formation of found, and that of the tongue and the lips in order to articulation were visible. This state lasted only a minute : it is obvious to obferve that, finding herfelf precifely in the fame circumftances, the feduction of the understanding and the effect of that feduction upon the organs of fpeech were the fame. But it was not enough that fhe fhould be expressly informed that the was magnetifed, it was also neceffary that the sense of seeing should yield her a teftimony, ftronger, and capable of greater effects; it was necessary that a gefture with which the was already acquainted should re-excite her former ideas. It should feem that this experiment is admirably calculated to difplay the manner in which the imagination acts, the degrees by which it is exalted, and the different exterior succours it requires in order to its difplaying itfelf in its greateft energy.

The power, which the fense of fight exercises over the imagination, explains the effects attributed by the doctrine of the magnetism to the eyes. The eyes possible in an eminent degree the power of magnetising; figns and gestures, as the comcommissioners were informed, have commonly no effect, except upon a fubject who has been previously mastered by the employment of the eyes. The reason of this is very fimple; it is the eyes that convey the most energetic expressions of paffion, it is in them that is developed all that the human character has of the commanding or the attractive. It is natural therefore that the eyes should be the source of a very high degree of power; but this power confifts merely in the aptitude they poffefs of moving the imagination, and that in a degree more or lefs ftrong in proportion to the activity of the imagination. It is for this reason, that the whole procefs of the magnetifm commences from the eyes of the operator; and their influence is fo powerful and leaves traces fo ftrong and lively, that a woman, newly arrived at the house of M. Deslon, having encountered a look of one of his pupils, who had performed the operation upon her, just as the was recovering from а crifis, had her eyes fet in her head for three quarters of an hour. For a long time the was haunted with the remembrance of this look; fhe always faw before her this very eye fixed to regard her; and fhe bore it uninterruptedly in her imagination fleeping as well as waking for three days. We fee from this inftance what an imagination is

is capable of doing, that can preferve one imprefiion for 10 long a time, that is, can renew, of itfelf, and by its fingle power, the fame fenfation regularly and without interruption, for three days.

The experiments, which we have already reported, are uniform in their nature, and contribute alike to the fame decifion; they authorife us to conclude that the imagination is the true caufe of the effects attributed to the magnetism. But the partifans of this new agent will perhaps reply, that the identity of effects does not always prove an identity of caufes. They will grant that the imagination is capable of exciting these impressions without the magnetifm; but they will maintain that the magnetism is also capable of exciting them without the imagination. The commissioners might easily deftroy this affertion by applying the principles of all reafoning, and the laws of natural philosophy: of which the first, is to admit no new caufes without an abfolute neceffity. When the effects observed are capable of having been produced by a known caufe, and a caufe whofe exiftence other phenomena have already eftablished, found philosophy teaches that the effects ought to be afcribed to that caufe; and when on the other hand we are acquainted with the difcovery of a caufe hitherto

hitherto unknown, found philosophy requires that its existence be made out by which do not belong to effects. a known cause, and which cannot he explained but by the new caufe. It therefore properly belongs to the partifans of the magnetism, to bring forward other proofs, and to difcover effects which shall be entirely stripped of the illusions of the imagination. But as facts are more demonstrative than reafonings, and as their evidence is more univerfally striking, the commissioners have been defirous of establishing by experiment, what the magnetifm could do in cafes where the imagination had no concern.

For this experiment they made choice of two rooms, contiguous to each other, and united by a door of communication. The door was taken away, and a frame of wood fubstituted in its place, with tranfverse bars, and covered with a double texture of paper. In one of these rooms was a commissioner, who undertook to make minutes of the transaction, and a lady, who was given out to be just arrived from the country, and to have a fuit of linen, which the wanted to have made up. Mademoifelle B---, a fempftrefs by profeffion, who had been already employed in the experiments at Paffy, and whole fenfibility to the magnetifin was well known,

known, was fent for. Every thing was arranged againft her arrival in fuch a manner, that there was but one feat upon which fhe could place herfelf, and that feat ftood within the frame of the door of communication.

The commissioners were in the other apartment, and one of them, a physician, who had upon former occasions performed the magnetical operation with fucces, had undertaken to magnetise mademoiselle B—— through the paper partition. It is a principle in the theory of the magnetism that this agent passes through doors, walls, &c. A partition of paper could therefore be no obstacle; beside M. Desson had positively declared that the magnetism passes through paper.

Mademoifelle B—— was accordingly magnetifed during half an hour, at the diftance of a foot and an half, and in a direction oppofite to that of the poles, in conformity to the rules taught by M. Deflon, and which the commissioners had feen practifed at his houfe. During the operation she conversed with much gaiety, and, in answer to an enquiry concerning her health, she readily replied, that she was perfectly well : at Passy she had fallen into a crisis in the course of three minutes; in the present instance she underwent the operation of the magnetism without any effect effect for thirty minutes. The only reafon of this difference must be that here she was ignorant of the operation, and that at Passy she thought it had been performed. The inevitable conclusion is, that the imagination fingly produces all the effects attributed to the magnetism, and that, where the imagination ceases to be called forth, it has no longer the solution for the solution.

Only one objection can be fuggefted to this experiment; it is that mademoifelle B---- might not be prepared to receive the magnetic fluid, and might be lefs fuf-The ceptible to its operation than usual. commissioners forefaw this objection, and for that reafon made the following experiment. As foon as they had ceafed to magnetife the patient through the paper partition, the fame commissioner passed into the other apartment; he found no difficulty in engaging mademoifelle Bto fubmit to the magnetical operation. It was accordingly repeated in precifely the fame manner as in the former inftance, at the diftance of a foot and an half, and by the intervention of gestures only, together with the employment of the right finger and the rod of iron. If he had applied the hands, and touched the hypochonders, it might have been objected that any difference of effect, was to be afcribed to the application having been more immediate in the G

In three minutes however the felt a fensation of dejection and fuffocation; to these fucceeded an interrupted hiccup, a chattering of the teeth, a contraction of the throat, and an extreme pain in her head; the was reftlefs in her chair; the complained of a pain in the loins; now and then the struck her foot with extreme quickness on the floor; afterwards she ftretched her arms behind her, twifting them extremely as at Paffy; in a word the convultive crifis was complete and accomparied with all the regular fymptoms. All these accidents appeared in consequence of a process of twelve minutes, though the fame process employed for thirty minutes a little before had been ineffectual. The only ground of difference that remains, is the play that was afforded in the latter inftance to the imagination; to this theretherefore the difference of the effects is to be afcribed.

If the crifis originated in the influence of the imagination, it was the imagination alfo that put a ftop to it. The commiffioner who magnetifed her, observed that it was time to have done; at the fame time prefenting to her his two forefingers in the form of a crofs; and it is proper to observe that in so doing he magnetised her in the direction of the poles, in the fame manner as he had done through the whole experiment; no actual alteration had therefore been made, and the process being continued, the impreffions ought alfo to have continued. But the declared intention of the operator was fufficient to diffipate the crifis; her heat and the pain in her head were immediately alleviated. The diforder of her frame was in this manner followed from place to place, announcing at the fame time that it was going to difappear. In this manner in obedience to the voice to which the imagination was fubjected, the contraction of the throat ceased, then the accidents of the breaft, laftly those of the ftomach and the arms. The whole required only three minutes; after which mademoifelle B---- declared that fhe no longer felt any fenfation, but was perfectly restored to her habitual state.

Thefe

Thefe last experiments, as well as feveral of those that were made at the house of M. Jumelin, have the double advantage of demonstrating at once the efficacy of the imagination, and the impotence of the magnetism, in regard of the symptoms which were operated.

If the fymptoms are more confiderable and the crifes more violent at the public procefs, it is becaufe various caufes are combined with the imagination, to operate, to multiply and to enlarge its effects. They begin with fubduing the minds of the patients by the employment of the eyes; this is followed by the touch, the application of the hands; it is proper to develop in this place the phyfical effects of this method of procedure.

The fymptoms are more or lefs confiderable: the lefs are hiccuphings, qualms of the ftomach and purgings; the greater are the convultions to which they have given the denomination of crifes. The parts upon which the touch is employed, are the hypochonders, the pit of the ftomach, and fometimes the ovaria, when the patient is a woman. The hands and the fingers are preffed with a greater or lefs ftrefs upon thefe different regions.

The colon, one of the larger inteffines, runs through both the regions of the hypochonders, and the region of the epigastrium

gastrium which separates them. It is placed immediately under the integuments. It is therefore upon this inteftine that the preffure falls, an inteftine full of fenfibility and irritability. A repeated voluntary effort, without affistance from any other caufe, excites the muscular action of this inteftine, and fometimes procures evacuations. Nature, as it were by inftinct, indicates this manœuvre to perfons hypochondriacally affected. The process of the magnetism is nothing more than this very manœuvre : and the evacuations it is calculated to produce are further facilitated in the magnetical process, by the frequent and almost habitual use of a real laxative, the cream of tartar in their drink.

But while the motion which is produced, excites principally the irritability of the colon, this inteftine offers other pheno-It fwells in a greater or lefs degree, mena. and fometimes distends itself to a confiderable volume. At fuch times it communicates to the diaphragm fuch an irritation, that this organ becomes more or lefs convulfed. It is this convulfion to which they have given the appellation of crifis in the animal magnetifm, One of the commissioners had occasion to see a woman, fubject to a kind of fpafmodic vomitings, with which fhe was feized feveral times in the course of every day. Her G3 efforts

efforts produced nothing but a turbid and viscous water, fimilar to that which is brought up by the patients in the crifis of the magnetical operation. The convulsion had its feat in the diaphragm, and the region of the colon was fo fenfible, that the flightest touch upon that part, a strong commotion of the air, the furprise caufed by a fudden noife fufficed to excite the This woman had therefore convultion. regular crifes without the affiftance of the magnetifm, by the fingle irritability of the colon and diaphragm; and the women who are magnetifed, obtain their crifes from the fame caufe and through the fame irritability.

The application of the hands upon the ftomach has physical effects not lefs remarkable. The application is made directly upon that organ. Sometimes a ftrong continuous compression is operated, fometimes a number of flight and fucceffive compressions, fometimes a discompofure of the ftomach by a rotatory motion of the rod of iron in contact with the part, or by the fucceffive and rapid paffage of the thumbs over it one after the other. These methods convey almost immediately to the stomach an irritation, more or less ftrong and durable, in proportion as the fubject is more or lefs fusceptible. The part is also previously disposed for the reception

ception of this irritation by being first compressed. This compression prepares it to act upon the diaphragm and to communicate to it the imprefions it receives. It is irritated, the diaphragm is also irritated, and from thence refult, in the fame manner as by the action of the colon, the nervous accidents which had been already In women who are peculiarly fufftated. ceptible, the mere compression of the two hypochonders, without their being acted upon in any other manner, occasions a contraction of the flomach and fits of fwooning. This happened in the cafe of the woman magnetifed by M. Jumelin, and it often happens from no other caufe than an improper degree of tightness in their drefs. These cafes are not followed by the crifis, becaufe the ftomach is compreffed, without being irritated, and the diaphragm remains in its natural state. The fame methods employed upon the ovaria in the female fex, befide their particular effects, produce with great force the above accidents. The empire and extenfive influence of the uterus over the animal æconomy is well known.

The intimate connection of the colon, the ftomach and the uterus with the diaphragm is one of the caufes of the effects afcribed to the magnetism. The regions of the lower belly, which are the fubject \mathbf{of}

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of these operations, answer to the different plexuses which constitute a regular nervous centre in this part, by means of which, leaving every particular fystem out of the question, there most certainly exists a sympathy, communication or correspondence between all the parts of the body, such an action and reaction, that the sensations excited in this centre affect the other parts of the body, and reciprocally a senfation experienced in any part affects and calls into play the nervous centre, which often transmits the impression back again to all the parts of the body.

The truth thus stated not only explains the effects of the magnetic touch, but alfo the physical effects of the imagination. It has been constantly remarked, that the affections of the foul make their first corporeal impression upon the nervous centre, which commonly leads their fubject to defcribe himfelf as having a weight upon his stomach, or a sensation of suffocation. The diaphragm enters into this business, from whence originate the fighs, the tears and the expressions of mirth. The viscera of the lower belly then experience a reaction; and it is by this automatous procefs that we are enabled to account for the phyfical diforders produced by the imagination. Surprife occasions the colic, terror causes a diarrhœa, melancholy is the origin of

of icterical diftempers. The hiftory of medicine prefents to us an infinity of examples of the power of imagination and the mental affections. The terror occafioned by a fire, a violent degree of defire, a ftrong and undoubting hope, a fit of choler have reftored the use of his limbs to one who has been crippled with the gout or to a paralytic perfon; a ftrong and unlooked for degree of joy has diffipated a quartan ague of two months flanding; clofe attention is a remedy for the hiccup; and perfons, who by fome accident have been deprived of the faculty of fpeech, have recovered it in confequence of fome of the vehement emotions of the foul. This last affertion is fupported by the testimony of history, and the commissioners have themfelves witneffed a fulpenfion of this faculty, occafioned fingly by the imagination. The action and reaction of the phyfical upon the moral fyftem, and of the moral upon the physical, have been acknowledged ever fince the phenomena of the medical fcience have been remarked. that is, ever fince the origin of the fcience.

Tears, laughter, coughs, hiccups, and in general all the effects which are obferved in what have been ftiled crifes in the animal magnetism, do therefore originate either in the interruption of the functions of the diaphragm by a physical vehicle, such fuch as the touch and the preffure, or from the power with which the imagination is endowed of acting upon this organ and interrupting its functions.

If it be objected that the touch is not always neceffary to these effects, it may be replied, that the imagination may be fufficiently fertile in refources to produce them all by its fole inftrumentality; efpecially the imagination exerted in a public process, called into play at once by the methods in which it is itfelf addreffed, and by the effects observed in those who furround it. It has been already feen what were its effects in the experiments made by the commiffioners upon ifolated fubjects; it may eafily be conceived in what degree those effects must be multiplied in the cafe of a number of patients collected together in a public process. These patients are affembled in a narrow space, if the space be compared with the number of patients; the air of the apartment is heated, although care be employed to renew it; and it is always more or lefs impregnated with mephitic gas, which has the property of acting immediately upon the head and the nervous fystem. When the introduction of mufic is added, it affords another means of acting upon and exciting the nerves.

In

In the public process feveral women are magnetifed at the fame time, and they experience at first no effects but fuch as are fimilar to those, obtained by the commiffioners in various experiments. It is even acknowledged that for the most part the crifes do not commence in lefs than the fpace of two hours. By little and little the impreffions are communicated from one to another, and reinforced, in the fame manner as the imprefiions which are made by theatrical reprefentation, where the impreffions are greater in proportion to the number of the fpectators, and the liberty they enjoy of expressing their sensations. The applaufe, by which the emotions of individuals are announced, occafions a general emotion, which every one partakes in the degree in which he is fufceptible. The fame observation has been made in armies upon a day of battle, where the enthufiasm of courage, as well as the impreflions of terror, are propagated with fo amazing rapidity. The drum, the found of the military mufical inftruments, the noife of the cannon, the mulquetry, the shouts of the army, and the general diforder impress the organs, have a uniform effect upon the understanding, and exalt the imagination in the fame degree. In this equilibrium of inebriation, the external manifestation of a fingle senfation immediately diately becomes univerfal; it hurries the foldiery to the charge, or it determines them to fly. The fame caufe is deeply concerned in rebellions; the multitude are governed by the imagination; the individuals in a numerous affembly are more fubjected to their fenfes, and lefs capable of fubmitting to the dictates of reafon; and where fanaticifm is the prefiding quality, its fruit is the tremblers of the Cevennes*. It has been ufual to forbid numerous

* Marfhal Villars, who was employed in appeafing the troubles of the Cevennes, fays: "I faw things in "this kind, which I fhould not have believed, if they "had not paffed before my eyes; I faw a confiderable town, of which the whole female part without exception appeared to be poffeffed by the devil. They "trembled and prophefied publicly in the ftreets. One had the rafhnefs to tremble and prophefy for an hour together in my prefence. But of all thefe abfurdities the moft furprifing was that, which was related to me by the bifhop of Alais, and which I wrote to M. de Chamillard in the following terms.

" 'A M. de Mandagors, lord of the manor of that name, mayor of Alais, poffeffing the first appointments in the town and county, and having even been for fome time subdelegate to M. de Baville, was the fubject of this relation. He was fixty years of age, temperate in his manners, posseffed of a fine underftanding, and had written and published many performances. Some of them I have read, and, before I knew what I have just learned respecting him, I confidered them as distinguished by a very vigorous imagination.

" 'A prophetefs, aged twenty feven or twenty eight " years, was taken up about eighteen months ago and " carried numerous affemblies in feditious towns, as a means of ftopping a contagion fo eafily

" carried before the bifhop of Alais. He interrogated " her before several ecclesiaftics. The creature, after " having heard what he faid, replied with a modeft air, " exhorted him no longer to torment the true children " of God, and then addreffed him for an entire hour " in an uncouth language of which he could not under-" ftand a word : just as we have formerly feen the duke " de la Ferté, when he had drank a few glasses, talk " English before the inhabitants of that country. - I " have heard them fay, I underftand very well that he " fpeaks English, but I cannot comprehend a word " that he fays. It would have been fomewhat difficult " that they fhould have done fo, for he never knew a " word of English in his life. This girl talked Greek " and Hebrew in the style of the duke de la Ferté.

" 'You will take it for granted that M. d'Alais fent the girl to prifon. After feveral months, the girl appearing to be entirely ridded of her abfurdities by the attention and advice of the fieur de Mandagors, who frequently vifited her in her confinement, fhe was fet at liberty, and the confequence of that liberty, and of the liberties that the fieur Mandagors had taken with her, was an immediate pregnancy.

" But the fact which I was about to relate is the " refignation made by the fieur Mandagors of all " his employments in favour of his fon, at the fame " time faying to feveral individuals, and among others " to the bifhop, that it was by express commission from " God that he had had carnal knowledge of the pro-" phetefs, and that the child which should be born " would be the true faviour of the world. The con-" fequence of all this in any other country than France, " would have been merely the fending M. the mayor " and his fair patroness to bedlam. The bifhop " fuggested to me to have him arrested. I proposed " previously to confer with M. de Bâville, intendant of " the province, ordering in the mean time that he and " the

eafily communicated. Every where example acts upon the moral part of our frame, mechanical imitation upon the phyfical part : the minds of individuals are calmed by differing them ; the fame method puts a ftop to their fpafmodic affections, always contagious in their nature : we have had a recent example of this in the young ladies of Saint Roch, who were in this manner cured of the

" the prophetels fhould be closely watched, fo that they " might not be able to escape. My opinion was, that, " in the midft of a country of madmen, what relates to " a madman of fuch importance ought to make as little " noife as poffible; and that it was therefore neceffary " to endeavour to get him out of the country by gentle " means, and then to take him into cuftody. Your " lordfhip will eafily conceive that to declare publicly " for a prophet a mayor of Alais, the lord of an exten-" five manor, an ancient fubdelegate of the intendant, " an author, and a man hitherto effecemed for his pene-" tration and fagacity, in the midft of a country ac-" cuftomed to venerate and respect him, was a measure " better calculated to revolt the minds of the inhabi-« tants than to correct them. It would the rather " have had this tendency, that, except the folly of be-" lieving that God had commanded him to have carnal " knowledge of this young woman, his conversation is " as full of reason and good sense, as was that of Don " Quixote upon all other fubjects but that of knight-" errantry. M. de Bâville was of my opinion. The " children of M. Mandagors conducted him without " noife to one of his châteaux, where he was con-" fined, and the prophetels taken from him and fent " to prifon." Vie du Maréchal Duc de Villars, tome I. pages 325 and following.

convultions

convultions with which they were affected when together *.

The magnetism then, or rather the operations of the imagination, are equally discoverable at the theatre, in the camp, and in all numerous assemblies, as at the bucket, acting indeed by different means, but producing similar effects. The bucket is furrounded with a crowd of patients; the sensations are continually communicated and recommunicated; it

* On the day of the ceremony of the first communion, celebrated in the parish church of Saint Roch a few years ago (1780), after the evening fervice they made according to cuftom the procession through the freets. Scarcely were the children returned to the church, and had refumed their feats, before a young girl fell ill and had convultions. This affection propagated itfelf with fo much rapidity, that in the space of half an hour fifty or fixty girls from twelve to nineteen years. of age were feized with the fame convultions; that is, with a contraction of the throat, an inflation of the ftomach, fuffocation, hiccups and fpafms more or lefs confiderable. These accidents reappeared in some inftances in the course of the week; but the following Sunday, being affembled with the dames of Sainte Anne, whofe bufinefs it is to teach the young ladies, twelve of them were feized with the fame convultions, and more would have followed, if they had not had the precaution to fend away each child upon the fpot to her relations. The whole were obliged to be divided into feveral fchools. By thus feparating the children, and not keeping them together but in fmall numbers, three weeks fufficed to diffipate entirely this epidemical convullive affection. See for other inftances of the fame kind the Natural Hiftory of Convultions by M. Hecquet.

ought to be expected that the nerves should be at length worn out with this exercife, they are accordingly irritated, and the woman of most fensibility in the company gives the fignal. Immediately the cords, every where ftretched to the fame degree and in perfect unifon, refpond to each other; the crifes are multiplied; they mutually reinforce each other, and àre rendered violent. In the mean time the men, who are witneffes of these emotions. partake of them in proportion to their nervous fenfibility; and those with whom this fenfibility is greateft and most eafily excited become themfelves the fubjects of a crifis.

This propenfity to irritation, partly natural and partly acquired, becomes in each fex habitual. The fenfations having been felt once or oftener, nothing is now neceffary, but to recal the memory of them, and to exalt the imagination to the fame degree, in order to operate the fame effects. This will never be difficult when the fubject is placed in the fame circumstances. The public process is no longer necessary, you have only to touch the hypochonders and to conduct the finger and the rod of iron before the countenance; the figns are well known. Even these are not necessary, it is sufficient that the patients be blindfolded, made to believe that these figns are repeated

repeated upon them, and that they are magnetifed; the ideas are reexcited, the fenfations are reproduced, the imagination, employing its accuftomed inftruments and refuming its former routes, gives birth to the fame phenomena. These cases happen exactly to the patients of M. Deslon, who fall into a crifis without the bucket, and without being excited with the spectacle of the public process.

Compression, imagination, imitation are therefore the true causes of the effects attributed to this new agent, known by the appellation of animal magnetifm, this fluid, which is faid to circulate through the human body, and to be communicated from individual to individual. Such is the refult of the experiments of the commissioners, and the observations they made upon the means employed and the effects produced. This agent, this fluid has no existence. Chimerical however as it is, the idea is by no means novel. Some authors, particularly phyficians of the laft age, have expressly treated of it in various performances. The curious and interesting enquiries of M. Thouret have convinced the public, that the theory, the operations and the effects of the animal magnetism, proposed in the last age, were nearly the fame with those revived in the present. The magnetism then is no more than an old falfhood, Η

falfhood. The theory indeed is now prefented, as was necessary in a more enlightened age, with a greater degree of pomp; but it is not lefs erroneous. Human nature is formed to feize, to quit and to refume the mistake which is flattering to its wifhes. There are errors which will be eternally dear to the fubluinary ftate. How often has the pretended fcience of aftrology vanished and reappeared! The magnetifm is calculated to lead us back to Its professors have been defirous of it. connecting it with the celeftial influences, that it might have the ftronger feduction, and attract mankind by the two hopes that are nearest their heart, that of looking into futurity, and that of prolonging their existence.

There is room to believe that the imagination is the principal of the three caufes which we have affigned to the magnetifm, It appears by the experiments we have related that it fuffices alone to produce the crifes. The preffure and the touch feem to ferve it as preparatives; it is by the touch that the nerves begin to be excited, imitation communicates and extends the impreflions. But the imagination is that active and terrible power, by which are operated the aftonifhing effects, that have excited fo much attention to the public procefs. The effects ftrike all the world, the

the caufe is enveloped in the fhades of obscurity. When we confider that these effects feduced in former ages men; venerable for their merit, their illumination and even their genius, Paracelfus, Van Helmont and Kircher, we ceafe to be aftonished, that perfons of the present day, learned and well informed, that even a great number of physicians have been the dupes of this fystem. Had the commissioners been admitted only to the public process, where there is neither time nor opportunity of making decifive experiments, they might themfelves have been led into It was neceffary to have liberty to error. infulate the effects, in order to diffinguish the caufes; it was neceffary to fee as they have done the imagination act, if we may be allowed the expression, partially, and produce its effects one by one and in detail, to have an idea to what the accumulation of those effects might amount; to conceive the extent of its power, and to account for all its prodigies. Such an examination demanded a facrifice of time, and a number of fystematical refearches, which we have not always the leifure to undertake for our private instruction or private curiofity, nor even the power properly to purfue without being like the commissioners charged with the mandates Ĥ 2 of

of the fovereign, and honoured with the confidence of the public.

M. Deflon is not much averfe to the admiffion of these principles. He declared in our feffion held at the house of Dr. Franklin the 19th of June, that he thought he might lay it down as a fact, that the imagination had the greatest share in the effects of the animal magnetifm; he faid that this new agent might be no other than the imagination itfelf, whole power is as extensive as it is little known: he affirmed that he always acknowledged the concern of this faculty in the treatment of his patients, and he affirmed with equal confidence that many perfons have been either entirely cured or infinitely amended in the state of their health under his direction. He remarked to the commissioners that the imagination thus directed to the relief of fuffering humanity, would be a most valuable means in the hands of the medical profession *; and perfuaded of the

* M. Deflon had already faid in 1780. "Granting "for a moment that M. Mefmer poffeffes no other "fecret than that of employing the imagination in the extensive production of the most falutary effects, will it not fill be true, that his invention is an extremely valuable one? For in reality, if the physic of the imagination be more falutary than the other kinds of medicine, what good reason can be alledged, why the physic of the imagination should not be brought into general use?" Observations on the Animal Magnetism, pages 46 and 47.

reality

reality of the power of the imagination, he invited the commissioners to embrace the opportunity which his practice afforded to ftudy its procedure and its effects. If therefore M. Deflon be still attached to his first idea, that these effects are to be afcribed to the agency of a fluid, which is communicated from individual to individual by the touch or under the guidance of a conductor, he cannot however avoid conceding to the commiffioners that only one cause is requisite to one effect, and that fince the imagination is a fufficient cause, the supposition of the magnetic fluid is ufelefs. It cannot be denied that we are furrounded with a fluid which peculiarly belongs to us; the infenfible perfpiration forms around us an atmosphere of infenfible vapours: but this fluid has no agency but fuch as is common to other atmospheres; cannot be communicated by the touch but in infinitely finall quantities; is not capable of being directed either by conductors, or by the eyes, or by the will; is neither propagated by found, nor reflected by mirrors; and is in no cafe fusceptible of the effects ascribed to it.

It remains for us to enquire, whether the crifes or convultions, excited by the methods of the pretended magnetism in the affemblies round the bucket, be capable of

of any utility, or be calculated to cure or relieve the patients. The imagination of fick perfons has unquestionably a very frequent and confiderable share in the cure of their difeafes. With the effect of it we are unacquainted otherwife than by general experience; but, though it has not been traced in pofitive experiments, it should seem not to admit of a reasonable doubt. It is a known adage, that in physic as well as religion, men are faved by faith; this faith is the produce of the imagination: in these cases the imagination acts by gentle means; it is by diffufing tranquility over the fenfes, by reftoring the harmony of the functions, by recalling into play every principle of the frame under the genial influence of hope. Hope is an effential conftituent of human life; the man that yields us one contributes to reftore to us the other. But when the imagination produces convultions, the means it employs are violent; and fuch means are almost always destructive. There are indeed a few rare cafes in which they may be useful; there are desperate difeafes, in which it is neceffary to overturn every thing for the introduction of an order totally new. These critical shocks are to be employed in the medical art in the fame manner as poifons. It is requifite that neceffity should demand, and æconomy employ

employ them. The need of them is momentary; the flock ought to be fingle, Very far from repeating it, the intelligent phyfician exerts himfelf to invent the means of repairing the indifpenfible evil which has thus been produced; but in the public: process of the magnetism the crifes are repeated every day, they are long and violent. Now fince the ftate introduced by thefe crifes is pernicious, the habit cannot be other than fatal. How indeed can it be conceived, that a woman, attacked for inftance with a pulmonary diftemper, can undergo with impunity a crifis, fome of whofe fymptoms are a convultive cough and compulsory expectorations; or can fafely fatigue, perhaps shatter the lungs by violent and repeated efforts, when fo great pains are neceffary to convey to the wounded frame the fanative and the balfamic? How can we imagine that a man, be his diforder what it will, can need in order to his recovery the intervention of crifes, in which the fight appears to be loft, the members ftiffen, he strikes his breast with precipitate and involuntary motions; crifes in a word, that are terminated by an abundant fpitting of viscous humours and even blood? The blood thus discharged is neither vitiated nor corrupted, it flows from veffels from which it is torn by the violence of effort and contrary to the intention of nature;

nature; these effects are therefore to be regarded as a real not a falutary evil, an evil additional to the distemper be it what it will.

Nor is this the only danger with which they are attended. Man is inceffantly enflaved by cuftom; nature is modified by habit only in a progreffive manner, yet fhe is often to completely modified, as to fuffer an entire metamorphofis, and to be fcarcely capable of being known for the fame. Who will affure us that this state of crifes, at first voluntarily induced, shall not become habitual? And fhould the habit thus contracted frequently reproduce the fame fymptoms, in fpite of the will, and almost without the affiftance of the imagination, how dreadful the fate of an individual, fubjected to fo violent effects, tormented, as well morally as phyfically, with their unfortunate impression, whose days should be divided between apprehenfion and agony, and whofe life should be an uninterrupted ftate of fuffering! Nervous diftempers of this defcription, even when natural, are the opprobrium of the medical fcience; how little ought it to be the object of art to produce them! The art, which thus interferes with all the functions of the animal æconomy, urges nature out of her proper courfe, and multiplies the victims of irregularity, is to be regarded as pernicious.. 1.1

cious. Its effects are the more to be apprehended, fince it not only aggravates the diforder of the nerves by renewing their fymptoms, and caufing them to degenerate into habit; but if a diftemper of this kind be contagious, as it may be fuspected to be; the method of provoking nervous convultions and of exciting them in public affemblies is a means to diffuse them in great towns, and even to afflict with them generations to come, fince the difeafes and the habits of parents are transmitted to their pofterity. Countrastic graduation

The commissioners having convinced themfelves, that the animal magnetic fluid is capable of being perceived by none of our fenfes, and had no action either upon themfelves or upon the fubjects of their feveral experiments; being affured, that the touches and compreffions employed in its application rarely occafioned favourable changes in the animal æconomy, and that the imprefions thus made are always hurtful to the imagination; in fine having demonstrated by decifive experiments, that the imagination without the magnetism produces convultions, and that the magnetifm without the imagination produces nothing; they have concluded with an unanimous voice respecting the existence and the utility of the magnetifm, that the existence of the fluid is absolutely destitute of

of proof, that the fluid having no existence can confequently have no use, that the violent fymptoms observed in the public procefs are to be afcribed to the compreffion, to the imagination called into action, and to that propenfity to mechanical imitation, which leads us in fpite of ourfelves to the repetition of what ftrikes our fenfes. And at the fame time they think themfelves obliged to add as an important obfervation, that the compressions and the repeated action of the imagination employed in producing the crifes may be hurtful, that the fight of these crises is not less dangerous on account of that imitation which nature feems to have imposed upon us as a law, and that of confequence every public process, in which the means of the animal magnetism shall be employed, cannot fail in the end of producing the most pernicious effects *.

Paris,

* If it be objected to the commiffioners that this decifion concludes refrecting the magnetifm in general, inftead of relating fingly to the magnetifm practifed by M. Deflon, the commiffioners reply that the intention of the king was to have their opinion upon the animal magnetifm, and that in confequence they have not exceeded the bounds of their commiffion. Again they reply that M. Deflon has appeared to them acquainted with what are called the principles of the magnetifm, and that he certainly poffeifies the means of producing the effects and exciting the crifes which are afcribed to it.

The

[107] Paris, the 11th day of August, 1784.

(Signed)

B. FRANKLIN, MAJAULT, LE ROY, SALLIN, BAILLY, D'ARCET, DE BORY, GUILLOTIN, LAVOISIER.

The principles of M. Deflon are the very fame with those included in the twenty feven propositions diffeminated from the prefs by M. Melmer in 1779. If M. Mefmer now announces a more extensive theory, it was not neceffary for the commissioners to be acquainted with the theory to decide upon the existence and utility of the magnetifm, it was fufficient to effimate the effects. It is by the effects that the existence of a cause is eftablished, it is by the effects also that its utility must The phenomena are learned from be demonstrated. observation long before we can arrive at the theory which connects and explains them. The theory of the loadstone does not yet exist, and its phenomena are afcertained by the experience of fucceffive ages. The theory of M. Mefmer is in this cafe indifferent and fuperfluous; the methods employed, the effects produced, this is what it was neceffary to examine. Now it is eafy to prove that the effential practice of the magnetifm is known to M. Deflon.

M. Deflon was for many years the pupil of M. Mefmer. Conftantly during that time he faw the procefs of the animal magnetifm, and the means employed in exciting and directing it. M. Deflon himfelf adminiftered the magnetifm in the prefence of M. Mefmer; feparated from him he operated the fame effects. Being afterwards reconciled they united their patients; the one one and the other without diffinction undertook the management of them, and of confequence the methods were the fame. The method which is followed at this day by M. Deflon can be no other than the method of M. Mefmer.

The effects are not lefs correspondent. There are crifes equally frequent, and accompanied by fimilar fymptoms, at the houfe of M. Deflon and at the houfe of M.Meimer; the effects do not therefore belong to the method of an individual, but to the practice of the magnetifm in general. The experiments of the commiffioners demonstrate that the effects obtained by M. Deflon are due to compression, to imagination and to imitation. These are therefore the causes of the magnetifm in general. The obfervations of the commiffioners have convinced them that these convulsive crifes and these violent means cannot be useful in medicine any otherwife than as poifons, and they have judged independent of all theory that wherever it shall be the object to excite convulsions they may become habitual and pernicious, they may be epidemically diffused, and even extend to future generations. An analysis and The commiffioners were of confequence obliged to conclude that not only the measures in a particular

mode of proceeding, but the measures of the magnetifm in general, might in the end produce, the most perpicious effects.

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