which the hides are treated capable of exact adjustment to tude. On June 30 Saturn will be on the meridian at 5h. the number and size of the hides, so as to fully control the 32m. at an altitude of 48°. degree of boarding to which they are to be exposed.

An improved Tile Machine, invented by Mr. Miles Moore, of Liber, Ind., consists of a mixing mill in combination with an eccentric plunger, the latter working in a chamber having two discharge spouts, which are provided with suitable moulds for forming the tiles.

Mr. H. Mortensen, of Alma, Col., has designed a Torpedo Boat intended to be operated at the surface or wholly under | Regulus, and west of it. water, according to circumstances. Compressed air is used to drive the greater part of the machinery, and the special improvements relate to the mode of loading and projecting

ment in Thread-Guard Supports for Ring Spinning Frames, intended to hold the guards between adjustable spindles, so by means of a weighted arm and stop bar.

up or down hill or over uneven roads.

it being necessary to raise the sash.

and a storage reservoir, from which the superheated steam goes to the cylinder.

Mr. S. Cottle, of New York city, has invented an improved process of making Collar or Sleeve Buttons, which consists in striking up and drawing out the central portion of a circonical end of the post and soldering the head upon it.

Astronomical Notes.

OBSERVATORY OF VASSAR COLLEGE.

The computations in the following notes are by students of Vassar College. Although merely approximate, they are sufficiently accurate to enable the observer to find the planets. M. M.

Position of Planets for June, 1878. Mercury.

Mercury, having come between the earth and the sun, passed across the sun from east to west, and is therefore in June west of the sun. It rises on June 1 at 3h. 33m. A.M., and sets at 5h. 11m. P.M. Early in June it can be well seen before sunrise. On June 30 Mercury rises at 4h. 8m. A.M., and sets at 7h. 18m. P.M.

Venus.

Venus rises early all through June, and can be beautifully seen in the morning. On June 1 Venus rises at 2h. 34m. A.M., and sets at 3h. 35m. P.M. On June 30 Venus rises at 2h. 11m. A.M., and sets at 4h. 27m. P.M.

Venus comes to the meridian a little after 9 A.M. throughout the month at an altitude between 57° to 67°. A small telescope will bring it to view.

Mars.

On June 1 Mars rises at 7 A.M., and sets at 10h. 4m. P.M. On June 30 Mars rises at 6h. 39m. A.M., and sets at 9h. 12m. P.M.

On June 1 Mars is about 11/2° above & Geminorum; it passes to the east of that star and farther south in declination; its silks. In case it should be held that the words 'Cachemire can offer is that the inventive genius of the American peomotions can be watched in the early evening hours. On June 30 Mars sets as Jupiter rises.

Jupiter.

Jupiter rises on June 1 a few minutes after 11 P.M., and sets at 8h. 45m. the next morning. On June 30 Jupiterrises at 9h. 7m. P.M., and sets at 4h. 40m, the next morning.

The 7th, 14th, and 21st, according to the Nautical Almanac, will be the nights of June in which the satellites of Jupiter will present the most interesting positions. On the 7th the first and second satellites with their shadows will be on the face of the planet at the same time, between midnight and one in the morning. The same will occur again on the 14th in the later morning hour. With a powerful glass the two moons and their two shadows may all be seen on the planet's disk.

Saturn

On June 1 Saturn rises at 1h. 34m. A.M., and sets at 1h. sets at 11h. 37m. A.M. of the next day.

Saturn, although apparently and really much smaller than Jupiter, is in better position for observation in the June mornings, as it comes to the meridian at a much higher alti-

The three planets, Venus, Jupiter, and Saturn, will make the hours of June which precede daylight very beautiful.

Uranus.

in the June evenings, and Uranus can rarely be seen with the naked eye. On June 1 Uranus sets at midnight, and on the 30th it sets at 10h. 11m., still in the neighborhood of rushing up through, carries off the bran. What is left is the

NOTES OF PATENT OFFICE DECISIONS.

In the interference case of Stearns vs. Prescott, the examthe torpedo spars, excluding the water, and operating the iner found that Stearns was the first and original inventor, make the poor spring wheat of Minnesota and upper Wis-Mr. J. Doyle, of Lowell, Mass., has invented an improve-publicly sold for more than two years prior to the date of fortunes of the inventors of the method.—Hartford Courfiling his application. This being a statutory bar to the ant. grant of a patent to Stearns, the examiner, while awarding that they can prevent the yarn of two adjacent bobbins from | priority to him, at the same time reported this fact to the coming in contact, and also avoiding attachment to the ring | Commissioner, as provided by office rule 59. The counsel

ment had been based.

& Co.," and with a picture of the Cathedral of Milan.

If not previously registered in connection with the same the essential part of the mark was the word symbol " Cachemire Milano."

The decision of the Examiner of Trade Marks on this point was as follows: "The word 'cachemire' or 'cashmere' is not arbitrarily selected as a mark for silks, because it might easily have reference to a peculiarity of the silk. It would be the appropriate and only appellation for a fabric uniting the qualities of cashmere and silk; it might be apthere is a well known variety of silk, characterized by a soft and lusterless finish, which goes by the name of 'cashmere black silk.' The applicant is, therefore, seeking to register the proper name of an article of commerce, and his proposed mark would in fact give him a monopoly in the sale of such vention (save one) which exists here is to be found elsewhere, goods. . . . The word 'Milano' or 'Milan,' which by and yet the same fertility of invention does not appear elseitself might conceivably be a fanciful term as applied to where. It may be true, as some assert—for instance Mr. silk, becomes itself insignificant from its connection with a Raymond, before the House Committee on Patents-that indescriptive term, and to allow the applicant to register it ventors invent, as a hen lays eggs, because they can't help it; would prejudice the rights of those resident in Milan who but what makes the inventor? And what makes inventors so might desire to manufacture and advertise Milan cashmere exceptionally numerous here? The best that Mr. Raymond Milano? are not descriptive, they must then be held, accord- ple "seems to be indigenous to the very soil!" And we ing to the practice of the office, to be deceptive. They doubt if any one can offer a better answer without hitting have not the merit of being newly coined, like 'castroleum', the right one. cocoaine,' nor of being symbolically used, as 'rising sun,' when applied to an article of commerce. They are, remarkable soil never passed beyond the bow and arrow stage in their proposed use, merely a misnomer, and are calculated of invention, we are compelled to think that its strange to deceive. An inspection of the goods might or might not and tardy productiveness must have been awakened by undeceive the purchaser; but this does not go to the essence some outside influence. And after eliminating all the inof the objection. The mark is false and tends to deceive, fluences shared equally by our civilized kindred in other and that is conclusive against the applicant."

This decision of the Examiner of Trade Marks is adopted and affirmed by the Acting Commissioner.

The New Process of Flour Making.

Almost everybody knows of the flour, but not every one understands what it is. Stripped of technicalities, this is perhaps about the story of its manufacture. The best flour used to portion of the weight of the spring wheat, and this would repairs of one and one half cents per mile run.

sell more particularly for feed for horses. Now the best of flour, and the most expensive, is made of this very refuse of the old-fashioned process. It all came out of the discovery of a way to draw out the bran. Under the new process the wheat is ground about as before. The first result is an or-Mars and Uranus are the only planets which can be found dinary flour sold for exportation. Then the remainder is taken and put upon great horizontal sieves, and, while agitation is going on there, an ingenious system of draughts, glutinous portion of the wheat, the most nutritious and most productive, and out of this, purified now by the drawing off of the bran, we get our new process flour.

The result of the discovery of the process has been to but that the invention was reduced to practice by him and consin the most valuable kind of grain, and to make the

IS IT A MERE COINCIDENCE ?

Speaking of Edison's phonograph, the New York Herald rail. The guards are held in pendent position and regulated for Stearns thereupon requested that he might be allowed remarks that "the Americans are the most inventive peosufficient time to file affidavits to fully explain all matters ple in the world, and besides a multitude of minor inven-In a new Traction Engine, invented by Mr. M. Fortin, of relating to his invention, its conception and reduction to tions of more or less utility they have contributed more than Stillwater, Minn., the arrangement is such that in winter practice, in order to establish conclusively that the use prior their share to those greater conquests of man over nature runners may be used instead of wheels, thus converting the to the time provided for by law was of an experimental char- which outrank all the other intellectual achievements of our engine into a steam sleigh; and the water in the boiler is so acter, and should not operate to deprive Stearns of his patent. time. Even in the early beginnings of our history, at a time distributed as not to be thrown all at one end or side, exposing the flues at the other end or side to burning, in going | purpose of the interference was to develop the history of the lin's discoveries in electricity gave him a pre-eminence in invention on the part of the contestant, and it was necessary that fruitful branch of science which will never be eclipsed. An improved Blind Adjuster and Fastener, invented by for the applicant to adduce proof showing not only that he When he announced his capital discovery of the identity of Mr. T. Corrigan, of Brooklyn, N. Y., is designed to enable had completed the invention experimentally, but had actu-lightning and electricity the Royal Society laughed at his window blinds to be opened, closed, adjusted at any desired ally reduced it to practice before the patentee, in order to theory, but the laughers were soon subdued by the cogency angle, and securely fastened in the various positions without establish priority against the latter. The fact of abandonment of his experiments, and the Royal Society in 1753 made by public use or sale must be established by indubitable amends by conferring on him, unsolicited, its highest honor, MM. R. Seillière and L. Riot, of Paris, France, have se-proof; and if there be any doubt upon such point, that the Copley medal. It was thus an American who set in cured an American patent on a system of Using Superheated doubt should be resolved by the office in favor of the applimation thetrain of discoveries whose most important prac-Steam, in which the steam is superheated during its passage cant. If the proof was not sufficient to establish the fact of itical result is the electric telegraph. It was our Morse who from the generator to the engine, without the interposition abandonment clearly, the applicant should be allowed a made the final application and established the first telegraph. of any valves between the superheater and generator, the patent. On the other hand, if the proof of public sale for It was our Fulton that made the first successful application outlet from the boiler being reduced in area, and the size of more than two years prior to the filing of the application of steam to navigation. Our Draper preceded Daguerre the superheater augmented to the utmost extent possible, was established against the applicant by the testimony all in making sun pictures, although the Frenchman got ahead The superheater consists of a number of very small tubes in ready taken, it would be simply disproving his own case by of him in turning the discovery to use. That most benefithe smoke box, a secondary superheating coil in the fire box, | counter affidavits to allow him, after the hearing, to show cent discovery of the age, the use of anæsthetics in medicine that such was not the fact. The Acting Commissioner ac- and surgery, is of American origin. All the things on which cordingly held that it would be establishing a very bad pre- we have now touched, as well as the latest invention of cedent, if, after a party had set forth the dates of the con- Edison, deserve a place in the highest ranks of successful ception, completion, and use of his invention in a proceeding physical research. Of inventions which consist in purely especially adapted for that purpose, he were allowed, upon mechanical applications of well known principles Americans cular metallic disk to form a hollow post, then severing the obtaining an award of priority, to proceed to rebut or ex- have distanced all competition in multitude, in variety, and plain away the very proof, perhaps, upon which such judg-in importance. A catalogue even of the most useful and noteworthy would be tiresome by its length. To say nothing Warburg & Co. applied to have registered as a trade mark of Whitney's cotton gin and other early inventions, enough the term "Cachemire Milano," to be applied to black silks, has been done in the lifetime of persons still young to conthe term to be used in connection with the words "R. Savie fer luster on American ingenuity. The sewing machine, the mowing and reaping machines, the machines for planting seeds and thrashing grain, are a few among the many class of goods, the picture of the cathedral would undoubt- which are as the leaves of the forest for multitude. Withedly be a proper trade mark; but the applicant asserted that out dwelling on achievements which have gone into history we may safely challenge all Europe to show an inventive genius who deserves to stand by the side of Edison."

> There is, we are told, a large class of intelligent persons -a larger class than is generally supposed-who favor an entire repeal of our patent system, as one for which there is no necessity, and from which we derive no commensurate benefits. That the American people are inventors beyond all others is beyond dispute. That the grand results of plied to a species of silk resembling cashmere in appearance, American inventiveness have been beneficial no one is so or in the processes of its manufacture. As a matter of fact, foolish as to question. But, say these anti-patent people, the patent law has nothing to do with these results, except perhaps, to complicate and hinder them.

These objectors fail, however, to suggest a reasonable explanation of the circumstance that every incentive to in-

For our part, seeing that the original inheritors of this lands, and finding the one exceptional incentive to invention which has prevailed here to be a patent system uniquely favorable to inventors, we are forced to accept it as the true cause of the superior fertility of the American people in this field of useful effort.

A Good Year's Work.

The Railway Age asserts, on the strength of considerable be made of winter wheat. Spring wheat yielded either much correspondence relative to the achievements of locomotives, 24m. P.M. On June 30 Saturn rises at 11h. 43m. P.M., and less in quantity, or else so much of the bran got into the that the best running on record is that of one of the locomoflour in its manufacture that its color was intolerably dark. itives of the Western Maryland Railroad. According to the The wheat would be ground and then bolted. In the refuse statement of Manager Hood, that engine made the extraor-—the bran and middlings—would be included a large pro- dinary run of 59,953 miles in one year, at the low rate for