27,261.-Elisha M. Smith, of Indianapolis, Ind., as signor to himself and Elbridge G. Mayhew, of Shelbyville, Ind., for an Improvement in Molding Machines:
I elaim the combination of variable guides and their necessary
appendages with ai zash or molding machine, substantially as de-
scribed in thespecification.
27,262.-George Elliott and George F. Elliott, of Man chester, Conn., for an Improvement, in Locks:
We claim, first, The combination of the hok plates, B B', spring
pivot, $h h^{\prime}$, and inclined eloted eccentric rim, F, the whole conructed,
described. The movable tumbler, $E$, in combination with the hook
Seconi, Th,
plates, ${ }^{3} \mathrm{~B}^{\prime}$, spring pins, $h \mathrm{~h}$, and eccentric rim, $F$, substantially as
[This lock has a series of circular hook plates, so arranged in a case that, in order to unlock the lock, it is first necessary to disconnec aid plates by certain movements of the key. The operation of un locking is very simple and easy to those initiated, but rather difficult and tedious to the burglar. The construction is simple and chea We regard it as a good conntrivance.]
ne-issues.
R. H. Cole, of St. Louis, Mo., for an Improvement in Making Nuts. Patented June 3, 1856:
 which they are cut, all substantially as set forth.
R. H. Cole, of St. Louis, Mo., for an Improvement in Nut Machines. Patented June 3, 1856:
I claim the arrangement of the round punch, fi, with nn aperture
in the angular punch, $d$, at the same time that a round punch, $e$ is rranged within an aperture in the bottom, $j$ of the nut box, whe
 I allo claim the joint arrangement of the angular punch, $d$, and its
nterior round punch, ${ }^{\prime}$, with the bottom, $j$ of the nut box and the nterior round punch, ${ }^{\text {n }}$, with the bottom, , of the nut box and the bined with a spring, or its equivalent, in such a manser in relation
to the said angular punch, $d$, and the round punche, e and $f^{\prime}$ that the to the aid angular punch, d, and the round punchee, e and fr that the
action of the said partsin forming a nut will cause the completed nut
to be thicker than the bsr from which the blank was cut, substantially to be thicker
as set forth.
James M. Dick, of Buffalo, N. Y., for an Improvement in Railroad Frogs. Patented Aug. 3, 1858
I claim combining the four rails, arranged in the manner de
scribed, to form a frog by attaching them separately to a series o
separate chairs, in manner substantially as described, so that each part mas be removed for repairs and replaced independently of the I also claim as gotding dorth.
I also clalm holding down the movable end of the springing rail of
the froc to its chair, so that it shanl ba freeto expand and contractand
sprigg anterally by complining it with the chair by means of the lip
George C. Dolph, of West Andover, Ohio, for an Im provement in Mowing Machines. Patented Sept. 8, 1857:
I claim atta hing the cutter bar, B, and cutter, A, to the front o the frame of the machine by means, of a plate or bar, so arranged of the mind frame of the machine, and thus give to the cutting ap
paratus a tilting or rocking movement which will elevate and lower paratus a tilting or rocking movement which will elevate and lower the paten ted machi.
[This invention consibta in giving the cutter bar and cutter an ad justable movement independently of the frame of the machine, s hat the cutter or sickle may be raised and lowered and adjusted a any desired point, without moving or at all affecting the frame of the machine.]
James Powell (assignee of Martin Robbins and James Powell), of Cincinnati, Ohio for an Improvement in Faucets. Patented Dec. 21, 1858:
I claim, first, The application to the key stem the collar, I, cushion,
 $\mathrm{m}^{\prime} \mathrm{m}^{\prime \prime}$, when connected by a fioor, N, and operated upon by a suitable Third, The elevated or projecting guidee, o, or its equi valent, when combined substantially as and for the purpose set forth. with a valve
stem formed and adapted to be actuated by a cam or other eccentric
on the key stem in both opening and closing the valve.
Blarney E. Sampson, of Boston, Mass., for an Improvement in Pole Coupling for Railroad Cars. Patented July 7, 1858:
I claim making the mhuth or face of the bunter between the plates, f the pole may be easily made, whether it point directly forward or deviate to the right or left, substantially as set forth.
Second, I also claim sustaining the pole of $n$ horse car in the proper
position by means of the brace, $G$, substantially as described.
Frederick E. Sickels, of New York City, for an Improve ment in Steam Engines. Patented Sept. 19, 1845 : I claim adjusting the expansion of steam in steam engines with the Bhall commence
of the cylinder.
Frederick E. Sickels, of New York City, for an Improvement in Steam Engines. Patented Sept. 19, 1845 I claim the combination of a cam, arm or wiper, moved by nin indeweight, spring or other force that acta to close a cut-on valve
Frederick E. Sickels, of New York City, for an Improvement in Steam Engines. Patented Sept. 19, 1845: I claim liberating the closing weight, or apparatus to cut off, by the gervoir to resist the force and momentum of the rapidly moving parts
is cutting off.
Fredeaick E. Sickels, of New York City, for an Improvement in Steam Engines. Patented Sept. 19, 1845 1 claim imparting a co-existing movement to two reciprocating
Frederick E. Sickels, of New York City, for an Improve ment in Steam Engines. Patented Sept. 19, 1845 I claim an adjusting mechanism, so arrauged that the relative position of its parts, auringrny poztion of its movement by the engine,
can be changed to ater the clowior action of the weight that operates
the cut-offs without altering the time or encountering the resistance the cut-offs without altering the time or encounteri
of opening the two separate moving cut-off valvee.
Frederick E. Sickles, of New York City, for an Improve ment in Steam Engines. Patented Sept. 19, 1845: relieve the engineer in working the engine by hang and so as that,
When the engine is hooked on, they will exert their foll force in de


Josiah Ells (assignor titional improvement.
assignor to Jas. M. Cooper and Wm. S. Lavely), of Pittsburgh, Pa., for an Improvement in issued Sep
I clain, first, The combination of the cam, $i$, on the hanmer and cam, ${ }^{\text {i }}$, on the trigger, constructed and arranged substantialy as de-
scribed, for the purpose of drawing back the Elifer and retaining it
and the hammerat the pointof full cock witcout the use of anypawl ar catch to retain them in that position
Second, The use in fire-arms cocking as well by hammer as by
rigger of pawl in combination with a notch on the front ed
he hanmer, for the purpor trigger, of a pawl, in combination with a notch on the front ed ge of
the hamimer, for the purpose of preventing the complete fall of the
hammer and the discharge of the piece in case of the partial raising hammer and the discharge of the piece in case of the partial raising
of the hammer or drawing of the trigger, substantiall as described.
Third, The combination ond arrangement of the cam $\mathrm{i}^{1}$, and pawl
on the tripg ifter, $\bar{y}$, on the the tigager, so that, their con hoined arction will effect the ntire operation of the arm, viz, in half coeking or full cocking the he trizger in n drawn position, preparatory to the discharge, by the
nanipulation, of either the hammer or the triger Fourth, The opring stop on the arbor or spindle and ratchet groove In the bore of the cylinder in which it works, to prevent the backward
otation of the breech, in combination with the rotation of the breech, in combination with the spring stop on the hammer spring and ratchet grooves on the external circumference of
the breech in which in which it works, to prevent the forward rotation
of the breech, for the purpose, by their combined action, of perfectly of the breech, for the purpose, by their combined action, of perfectl $\delta$
locking the breech in position before the hammer reach es the point of lith cock, by either mode of manipulation, preparatory to firing.
foll ond
Fifth, The lever and siund spring in the triger, combined and Designs.
. S. Vedder (assignor to Abraham Cox, Joseph Cox and Jolm Whitman), of Troy, N. Y., for a Design or a Cooking Stove
Isaac De Zouche, of St. Louis, Mo., for a Design for Iron Railings.
James E. A. Gibbs, of Mill Point, Va., for a Design for a Sewing Machine.
H. S. Hubbell, T. H. Wood and J. E. Roberts, of Buffalo, M. Y., for a Design for Stoves.
William H. Smith, of Nemport, R. I., for a Design for Stoves.

## Motessernowios

J. G. of Ind. - The claim of H. B. in his communica tion on page 83 of our present volume is, that by compression he avoids the loss of the steam which is required at each stroke to fil the space between the port and the piston. If he cut off at the proper point to save this, it does not follow that by cutting off sooner he would save more-he could not save more than the whole of $213^{\circ}$, not in an open boiler. Why the bottom of a hoter than remains cool, if such is the tact is to us a mjstery. $W$ remains cool, if such is the fact, is to us a msstery. Veshould no pick a millstone with a glazier's diamond.
W. McC., of Ala.-The water taken up by a whirlwind in the form of a water-spout will be found to be salt when it falls to the earth. Most of the rain is formed of water which rises by C. L., of Conn. - A fall in the mercury of the barometer generally indicates approaching rain, a high wind, or a thunder
storm; but it frequently rises prior to a snow storm. The reason of this is but imperfectly known.
C. A. P., of Ky.-An ambrotype can be copied photo graphically by transmitting the light through the gass ina dark quainted with any artist in this city who makes a practice of taking pictures in this manner, though several know how to do it.
G. L. B., of Maine.-There are plenty of oscillating steam engines so constructed that the trunnion itself is the valve and the steam is shut off and taken in by the cyli der itself.
C. H. H., of Ind.-Smoke consists principally of car bon. The plan of burning it by passing it into a hot furnace has England. An escape flue is necessary.
O. B. M., of Mass.-Your article on the Pemberton Nill is accepted, and will probably appear in our next issue.
J. W. S., of N. Y.-Your article on the obstruction river navigation ts ach and will apear soon C. W. K., of Ga.-We know of no liquid which wil prevent insects from sucking the blossoms of apples and pears. T. H. Y., of Ohio.-There can, of course, be no way of drawing all the wine from one cask into another on the same level without the use of power, applied either to a pump or some other apparatus.
A Subscriber, of Canada.-Bodies falling through a vacuum fall with the same velocity whatever their density or size. This is true only of bodies whose weight, compared to that of the ties proportioned to the quantity of matter which thes contained J. D., of N. S.-It would be necessary to know more of the facts than you communicate in order to answer your question. How great is the present head? How large is the pipe through which the water flows? and how much water do you want to raise per day? We recommend you to write directly to the AlF. $F$
F. F., of Kansas. - In commencing the study of chemistry, use only the moet simple apparatus. A blow-pipe, spirit lamp, number a few glass tubes will enable you to perform quite a published experiments Morfitt's "Chemical Manipulationa, ble work for your purposc. You can only obtain books published by government from members of Congress.
F. A. C., of N. Y. - Napoleon II. was the son of Napo leon I. and Maria Louisa, of Austria. He died young. The Sons of Maltaconstitute a secret order-great upon malt liquor,for ought aston desired about the microscopes which were advertised.
J. H. F., of N. Y.-The beautiful gloss to which you refer, upon marble and alabaster, is produced by rubbing the sur face (after it has been reduced with emery and pummice stone with a moist linen cloth and the powder of calcined tin. After rubbing with this for some time, take a cushion of sof dry cloth, or, what is better, a piece of soft white leather, and rub very light but it is seldom used.
G. P. D., of C. W.-There must be something wrong with your battery when you cannot get a copper deposit from a with sour battery when you cannot get a copper deposit from a
trong solution of the sulphate. It is a difficult matter to silvertrong solution of the sulphate. It is a difficult matter to silver
plate cast-iron, but it has been done in some instances by having plate cast-iron, but it has been done in some instances
an excess of chloride of silver in the cyanide solution. Us an excess of chloride of silver have stronger solutions than those you have yct tried.
J. J. B., of N. Y.-A windmill may be capable of doing all the work you want in a wagonshop, but you cannot depen upon it because it isnot constant. A horse-power, we think, woul be the cheapest which you could use in a small business. If it is not sumcin, we adise sou to get a small steam engine
J. B. B., of Fla. - Short iron chimney caps are not ob jectionable with lightning rods attached, if you have the lower part of the cap properly connected with the rod. All large pieces of metal, such as gutters and caps, about the roof and sides of the house, should be connected with the rod. The latter should be a large as possible, in order to carry off the most intense stroke with ease.

## Money Received

At the Scientific American Office on acicount of Patent Offe business, for the week ending Saturdar, Feh. 25, 1860:P. C., of Conn., $\$ 30$; N. A. P., of Tenn., $\$ 70$; J. M. B., of lowa, $\$ 30$; J. W. A., of Vt., $\$ 25$; J. B. C., of N. Y., $\$ 55$; C. E. 1H., of Mass., $\$ 30$; J. W. C., of Fla., $\$ 250$; E. B., of Ohio, $\$ 30$; N. S. G. of N. Y., $\$ 30 ; \mathrm{N} . \mathrm{A} . \mathrm{S}$. , of $\mathrm{I} 1 \mathrm{~V}, \mathrm{~S} \$ 30 ; \mathrm{E} . \&$ D., of Mass., $\$ 12 ; \mathrm{H} . \mathrm{B}$. J., of N. J., $\$ 250$; O. C., of Vt. $\$ 30$; S. \& M. of N. Y., $\$ 30$; G. II B., of IIL., $\$ 25$; R. B., of N. Y., $\$ 25$; R. S., of Va., $\$ 30$; D. McK. of N. Y., of $\$ 20$; J. S., of Ind., $\$ 10$; I. S. S., of R.I., $\$ 30$; J. D. B., of N. C, $\$ 25$; S. A. Co., of N. Y., $\$ 30$; C. M., of N. Y., $\$ 42$; A. \& W., of N. Y., $\$ 32$; G. W. B., of Conn., $\$ 30$; J. E. E., of Cal, $\$ 230$;
G. J. R., of Ill., $\$ 35$; J. E. A., of Tenn., $\$ 20$; E. B., of Ind., $\$ 30$ G. I. B., of Ill., $\$ 35$; J. E. A., of Tenn., $\$ 20$; E. B., of Ind., $\$ 30$ F. S. M., of N. Y., $\$ 30$; D. A., of Ohio, $\$ 30$; G. W. D., of N. Y.
$\$ 30$; A. B. II., of Fla., $\$ 25$; W. S., of II., $\$ 30$; J. H., of N. J., $\$ 30$ $\$ 30$; A. B. II., of Fla., $\$ 25$; W. S., of Ill., $\$ 30$; J. H., of N. J., $\$ 30$;
W. W., of Pa., $\$ 400$; J. I. L., of N. Y., $\$ 30$; A. S., of N. Y., $\$ 25$; W. W., of Pa., $\$ 400$; J. I. L., of N. Y., $\$ 30$; A. S., of N. Y., $\$ 25$;
W. T., of Mich., $\$ 30$; G. H. M., of Mass., $\$ 30$; R. R., of Vt., $\$ 40$;



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ofice, a maked degree of promptncss, skill, ?nd fudelity to tho inImmediately after the appontrient of Mr. Holt to the oftice of
 mony to the able and cofcient manner in which you discharged your
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