THE INTERIOR.

SARGENT'S CASE.

Our readers will remember our notes on Sargent's case published in a previous issue: how, pending Sargent's appli- by him under the direction of the Secretary of the Interior, similar to the aurora, which is often present about the radication for letters patent for "an improvement in time or performs a ministerial or administrative duty improperly, ating point. It is also useful to note the color and brillocks," five interfering applications by as many different par. the Secretary of the Interior, by virtue of his supervisory ties were filed; how each interference was decided in favor power, may direct him in its performance; for, to be comparison with Jupiter and Venus, the brilliancy of these of Sargent; how one of these interfering applicants, namely, charged with the responsibility of the supervision and di-John Burge, filed a bill in equity in the Supreme Court of the rection of any kind of work or business, by law, and not be a trail behind them, note the fact, and also observe how long District of Columbia, against Sargent, praying that the for. able to require that it shall be in accordance with the law, the trail remains visible after the star disappears, also mer might be adjudged entitled to a patent for the invention would be anomalous indeed. which had been the subject of the said interference; how the Commissioner of Patents, on application of Burge, sus. terior directed the Commissioner of Patents to prepare and ities of the trail. These observations, if carefully made, pended the issue of a patent to Sargent, until the final de- issue the letters patent for said invention to Mr. Sargent. termination of the said equity suit commenced by Burge; and how the Secretary of the Interior, on the application of Sargent, reversed this order of the Commissioner. We are now enabled to lay before our readers the reasons upon which the decision of the Secretary of the Interior was as a clinical aid, numerous instances of unusual and surbased. These may be briefly stated as follows:

the authority to exercise such powers and functions as are the nervous centers. No generally accepted theory explainconferred upon him by the statutes creating his office and ing the phenomena is in existence; but it is at least conceded defining his duties, together with those which may be pre- that of all the regions of the nervous system the spinal cord scribed in the rules and regulations adopted, with the ap- seems to play the chief part in these anomalous variations proval of the Secretary of the Interior, to facilitate the busi- in animal heat. Some new investigations into the subject grimage to Mecca, Syndicate, Limited," and its object is the ness of the Patent Office. These duties are in part quasi have recently been made by M. Parinaud of Paris, an account judicial, and in part administrative, or ministerial and direc- of which we find in the Lancet. He states that he was led tory. In the discharge of his judicial duties, the Commistion to the inquiry by observing, in a case of fatal epileptisioner is to hear and determine the rights of the parties form convulsions, that the rise in temperature which 170,000 pilgrims will go to Mecca this year, and if each one within the statute, governed by the same rules as a court. Occurred pari passu with the fits did not cease with the ces-In the discharge of his administrative duties, whether of a sation of the fits, but continued to mount till death, which ministerial or directory character, the law must be executed occurred six hours later, when it reached 108° F. and soon place at the disposal of the syndicate a gross sum of nearly according to the letter and intent.

right thereto is clearly established, in accordance with the spinal cord in the cervical or dorsal region led to a fall in law and the rules and regulations of the Patent Office; but the central temperature of the body, even when the sur- appears for investing the above sum, the subscriber is going when this is done, and all of the conditions and require- rounding air attained a heat of from 82.4° Fah. to 86° Fah. ments of the law, as well as the rules and regulations of the This lowering of the central temperature appeared to be know more than we do regarding the financiering of travel-Office, have been fully complied with, they cannot be with- due to the cooling of the paralyzed parts, the deep tempera- ing expeditions. held. The duty of the Commissioner in this respect is ture of which remained during the whole experiment at a clearly and explicitly defined in Section 4,893 of the Revised lower level than in the regions still under the influence of Statutes. If the applicant is adjudged to be entitled to a the spinal cord. But in the paralyzed parts there was a rise patent for the invention claimed, and has fully complied in the surface temperature of the extremities, probably recipe by which it is stated plaster casts may be made to imiwith the law and the rules and regulations of the Patent owing to transient vaso-motor paralysis, as it passed away Office, in the payment of fees, etc., he is entitled to demand in time and depended for its degree upon the initial temthat the patent shall issue to him, and there is no right, legal perature of the skin and surrounding atmosphere. or otherwise, which will justify withholding it. If there M. Parinaud states his belief that the spinal cord influences be an interfering claim, then it cannot be said that the ap- animal heat by means of nerves distinct from the vaso-motor plicant is "justly entitled" to a patent, until the issue system, and which he imagines may have an action quite raised by the interference is determined, in accordance with contrary to that set of nerves. At the same time, says the law and the regulations governing the Patent Office, al- Lancet, he does not think it necessary to invent a distinct though such applicant may have made an important inven- system of calorific nerves, but believes those nerves to be tion and discovery, and would otherwise be entitled; but if sufficient which regulate the processes of nutrition and seafter a fair consideration of such interfering claim, it be de- cretion, of which calorification is simply the physico-chemi- tar with 8 or 10 parts of milk and the resulting mixture is cided that he is entitled to a patent, his right is unchanged, cal result. and he may demand that the patent issue. This right is not affected by the words "may issue," in Section 4,904 of the Revised Statutes, which prescribes the course of procedure whenever an interfering application is filed; for the well settled construction of the word "may" in similar statutes its annual passage through the second of the great meteor is that it is the equivalent of "shall." Nor does the pro- belts which intersect its orbit. The thickness of this belt vision in Section 4,915 of the Revised Statutes, providing a at its thickest part is estimated by Professor Proctor at some remedy for the defeated applicant by bill in equity to estab. 100,000 miles, and it is supposed that the denser portion of lish his right to a patent for the invention claimed, authorize the system or "gem of the meteor ring" contains at least the Commissioner to withhold the issue of a patent, merely one hundred thousand million meteors. These however, the departments of the government should be held in abey- ceeding a few ounces in weight. It has further been deco-ordinate department of the government. Burge's suit in the constellation Leo, and the aphelion of their orbit is equity is a proceeding de novo, and is in no sense an appeal somewhat beyond the planet Uranus. from the Commissioner's decision.

ing contests were decided in Sargent's favor, the Secretary groups of meteors. The path of the meteors, for example, the time of making the order of suspension, there was no that of the bright comet of 1862, and both Peters and Schilegal reason why the patent should not have been issued, parelli independently discovered some time ago that Temand that there was no duty to be performed by the Com- pel's comet of 1866-a body visible only with the telescopemissioner except the ministerial duty of preparing and issu- has elements which may be regarded as absolutely identical must be secured in the larva stage, and killed directly after

THE DUTIES OF THE COMMISSIONER OF PATENTS AND the work is properly done by the Commissioner of Patents | whence the meteors appear, and then to observe specially those

INFLUENCE OF THE SPINAL CORD ON BODILY TEMPERATURE.

Since the thermometer has been brought into active use prising variations in bodily temperature have been recorded As an executive officer, the Commissioner of Patents has which could be ascribed to no other cause than a lesion of after death 110°. The experiments were made upon rabbits, Letters patent for an invention are not to issue until the and the results reached were that transverse sections of the

AMATEUR OBSERVATIONS OF THE NOVEMBER METEORS,

On the 13th and 14th days of November, the earth makes

Late investigations have pointed to the identity of the

THE SUPERVISING POWERS OF THE SECRETARY OF is with the Secretary of the Interior; and that this duty of bodies which seem to have the shortest trajectories. These the latter relates to the negative as well as affirmative acts will, of course, be the ones nearest the center of radiation, of the former. Thus, if the Commissioner neglects or re-¹ and in this way the location of the latter can be quite accufuses to perform any duty required by law to be performed rately determined. Look also for a pale light something liancy of the meteors. The latter may be estimated by planets being taken as the maximum. If the meteors leave whether it has any backward motion. A field glass may be In accordance with these views, the Secretary of the In- advantageously employed to recognize any special peculiarwill be acceptable at any astronomical observatory. Meteors also appearfrom the 27th to the 29th of November, and from the 6th to 13th of December, but not in such numbers as upon the above mentioned dates.

ANOTHER TRAVELING EXPEDITION.

A scheme has been started in England which differs from the Woodruff scientific expedition in that, while the latter subscribers pay \$2,500 and travel themselves while somebody else makes money, in the other they pay \$500 and don't go, but then they make the money out of other people who do. The name of the concern is "The Hadjik or Pilbenevolent purpose of transporting devout Mahometans to the aforesaid holy city. There is a glowing prospectus, picturing the delights of the trip, which estimates that at least of these can be made to come back under the company's auspices at an average of 35 dollars per head, this "would six million dollars," of which one million seven hundred thousand will be clear profit plus also gains by freight, etc. There are only 100 shares at \$500 each, and consequently it to make at least \$17,000. Our British cousins evidently

IMITATION TERRA COTTA.

The Magasin Pittoresque gives the following original tate terra cotta ware with great fidelity. The following colors are necessary, brick red, lamp black, zinc white, and yellow ochre, all in powder. The object to be treated is first carefully rubbed over with "00" sand paper so as to remove all roughness of the surface or ridges indicating where the parts of the mould have been joined. The mixed color consists of yellow ochre 2 parts, brick red 2 parts, and black 1 part. These are well rubbed together. Then 3 parts of zinc white are separately mixed with a little milk to a paste. All the ingredients are then combined in a morpassed through a fine sieve to remove any particles of the white. A soft brush is then used to spread the stain over the object, care being taken to lay it on evenly. After 24 hours drying a second coat is applied. When the article is completely dry, rubbing with the finger will eliminate brush marks.

Russian Remedy for Hydrophobia.

A correspondent in Land and Water gives the following Russian remedy for hydrophobia: In Saraton the inhabitants collect the larva of the rose beetle (cetonia aurata) which are on the ground that a decision final in its character in one of Herschel has calculated to be extremely small, rarely ex- chiefly found in the wood ants' nests. The grubs are gathered in the spring, placed in earth, and their change or metaance to await the determination of the same question in a termined that the November meteors mostly radiate from morphosis watched for. When this takes place, they kill the beetles and dry them. The powdered insect must be kept in hermetically sealed bottles, or the dried beetles may be kept in sealed pots and reduced to powder when wanted. The above grounds, and the fact that all the interfer orbit of some of the comets with the orbits of different Three beetles, powdered, is considered a dose for an adult, given immediately after the bite. One for a child and five of the Interior believes, warrants him in concluding that, at which are usually seen from August 9 to 14, coincides with for an adult in which the disease has declared itself. The effect is to produce a long sleep, which must not be interrupted. The bite is also treated surgically.

The beetles caught on flowers are not so beneficial; they ing the patent, and that in the performance of those duties with those of the November belt. It is not definitely known they attain the image. Some of the Russians give their dogs

the statute was mandatory.

what the duty of the Secretary of the Interior was in the centric as those of the cometic orbits, and hence it is depremises. Had he the legal right to direct the Commissioner duced that the earth encounters no less than 56 meteor systo issue a patent to Mr. Sargent? The Secretary of the In. tems, thus affording proof that the total number of these terior is satisfied that he has such a right. In the first systems in the universe must be estimated by billions. place he is charged, by Section 441 of the Revised Statutes, with the supervision of certain branches of the public busi- the paths described by the meteors is of considerable astro ness, among which is "patents for inventions." By Section 481, it is provided that the Commissioner of Patents, direction or radiation is from the constellation Leo, it has under the direction of the Secretary of the Interior, "shall been observed that often on the same night many distinct superintend or perform all duties respecting the granting centers of radiation may be traced. It is by the determinaand issuing of patents directed by law." Section 4,883 provides that "all patents shall be issued in the name of the be calculated. Then by comparing the results with the ele-United States of America, under the seal of the Patent ments of the orbits of known comets, it becomes possible to Office, and shall be signed by the Secretary of the Interior, discover which comets, by rupture, according to one theory, and countersigned by the Commissioner of Patents." The probably gave rise to the various groups of shooting stars. Secretary of the Interior is led to the conclusion that the su- Hence observations made with the naked eye, which fix the pervision and direction with which he is charged means exact point in the heavens whence the meteors appear to something more than an approval of the act of the Com- radiate, may prove of value.

however, what connection exists between the comets and the occasionally half a beetle as a preventive.

In this view of the case, it became important to know meteors, though it appears that the latter have paths as ec-

It will readily be seen that a knowledge of the elements of nomical importance. While, as already stated, the general tion of these centers that the elements above referred to may

missioner of Patents. That the responsibility of seeing that | It is necessary first to note the region of the heavens | the subsequent recovery of the patient.

Ancient Mode of Moving Large Stones,

M. Eugene Robert, having found in the neighborhood of a Keltic dolmen in France a ball-shaped mass of sandstone about a foot in diameter, suggests that it might, with other stones shaped like it, have been used as a roller to facilitate moving the immense masses of rock wherewith the ancients constructed their monuments. He thinks that by this means the large granite rock which supports the equestrian statue of Peter the Great in St. Petersburgh, was brought from Finland.

DEATH FROM CHLOROFORM AVERTED.—A correspondent of the British Medical Journal communicates the interesting observation, that in a case of syncope during the administration of chloroform, where the usual treatment was without effect, and death seemed imminent, the application of some lint saturated with nitrite of amyl to the nostrils was followed almost immediately by restoration of the pulse, and