the end of the month, he sets about twenty minutes past 10

is evening star, and has traveled so far away that he is no longer visible except in the telescope. His course during the month is enlivened by an incident. On the 5th, at 3 o'clock in the morning, he is in quadrature with the sun, that is, he has reached his half way house between opposiright ascension is 11 hours 4 minutes, and his declination viewed from the planet Mars. Like her, she hugs the sun, 6° 50′ north.

the close of the month, he sets about 11 o'clock in the even-

evening star. He is too far away to be seen even in the telescope at present. But the mental eye can pierce the depths of space, and behold the distant planet appearing above the horizon, and taking the lead of the morning stars as they herald the sun's near approach.

Neptune rises a few minutes before half past 3 o'clock in the morning; at the end of the month he rises about twentyfive minutes before 2 o'clock.

is morning star, and keeps close to Neptune, there being but seven minutes' difference in the time of their rising at the beginning of the month, and ten minutes' difference at the close. His progress is entirely uneventful, though it is pleasant to think that he has turned the corner leading to opposition, and to imagine the superb aspect he will take on next November. He will begin to be an object of interest during the last part of June, for he rises nearly three hours before the sun. He may be found then in right ascension 3 hours 21 minutes, and declination 16° 20' north, in the constellation Taurus, forming a triangle with the Pleiades and Aldebaran. Though at his most distant point, and in rises now a little after half past 3 o'clock in the morning: at the close of the month he rises at a quarter before 2 o'clock.

JUPITER

first part of the month, and only faintly shining an hour for twelve months." before sunrise at its close. His path during the month is | decidedly monotonous after the important part he has played for some months past. But all the planets cannot be leadout in radiant colors as the months roll on. It is unusual to notwithstanding. have nothing to record concerning the movements of the planet upon whom so much attention is lavished when he is near enough for telescopic inspection. Never was a view of his returning face more ardently longed for, and never will the problems concerning the changes on his surface be more zealously studied than when he again draws near.

morning: at the close of the month he rises at the end of the | tility, having great affinity, yet separable by reduction of | tendencies of inflammation. The antiphlogistic action is month at 3 o'clock.

THE JUNE MOON

fulls on the 1st. The waning moon is in conjunction with 20th, and near Uranus on the 22d.

creasing nearness, and presents the seeming anomaly of to 300 pounds in the ammonia machine. steadily gaining in size and brilliancy as less and less of her illumined disk is turned toward the earth. Mercury may be studied with interest as he presents the phase of a waning moon in passing to inferior conjunction. Mars and Regulus age from Havre to this port, by electric lamps supplied by at conjunction will be instructive objects for the telescope, the planet taking on the form of a ruddy disk with faint markings, and the star remaining a brilliant point of light. Even the largest telescopes can make nothing but points of dazzling light of the largest fixed stars on account of their immense distance.

fall back upon the moon, which, in certain phases never in supplying the light aboard the steamer. Upon the arrival loses her charm, and is seen to better advantage in a small of the steamer at this port it was found that less than 500 telescope than a large one. The best time for a view of the amperes had been used, leaving the balance in good condimoon is near or before the first quarter, when she is from tion for future purposes. There were eight lamps kept conthree to eight days old, or under the same conditions during tinually lighted, six of "eight candle" power, one of six, the last quarter. She is then superbly beautiful with her and one of fifty candle light. The lamps used were those of silvery light and curious markings, while herinner edge or the Edison, Maxim, and Swan lamps, the first named emitterminator presents all manner of fantastic forms,

June is therefore a quiet month among the planets, in celestial neighbors have, however, greatly changed their posi- one hour. The smaller were of about one third that capacity. tion and conjunction, being 90° from each. He is therefore in the later portion reigns almost alone, Mars being the only given. on the meridian at 6 o'clock in the evening, and well ad other representative of the family. Those who watch the vanced on his western path when the stars come out. His movements of Venus can see just how the earth looks when oscillates eastward and back again, passes between the sun inflammation is one of the ancient doctrines of therapeutics Uranus sets a quarter before 1 o'clock in the morning; at and Mars, oscillates westward and back again, and completes the circuit. Like Venus, she will, at long intervals make a transit. Martian astronomers, if there be any, will simple modus operandi. By the removal of blood from the look forward to a transit of the earth as eagerly as terrestrial surface the vessels of the deeper inflamed parts were partly astronomers are looking forward to the transit of Venus in is morning star, and the first of the trio enjoying that dis December. But Martian observers behold something more tinction to emerge above the horizon. It will be remembered than our eyes can discern in looking upon Venus, for the that he was in conjunction with the sun on the 6th of May, earth, as she serenely pursues her course in the Martian sky, after which he passed to the sun's western side and became is accompanied by a tiny companion, our beautiful moon, transformed by distance from the grand proportions which remove the inflammatory stasis, although such an effect has we behold to a tiny point of light, revolving around the never been demonstrated experimentally; and, moreover, lovely evening star that glows in the Martian sky.

If planetary events are rare there is hope that the moveless the men of science are wide of the mark the visitor in question has been lately subjected to experimental investiour northern sky will become an object of intense interest as, reaching perihelion, he looks down from high northern ohtained have been described by the former in the Centrallatitude, displays his shining nucleus, and spreads his gauzy tail over millions of miles of space, coming from unknown depths, and departing to unknown depths again.

CONGRESSIONAL ENGINEERING.

tives making an immediate appropriation of \$50,000 for the retardation of the blood current, and, finally, the formation work at Hell Gate, East River. In urging the passage of the bill Mr. Hewitt, of New York, said:

explosion, but in order that the rocks may be blown out of place this year, it is absolutely indispensable that the work adherent to the wall. The stasis passed away, and in a few should go on without interruption. If there be any interminutes the inflamed capillaries were cleared, and presented his smallest phase, he will soon change his aspect. Saturn ruption it will postpone the explosion for twelve months, for the reason that nitro-glycerine, which is the explosive circulation. Whether the corpuscles which had already agent used, can only be surely and safely exploded during a wandered out of the vessels were influenced by the abstracperiod of six weeks in September and October. During the tion of blood could not be with certainty determined. In summer the lightning which prevails at that time is apt to some experiments scarification was employed after the focus is morning star and comes lagging along an hour after his produce an inductive current, which may discharge the exbrother planets. The Prince of Planets makes a forlorn | plosive compound; and during the winter the cold weather appearance in his lessened size and diminished luster, hug- prevents the explosion altegether; so that any delay in the ging the sun so closely as to be entirely eclipsed during the prosecution of this work will simply delay the entire work

Mr. Hewitt's statement of the case appears to have been convincing and conclusive, the successful explosion at Hal lett's Point and the daily use of nitro-glycerine in mining ing actors all the time, and a season of rest will bring him and tunneling in all parts of the country to the contrary

An Improvement in Ice Making.

Some months ago there was described and illustrated in this paper an important forward step in the economical production of ice artificially, in the binary absorption system, invented by the late C. M. Tessie du Motay and August J. Jupiter now rises shortly before half past 4 o'clock in the Rossi. This system employed two liquids of unequal voiawas a mixture of sulphuric ether and sulphurous dioxide.

Neptune on the 12th, and with Saturn on the 13th. The of the International Ice Machine Company, have discovered side of the heart.—Lancet. waning crescent the day before her change is very near, that still better effects are obtainable by a mixture of ammonia Jupiter, passing thirty-seven minutes south. The new moon and glycerine. The non-volatile glycerine absorbs at low of the 15th is in conjunction with Mercury on the 16th, and pressure many volumes of ammonia; and when the ammonia with Venus on the 18th. As Venus will be at the time more is vaporized by the action of a pump, intense cold is protban six degrees north of the moon, the conjunction will not duced. The chief advantage claimed for the new compound be of special interest. The moon passes near Mars on the arises from the utilization of the great cold-producing power of the ammonia in volatilization, and the neutralization of forward end, the improvement is a stone sled, with runners The telescopic material for planetary observation in June its enormous pressure by its absorption in the glycerine. six to eight inches broad, composed of two three-inch planks, is not very satisfactory. Venus will, however, reward the When the machine is at rest the pressure is from zero to 15 sawed so as to give a rise of six inches or more at the front. On patient observer, for while she retains her gibbous phase, pounds, as against 125 pounds in the ordinary ammonia each of these runners is placed a piece of 3x4 inch scantling, less of her enlightened surface is turned toward us. She, machine, and when the machine is at work the pressure is and three lengths of the same four and a half feet long conhowever, more than makes up for the loss of light by her in- from 35 to 50 pounds, as compared with a pressure of 225

The Faure Storage Battery on Shipboard.

The lighting of the steamship Labrador, on her recent pass-Faure accumulators, marks an important stage in the practical application of stored electric energy.

The Labrador took on board at Havre 145 accumulators, said to contain 30,000 amperes of two volts tension. They were charged by a dynamo machine, April 29, and transferred the next day to the steamer, just before she sailed. Fifty of In the scarcity of other objects the amateur telescopist can the batteries were placed in the engine room and were used ting the brightest light.

The accumulators were of two sizes, the larger containing striking contrast to the prevailing activity of May. Our the equivalent of the effective force of one horse power for tion. Neptune, Saturn, and Jupiter reign in the morning The larger batteries contain fourteen lead plates each, inclosed sky, and anticipate the sun. Saturn and Jupiter will be in a box about 20 inches by 8 inches by 12. The cost of charming to behold at the end of the month as they make electric lights on shipboard, supplied in this way, it is their appearance when the morning light is breaking. The claimed, would be less than the cost of oil now used. The peerless Venus glows in the west throughout the month, and probable weight and cost of batteries for such use are not

The Effect of Bleeding on Inflammation.

The effect of local abstraction of blood in relieving local which is still unrefuted and still unexplained. It was formerly held that the result was produced by a perfectly emptied; but it was later recognized that this explanation is incompatible with the known conditions of the circulation. The local removal of blood never produces a lasting effect on the circulation in the part. At the present time it is generally assumed that the effect of local depletion is to the idea of a derivatory action still haunts the theory of the subject, while the effect is sometimes ascribed to the influments of the new comet will atone for the deficiency. Un-ence of the depletion on the whole mass of blood. The gation by Genzmer and Nikolas, of Halle, and the results blatt für Med. Wiss. In the web of the foot of curarized frogs foci of inflammation were excited by punctiform cauterization, either by nitrate of silver or a red hot needle: and the process was watched with the microscope. When well known phenomena of inflammation made their ap-A bill was recently passed by the House of Representa- pearance, the aggregation and exit of the white corpuscles, of stasis, a leech was applied to the leg. As soon as the leech began to suck, a striking change occurred in the "The underground chambers are nearly ready for the final inflammatory process in the foot; the blood current became quickened, and carried on the corpuscles which were to the end of the experiment a normal and even accelerated of inflammation had been excited. The effect was less conspicuous, since the loss of blood did not occur with the same vehemence as with a leech, although the amount of blood abstracted was nearly the same. The effect of abstraction of blood from the general circulation, by opening an abdominal vein, was still slighter, although the amount of blood taken was considerable. The conclusion drawn from these experiments is that the antiphlogistic action of local abstraction of blood is produced by a purely mechanical agency. A temporary augmentation of the circulation occurs, by which the capillaries are cleared; and the stasis, which is the first step in a local necrosis, is removed. Not only is no local anæmia produced, but there is actually an arterial hyperæmia; there is an increased supply of arterial blood to the focus of inflammation, which, besides its effect on the blood vessels, may reasonably be supposed to improve the nutrition of the tissues, and so to counteract the pressure owing to the great volatility of one of them, its clearly proportioned both to the amount of blood withdrawn volatilization producing intense cold. The binary liquid and to the rapidity of its withdrawal, and its action is notably greater if the blood can be withdrawn from the circula-Recently Mr. Rossi and Mr. Leonard F. Beckwith, President | tion between the region of the inflammation and the right

An Improved Stone Boat.

A correspondent of the Country Gentleman describes a novel form of stone boat in use in Monroe county, N. Y. Instead of having the boards composing the "boat" extend under the entire surface, and only slightly turned up at the nect the two sides of the boat and form the platform on which good inch boards are laid. The whole is then spiked with wooden bolts extending through the bottoms of the runners. Wooden pius are better than iron, because as the boat wears, iron would tear up the soil. There need not be a particle of iron in the boat, if wide enough boards are used, though it is better to put in a few nails to hold down the center.

This form of boat is very strong, and can be used where an ordinary stone boat would be impracticable. It is decidedly improved by putting in a tongue so as to be more readily guided. With even the slightest fall pow it is quite as convenient as a sled.

Rear Admiral John Rodgers, S. N.

In the death of Rear Admiral John Rodgers, in Washington. May 5, the United States Navy loses one of its oldest and most capable officers. He was lately President of the Naval Advisory Board, and for a number of years has been Superintendent of the Naval Observatory at Washington.