## AMERICAN ENGINEERS' ASSOCIATION. <br> [Reported expremily for the Scientific America0.]

On Wednesday evening, Nov. 6th, the usual monthly meeting of this association was held at its room, No. 24 Cooper Institute, this city-Thomas B. Stillman, President, in the chair ; Benjamin Garvey, Secretary.
The customary miscellaneous business having been transacted, the election of members was proceeded with: the names published in this journal, as those proposed at the last meeting, were taken up. A member present objecting to the name of one person upon that list, as being unfit to become a member of this society, it was resolved that each be singly ballotted for. This was done, and all, with one exception, were unanimously elected. The subjoined were proposed for the same object:-Robert Simpson and Abraham B. Davies.
Mr. Louis Koch, in behalf of the Committee on Science and New Inventions, gave the society, by request, a verbal report of their decisions in relation to the articles lately submitted to them. As this report was referred back for the purpose of having it properly presented in writing at a subseluent meeting, it will be better to defer its publication until that pariod.
The Board of Managers have in progress the revision of the constitâtion, by-laws, \&c., but not being in such a state of forwardness as to admit of report at this time, it was resolved, in order to facilitate the accomplishment of this essential business, that, when the associa. tion adjourns, it do so till Wednesday evening next, that the above work might be acted upon, and finished, if possible.
At this period the society were pleased to inspect and fisten to an explanation of the annexed new intention.
Oscillating Piston Engine.-Mr. Mark Runkel exhibited his new oscillating piston engine. This engine consists of a short cylinder, the central portion of which is occupied by a wheel performing the office of a piston, which makes about half a revolution in one direction, and then stops and turns back in the other directionthus oscillating back and forth. The wheel is made with tivo wings fastened securely upon it, extending to the inncr surface of the cylinder, and packed steam toght on their sides and ends. Two abutments are secured rigidly to the cylinder, and project inward to the wheel or piston, being packed at their ends so that the piston may revolve against them steam tight. Steam is admitted and discharged through ports which communicate with an ordinary steam chest, and are opened and closed by the common D-valve, or any valve of suitable form. The crank or arm on the end of the axle is made of a proper length in relation to the length of the crank on the flywheel shaft, to cause a revolution of the latter at each oscillation of the former. The pressure on the axle of the piston is balanced as it acts on both sides, thus reducing the friction to a low point and obviating all tendency of the piston to get out of place by wearing its bearings. The inventor, among other points, claims simplicity, durability, compactness and economy of space and great effective power. This engine dispenses with slides, and renders high-pressure velocities of piston practicable of attainment.
This invention was referred to the appropriate committee, who will duly report thereon.
After a feiv unimportant remarks on other subjects, the meeting adjourned.

A NOVEL YaCHT.
The London Illustrated Times contains the engraving of a beautiful yacht in the form of $a$ white swan. Its length is 17 feet 6 inches, its greatest breadth of beam $\mathbf{7}$ feet $\mathbf{6}$ inches, and its hight from the keel to the top of the back, 7 feet 3 inches. Even in detail the proportions of a swan on a large scale are strictly adhered to. Its neck and head, beautifully carved, rise gracefully 16 feet above the water line. The wings of the bird are represented by the sails. The vessel is a perfect life-boat. Beside the wings, a propelling force is given by means of two powerful steel-webbed and feathering feet, placed in their natural position between the keels. The seats are covered with green morocco, and stuffed with gramulated cork and cocon-nat fiber. The cailing is lioed with a 3inch air casing to exclude
the heat. There are Venetian blinds at the sides, with oval plate glass windows, which can be lifted or lowered at pleasure. In the center is a table, and there are small apertures which open to the water underneath, and thus afford the opportunity of fishing while sitting at table. Any aquatic prey thus obtained may be dressed in a multum in parvo cooking apparatus on board, the smoke from which is conveyed through the bird's neck and out at its nostrils, the woodwork being protected by a safe water casing round the flue. In the breast of the bird is a ladies' cabin, fitted up as a boudoir. The fittings also include a pumping apparatus, a fresh water tank, and lockers innumerable for the storing of every necessary. The whole interior is either covered with morocco or delicately painted. The steerer sits high in the tail of the bird, and, with halyards in hand, controls the vessel as easily as the driver does his horse. Behind the neck is an aperture large enough for a man to get out of when the sails require reefing or the anchor lowering. The Swan's register is about five tuns, its internal capacity 500 cubic feet. When fully stored, and carrying 15 persons, its draft of water is only 17 inches.

Poison in Finger Rings.-All visitors to Paris will have noticed the shops of bric-a-brac, or objects of curiosity and vertu, so numerous and tempting in that capital. At one of these establishments, in the Rue St. Honore, a gentleman was engaged a short time ago in exanining an ancient ring for sale there, when he accidentally gave himself a slight scratch in the hand with a sharp point of it. He continued talking with the dealer for a short time, when he felt an indescribable numbness and torpor taking possession of him, and paralyzing all his faculties, and soon became so ill that the people in the shop hastened to call in a physician. The doctor immediately declared that the gentleman had been poisoned by some powerful mineral substance, applied strong antidotes, and was fortunate enough to relieve the symptoms which had caused so much alarm. The ring was then examined by the medical man, who had spent some time in Venice, and who found that this old jewel was what is there called a "death ring," a class of ornaments in frequent use in Italy during the seventeenth century, when the habit of poisoning was all but universal. Attached to the part of the ring intended to be worn inside the finger are two minute lion's claws, of the sharpest steel, and having clefts in them filled with a violent poison. In a ball or other crowded assembly, the wearer of this fatal ring, wishing to exercise revenge on any one present, would tuke the victim's hand, and when pressing it ever so gently the sharp claw would be sure to inflict a slight scratch on the skin, and the victim would be equally sure to be dead before the next morning. Notwithstanding the length of time which must have elapsed since the poison was secreted in the ring in question, it was still powerful enough to cause great danger, as has been seen, to the gentleman who had so unwarily touched it.

Amping Explosion of a Barrel.-The following funny incident occured on the 30th ult. at the railroad engine house at Springfield. Mass. One of the engineers, not having the fear of the constable before his eyes, had wickedly purloined an oil barrel which he designed to fill with cider ; but how to remove the smell and taste of the oil, to fit it for such a purpose, rather puzzled him. In this momentous emergency he took counsel from a friend, who mischieviously advised him to fill it nearly full with un'slacked lime and water. This was done, when lo!, the barrel was soon at high pressure and exploded, throwing the engineer some distance into the air, and landing him astride of an engine smoke stack with a hoop in each hand. No further harm resulted.

The Philadelphia papers employ glowing terms in describing a new steam fire engine built for that city by the Portland (Maine) Locomotive Company. It weighs only $3,100 \mathrm{lbs}$., has a steam cylinder of 8 -inch bore and 9 -inch stroke.

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issued from the united states patent office for tur wrex ending novemurb 6,1860 .

## [Reported Officially for the Solewhifio Amerions.]

Pamplitets glving full particulara of the mode of applying for patenta, size of model required, and much other information ugePat to inventors, may be liad gintia by andreseing $M$
Publighers of the Scicntific Ampacan, New York.

30,555.-F. C. Adams and Joseph Peckover, of Cincinnati, Ohio, for an Improved Hinge:
We claim forming, a hinge by the combined nee of the larpe cut
nder recess on one part, and the proiection bid, or its equivalent on the other part, and the molten zinc. or other easily fuzed metforth in between them, substantially as and for the purpose set 30,556.-C. E. Atherton, of Paterson, N. J., for an Improvement in Vapor Lamps:
I claim the combination and arrangement of the gas receiver, the self-acting valve or gage at the top of the qeneration tube, with the
uso of the metnil rod and beveled pin, substantially as and for the use of the metnl
purpose set forth.
30,557.-M. H. Bacon, of Mystic, Conn., for an Improvement in Machines for Dressing Stone:
I claim, first, The arrangement of the vibrating frame, $G$, with
the lever. $M$, and the apring, $K$, for increasing the force of the blows at plearure beyond that due to rravity alone. Second, The employment of t.he checking ppring, J, in complna-
tion with the vibrating frame, G , and lever, $M$, or their equi valenta tion with the vibrating frame, $G$ and lever, M, or their equi valents
substantialy as deacrioed, for dininishing the force of theblows at pleasure befow that due to gravity.
Third. The arrangement of the recesp, in the vibrating frame,
$G$, on the sliding finme, $\mathbf{C}$, and ofthe gearing, H and $\mathbf{O}$, substantially as and for the purpose get fortl.
Fourth, The employment of the sieever, T, operated by the screws the cutter frame F F in combination with the meane for adjusting
the inclination of the several cutters, S , in their respective aleeven, the inclination of the severa
T , substantially as set forth.
30,558. - Wm. B. Barnes, of Forestville, Conn., for an Improvement in Clocks:
I claim the arrangement of the verge, $g$, detent, $k$, triangular
ahaped eacape wheel tooth, 0 , in combination with a pendulum, $n$, substantially as and for the purpose described.
I claim, in combination with the arrangement above described, the arrangement of the pointer spindles and gearing attached thercto,
substantially as and for the purpos der
30,559,-John Beaumont, of Hartford, Conn., for an Improvement in Coffee-pots:
I claim the arrangemeet, in the manner and forthe purnose speci-
fled of the confee.pot, a, provided with the liquid joint, $f$, the recep fled. of the coffee pot, a, provided with the liquid joint, f, the recep-
tacle, b, having the perforated bottom, c, and perforated cover, ${ }^{\text {en }}$
and the condenser, $d$, provided with the cavity, and the condenser, d , provided with the cavity, i .
30,560.-N. Brittan, of Lockport, N. Y., for an Improvement in Lightning liods:
I clalm the construction of lif hitning conductors with parallel con-
tinuous stripe ortubes of metal held at a disiance apart nad united by intervening washprs or blocks, substantially in the manner and for

30,651.
provement Butler, of Mariana, Florida, for an Im provement in Crmpositions for Soap:
I claim the described so $p$ crmposed of the ingrrdients apecified,
and mi med together in about the proportion described, forthe purpores se $t$ forth.
[The object of this invention is to produce a cheap soap which can be used in water containing mineral or metallic substances equally well as in ordinary soft or pure water.]
30,562.-C. F. Chambers, of Chambersburg, Ind., for an Improved Washing Machine:
I claim the combination of upper rubber, $D$, adapted to recipro-
cate on tetaionary ways, C , and the swinging lower rubber or board, cate on stationary wasp, C. and the swinging lower rubber or board,
F , adapted to be elevated from the tub, and to hold tho clothes stationary for the upper rubber to act ypon, or to be depressed at will
as and for the objects set forth.
30, 563.-A. B. Colton, of Athens, Ga., for an Improved Spike for Threshing Machines:
I claim the ccmbination of reversible spike, A A s, flanged and
shouldered plates or ringa. Ca h d , and screw bolta B , substantially in the manner and for the purposes deacribed.
30, 564. - James Davies, of Schuylkill Haven, Ya., for an Improvement in Canal and River Locks:
Y claim, in combination with a lock chamber, a paseage or nageafea
through which the water may flow back into the unper level, when a boat enters the lock from above, and thr ugh which water may fow into thp chamber from the level below when the boat is lepriving the
lock, eubstantially in the manner and for the purpose set forth.
30,565.-S. N. Davies, of Muskegon, Mich, for an Improved Clothes' Sprinkler:
I claim the combination with a suitable bellowa of the ayphon
tube, $\mathbf{C}$ and the barrel, $G$, with its perforated end or ficice, b, and
valve, $\mathbf{H}$, arranged and operating as and for the purposes set forth. 30,566.-John Davis, of Elmira, N. Y., for an Improvement in Apparatus for Detaching Horses from Carriages:
I clnim the rrrangement of the whiffe-tree as const, ructed with
the thills provided with the hooks, $\mathbf{H} \mathbf{H}$, and springs, I I , substanthe thills provided with the hooks, $H$ H, and springs, I I, substan-
tially as and for the purpose specified,
30,567.-A. K. Eaton, of New York City, for an Improved Gold Amalgamator:
I claim, first, The nse of on inf erior amalgamated surface, subof mercirs Second, I claim the combination of the rotary diak. with the hollow shaft and.receiving bowl, substantially as described.
30,568.-M. W. Dillingham, of Charlestown, Mass. for 568.-M. W. Dillingham, of Char
an provement in Vapor Lamps:
claim the application of the valve O, nnd cup. E. to the wick tubp, in rich mannpr as to enahle bnth Vnlve and cur to tnrn to-
gepher nn tbe wirk tahe, and with respect to the lateral discharglag orifire thrreof ne described.
Alsa The arragement and combination of the cup or thmble, IF,


[^0]:    Ancient Chirning Process.-The mode of churning in Fayal, one of the Azores, is to tie the cream np in a goat ckin, and kick it abiot till the batcar comen

