## Art and Science．

## ANIMAL MAGNETISM．

£As our readers are，no doubt，desirous to be inform－ d of the manner in which the professors of Anima Magnetism operate on their patients，we subjoin the following description，extracted from a very clever ar－ icle on the science，in a number of the North Ame－ rican Review．］
The mode of producing somnambulism， and all other magnetic effects，are given at great length，in Le instruction practique sur le Maqnétisme animal，par Deleuze，as well as in his Histoire critique．As some of our readers may wish to try the experiment themselves，we have endeavoured to reduce these rulés to as small a compass as possi－ to
＂When any person is desirous of being magnetised，you must make him promise to obey your directions in every particular． and，above all，not to mention his intention of submitting to the operation，to any indi－ vidual．When he has agreed to this，the process may be undertaken，but nobody is to be present，except the necessary witness－ es，and if possible but one of these；who－ ever does attend，must not be allowed to in terfere in the operation or its results．＂
＊Having fixed the person in a commodi－ ous posture，you are to place yourself on a seat a little more elevated than his，and di－ rectly opposite to him，so that your knee and feet may touch．Then take his thumbs between your fingers，in such a manner that his and your thumbs may be applied to each other；you are to remain in this posi－ tion，till you feel that they have acquired an equal temperature．＂
We would remark，that all the authors on animal magnetism，are of opinion，that the action of this fluid is better communicated by the thumbs，than in any other manner．
－The hands are then to be placed on th shoulders，and suffered to remain there two or three minutes，and afterwards gently brought down the arms to the thumbs；thi manbeuvre is to be repeated three or four times．Then the two hands are to be placed over the pit of the stomach，so that the lization of temperature，the hands are to be cloth of any kind at the bnttom of the vessel，larger share of them consists of stars there as never to magnetise from the feet to the head，is verv essential．

This mode of magnetising，is called b the professors of the art，magnétiser à gran－ des courans，and should always be used a the commencement of the treatment；for all the authorities we have consulted，agree that it is dangerous to concentrate the mag－ netism on any one part，particularly in ner vous persons；but，after they are thus uni versally magnetized，you may apply an ad ditional ginantity of this fluid to the disease part．MM．Deleuze and Paységur also giv some very important directions as to the conduet of the operator：－
＂He is not，＂say they，＂to employ an
the in that they may be taken out the easier Nebuls．－The nebulæ furnish，in every thumbs are over the solar plexus，and the when scalded enough；this may be done in point of view an inexhaustible field of spe－ fingers on the ribs．When you feel an equa－any thing which is convenient；put a coarse culation and conjecture．That by far the gradually lowered to the knees，then carried to prevent the bottles from cracking；fill can be little doubt；and in the interminable to the head，and again brought down to the the vessel with water，sufficiently high for range of system upon system，and firma－ knees，or even to the feet；this process is for the bottles to be nearly covered in it；ment upon firmament，which we thus catch to be continued for some time，always taking turn them a little on one side to expel the air glimpse of，the imagination is bewildered care to turn the palms of the hands outwards，that is contained in the bottom of the bottle；and lost．On the other hand，if it be true， whenever they are brought up；this，as well then light the fire；take care that the bottles as，to say the least，it seems extremely pro－解 employ any ill them within an inch of the cork with the or insulated stars？It is easier to propound muscular force to direct the magneticaction．boiling water．Cork them down immediate－such questions than to offer any probable

All the movements are to be easy and grace－ly，doing it gently，but very tight，by push ful．The hand is not to be extended，but ing the cork in，for agitation will be apt to the fingers are to nave a gentle curve．A burst the brttles；lay the botlles on the side， magnetic sitting should be about three quar－to keep the air from escaping，and let them ters of an hour；for，as it is indispensable lay in that position until wanted，after turn－ that the attention should not flag，a longer ing them over once in a week，or once in a time would be fatiguing．The operator is month．－Silliman＇s American Journal． never to be undecided，but is to act with Enormous Dimensions of Comets．－It confidence ：to entertain a sentiment of pity，remains to say a $\mathrm{f} \in \mathrm{w}$ words on the actual di－ and a desire to afford relief．When the sit－mensions of comets．The calculation of the ting is about to finish，great care must be diameters of their heads and the lengths taken to extend the fluid over the whole and breadths of their tails offers not the surface of the body，and it is proper to make slightest difficulty when once the elements some passes on the legs，from the knees to of their orbits are known，for by these we feet，to free the head．＂
Such is the latest and most improved plan of magnetising in a general way；to detai all the particular processes to be employed n different diseases，would require a vo－ ume．There are，however，some impor－ tant requisites，for both magnetiser and magnetised，which are essential to the suc－ cess of the undertaking．They are，in fact， he foundation of the whole science；as without them，magnetism is but a dead let er．These are，according to Deleuze，＂an active feeling of good will，a firm belief in the power of magnetism；and an entire confidence in its employer．＇
After somnambulism is produced，the pa tient should be asked if he sleeps；if this should wake him，this state must not be at tempted to be re－excited during that sitting if，however，he answers without waking，the desired effect has been indured，and othe questions may be proposed，on the nature of his disease，and the remedies to be employed in its cure；but caution must be used，in so asking the questions that no mistake can en－ sue．
Method of Preserving Fruit withou Sugar．－You must use wide－necked bottles such as are used for wine and porter．Hav Sugar．－You must use wide－necked bottles，enormous distances should ever be collected
such as are used for wine and porter．Have again by the feeble attraction of such a body
he bottles perfectly clean．The fruit should as a comet－a consideration which accounts not be perfectiy clean．The fruit should as a comet－a consideration which account hey will hold，Fo as the lottles as full as for the rapid progressive diminution of the in．Make the fruit解（he ed．－Sir J．Herschel on Astronomy－Cabi－ rks to each bottle，slightly putting them net Cyclopoedia． know their real distances from the earth at
any time，and the true direction of the tail， which wo see only foreshortened．Now，cal－ culations instituted on these principles lead to the surprising facts，that comets are by far the most voluminous bodies in our sys－ tem．The following are the dimensions of some of those which have been made the subjects of such inquiry：－The tail of the comet of 1680 ，immediately after its perihe－ lion pass ige，was found by Newton to have been no less than 20000000 of leagues in enyth，and to have occupied only two days in its emission from the comet＇s body！a de－ cisive proof this of its being dashed forth by some active force，the origin of which to judge from the direction of the tail，mus be sought in the sun itself．Its greatest length amounted to 41000000 leagues，a length much exceeding the，whole interval between 769 extended 16000000 leagues，and that of the great comet of 1811,36000000 ．The portion of the head of this last comprised within the transparent aimospheric envelop which separated it from the tail，was 180 000 leagues ia diameter．It＇is hardly con－ 000 leagues ia diameter．It is hardly con ceivable that matter once projected to such解 vessel，for fear they should burst，and in－nous matter also exists，disseminated through crease the heat gradually，until the thermo－extensive regions of space，in the manner of meter rises to 160 or 170 degrees．If such a cloud or fog－now assuming eapricious an instrument cannot be procured，you must shapes，like actual clouds，drifted by the udge by the finger；the water must not be wind，and now concentrating itself like a co－ sufficient degree of heat for a half hour；it｜what，we naturally ask，is the nature and des－ should not be kept on any longer，nor a tination of this nebulous matter？It is ab greater heat produced，than above mention－sorbed by the stars in whose neighbourhood ed．During the time the bottles are increas－it is found，to furnish，by its condensation， ing in heat a tea－kettle of water must be rea－the supply of light and heat；or is it pro－ dy boiled as soon as the fruit is done．－gressively concentrating itself by the effect When the fruit is properly scalded，take the of its own gravity into masses，and so lay－ bottles out of the water one at a time，and ing the foundation of new sidereal systems

