27,504.-L. W. Langlon (assignor to himself, Hiram 27,605-G. W. N. Yost (assignor to G. W. N Yot Wells and D. G. Littleficla), of Northampton Mass., foran Improvement in Sewing Machincs:


## and a fric specifid siecond

specified. $I$ chim the revolving take-up, L, operating as get forth, for
the ond



$27,505 .--$ E. $\Lambda$. Leland (assignor to himself and Ste phenson \& Tompkins), of Jacksonville, IIl., for an Improvement in Gas Stoves:
 Tha box, a
deviectay
get furth.
27,506...-Danicl Minthon (assignor to John A. Green), of Bevcrly, Mass., for an Improvement in Enema Syringes:
 having aprertures or throat formed
through, sullstantially as set forth.
$27,597 .--W m$. H. Noyes (assignor to Gideon S. Pal mer), of Gardiner, Maine, for an Improved Machine for Reducing Wood to Slivers:

 27,598.---Elizabeth Keagg, of Mincral Point, Pa., ad ministratrix of the estate of Samuel Keagg; dc-
ceased, late of Nineral Point, aforesaid, for an Improved Centering Chuck for Lathes:


[The object of this iuvention is to obtain a simple attachment that may be applied to any ordinary turning lathc, and serve as an efficient centerivg device therefor to admit of the very realy and pro per adjustment of articles in the latter.]
27, 599.---Hiram H. Scoville and D. R. Fraser (assignor
to themselves and P. W. Gates), of Clicago, Ill.
for an Improvement in Quartz-crushers:

as set forth.
27,600 .-- C. Edward Sneider (assignor to Wm. Yoult
ney), of Baltimore, Md., for an Improvement in Breech-loading Fire-arms:


er
cThis invention relates to the locking, spring that is ued to eccur
the breech and barrel together in condition for firing in some linds of
Cire-arme. It consists, first, in a certain contrivance applied to euch
locking apring for the purposo of constitutinga means of adjustment locking gpring for the purposo of constitutinga means of adjustmen to amke the aaid apring lock the breech joint tightly and compensate Onrel upon which the said spring acts. It consists, secondly, in cer min improved meansof rasing the locking spring from the projection on the breech to unlock it and permit it to be opened for londing.] 25, 601..-.John Stowell (assignor to himself and Danic)
F. White), of Charlestown, Mass., for an Improved

Feed-water Regulator for Steam Boilers
 and a loaded
na described.
(The object of this invention is to control the action of the fecd pump, either by ahifting a belt which drives it from a loose to a fast pulley, and vice versa, on one of the shafts by which it is driven, of by operating on any other means of starting and stopping the pumps,
and it consists in a certnin means employed, in combination with a
float, whereby this result is produced very promptly aud certainly at
the instant of the water in the boiler falling or rising to certuin the inst
levels.]
25, 602..--Stephen Ustick, of Philadelphia, Pa., assignor to himself and Julius A. Pcase, of New York City, or an Improvement in Clay Pipe Machines:
I claino, first, Constructint the die piece, J, with perforations of
penings, $t$, to be filled with cotton, wool or other openings, t, to be filled with the
Binnce, in conbination with
and for the murnose described.
 e filled with cocton or other suitable fibrous substance, or an equiva

pupose of hothing thelatter in in the , gharings with the core. M, for the


 O, or its equivalent, whech arranged and operating the relation to tod the
die, $I$, substantially in the manner and for the pur poses bet forth. die, I, substantially in the manner and for the pirposes bet forth.
Se venth. The safety chamber, T, provided with the valve, U , ar-
ranged and operating in relation to the clay cyhuder, B , substintially
as and for the parpoge get as and for the parpose set forth.
603.-C. J. Van Wyck (assignor to J. M. McCauley)

New York City, for an Improvement in Appara-
tuses for Distilling Oil from Coal
I claim the construction of a retort, with a grate, c , in the bottom,
and an inclined conductor. F, below such grate, as described, such conductor not being the outlet for the $g$
of the flre by which the retort is heated.
of the fire by which the retort is heated.
[This invention consists in a certain construction of an apparatis [This invention consists in a certain construction of an apparatis8
or distilling coal or other substances with provision for the simulfor distilling coal or other substances with provision for the simul-
taneous extraction or solution and separation of oils or other products taneous extraction or solution and separation of
of two different qualities or specific gravities.]
27,604.-A. L. O. Wall, Geo. Roberts, and M. S. Car
ter, of Decatur, Ill., for an Improvement in Truck forMole Plows:
We claim the combination or the crank axles, B B' link rods, $G$,
traveling plate, $F$, and screwed spindle, $C$, substantially as described traveling plate, $F$, and screwed spindte, $\mathbf{C}$, substantially as described
for the purposes set forth. when arrang ed and operating substantially as described for the purwhem arranged
pose aet forth,

C05.-G. W. N. Yost (assignor to G. W. N. Yost \&
Co.), of Yellow Springs, Ohio, for an Improvement in Manufacture of Soap:
I claim the described new article of manufacture, namely, hard
soap, prepared in a state of minute subdivision ingted sonp, prepared in a state of minute qubdivision, insead of hears or
cakes, substantially as set forth forthe purposen described. re-issues.
Louis Lefebore, of New Orleans, La., for an Improve ment in Furnaces for Evaporating Sugar Juices Patented Nov. 2, 1858 ; improvement added Jan. 24, 1860:

## I claim, first, The hemispherical kettle, with alternate converging

 ing brick, In combination with the said kettle, fluting the surround
the kettle.
Third, $\mathrm{P}_{\text {assing }}$ the connecting pipes of the kettles through the flues
Thereby they are utitized qas evaporators, a a set forth.
Fourth, The inclined gutter, in combination with thegutters of the
respective kettles, as doscribed.
Ifth, The
Afth, The cylindrical fue enclosing the latter, connected with the
exit flue, and communicating with the nudulating flue at the top bs
Wm. Mallerd, of Bridgeport, Conn., for an Improvement
in Gas Regulators. Patented Oct. 8, 1858:
I claimarranging the graduated lever, 4 , with the adjustable weigh
17, in combination with the gasometer. 2, , and the valve 10 , in gulch
man
a manner that by raising the gasometer the valye is closed, and the
supply of gas is $\%$.aited, so that the pressure of the gaa in the gaso
meter can be regulated bvadiusting the weight, 17 .
Ais in combination with the lever, gasometer, and reservoir, I

t. said tube with

Albin additional improvement.
Albran Anderson, of Lancaster, Pa., for an Improved Governor for Steam Engines. Patented August 3, 1858:
I claim the change from a disk revolving on an extended arm to
disk revolving over the center of the moving frame, and the conse quen revolving over the center of the moving frame, and the conse
quent change in the mede of generating ant applying the rezultant
force which ari ses from tle combined movemento of the disk and frame; which chanse in the mode of production and application of
the power, brings the nachine within a amaller compass, gives it
more simplicityof constraction widin
 DESIGNs.
. W. Gibbs (assignor to Ratbone \& Co.), of Albany, N. Y., for a Design for the Plates of a Cook Stove
. W. Gibbs (assignor to Ransom \& Co.), of Albany, N.
Y., for a Design for the Tops and Bases of Stoves. rancis Hovey, of New York City, for a Design for a Copying Press.
Samuel H. Ransom, of Albany, N. Y., for a Design for Stove Plates.

## Hotees 9 Tupios

A. H., of Ill.-A solution of salt and alum is excellent for preserving the furs and skins of animals, but it will not keep them a sufficient length of time, as stuffed specimens of natural history. Such skins are treated with arsenical soap, which is a powerful antiseptic and preservative against the attacks of insects.
We do not know where you can cet Audubon'e Natural History in We do not kno
monthly parts.
R. W., of Mass.-The whirling motion which water assumes in flowing from a hole in the bottom of a tub is not caused by electrical currents, as you suppose, for such currents do not of water offered by the orifice, and it amounts to $27 / / 2$ per cent of the powerof the falling water. The co-efficient of discharge through an orifice is only $623 /$ per cent, therefore the resistance by the orifice to the free falling of the water communicates motion to the mass in the tub, and this must affect the motion of the efuuen its passange is unobstructed.
N. B. T., of Ohio.-Iron and steel are rendered a deep blue color, by first polishing the metal, then heating it up to $570^{\circ}$ Fah, and cooling it at this point. The color of any polished piece of stcel indicates its temper. A straw color, which is the temper 4500 Fah. is the heat for razors, and is a dark yellow. A light pur ple is obtained at $530^{\circ}$ Falh., which is the temper for watch springe and swords. $290^{\circ}$ Fah. is the temperheat forlarge saws and $570^{\circ}$ Fah. for small oies.
C. Van 1)., of Miss. - Your subscription will expire with No. 10 of our next volume (in September). You ask a recip for a good solder, and we will give you one. Take 1 lb . of pure Banca tin, and melt it, then add half a pound of clean lead, and when it is melted, stir the mixture gently with a stick or poker,
and pour it out into solderstrips. We gave Mr. J. Lathrop, of Middleton, Conn., this solder receipt some years ago, and he tas informed us that it has been worth $\$ 50$ to him. He has never failed make polder with it
J. W. B., of Ala.-Professsor Faraday has certainly declared that the efficiency of a lightning conductor is due to the solid section of the metal. We know it has been generally supposed that most of the electricity in conductors is carried on the surface; but not "wholly" on the surface. It hasalways been held by us that the electric fluid permcated the whole conductor.
F. A. B., of Wis. - You can make the plate or cylinder of an electric machine with wood, covered with several coats of lac-varnish as a substitute for glass. You may also mount your
plate on a metallic axis, and have perfect insulation, if supported on pillars of dry wood. You must insulate your rubbers on glass, if possible French elass is the best substance which you can use for the generating plate, and we must caution you not to expect much from the lac-covered plate as a aubstitute.
R. D. O. S., of Conn.-Small drills may be run at the rate of 3,000 revolutions per minutes, if kept cool with plenty of oi or water. A 5 -inch circular saw may be driven at the speed of 4,500 feet per minute at the periphery. The proper speed far any saw depends upon the kind of wood that has to be cut. A good al loy for thelining of journal boxes is composed of copper, 24 ounces tin, 24; antimony, 8. Melt all, and run into an ingot first; after which melt the ingot for the journal box, and pourit into the mold. In making alloys, melt the most fractious metale first, and the others according to the
M. F. V., of Vt.-'The sketch which you have sent of on electro-magnetic engine represents one that is used as a toy somewhat extensively. It is of no practical value. If you desire to be a good engineer, we advise you to serve a full apprenticeship at the business, and commence first in a rather small country machine shop, where you will have an opportunity to try your ekill upon all kinds of work. In large shops you would be too much confined to one specific kind of work, acorring to present custom. W. H., of Md.-The recipe to which you refer for flavoring tobacco is to moisten it thoroughly with whiskey in which one pound of honey has been steeped to the gallon for two dayp, stirriug it frequently during that period. This liquid imparts a pleasant flavor to the tobacco of cigars, and is used withsuccees by some igar manufacturers. Beeswax ateeped in whiskey makes a be hightened, add a little gum benzoin with the honey.
C. A. S., of Maine.-The conducting power of copper is 1.00 ; silver, .98 ; gold, 1.13 ; iron, 5.63 ; quicksilver, 50.00 ; zinc, 3.70. Silver is the best conductor of these metals; copper second, and mercury the worst- 50 times. You will therefore perceive hor unscientific it would be to employ cups containing mercury in any ductor, in comparison with the metals. It is to conper 28 40, fij3,723.00 to 1; salt water is about 14 times superior to fresh as a conductor.
J. G., of Ind.-It is true that there has been great difficulty in distinguishing among the lower organizationg, plants from animals. Ehrenberg fell iato the error, common bo all the their true pill , true philosophical spini, he obstiately mala in his fase position it up. Mo of the tup. Mard the low Fhral ; and some French sovans, whichenys that yeatt consists of an enimal The pith, however, f the yeast plant which, from ta indenent morion is mistaken for ingly minute a to be barly visible undera microcope which represents the por ganiems, even if they were animals, would not produce a 1 ,000th part of the carbonic acid that is given off in fermentation. The
 lieve that they were not animals, so life-11ke were their motions. But Hassall, Carpenter and Edwarda have, we think, pretty fully settled the quastion; and there is hardly room to doubt that they are simply the plant in one stage of its growth.

## Money Received

At the Scientific American Office on account of Patent . M., of Mass., $\$ 30$; W. T., ol N. Y., $\$ 30$; J. A. McC., of Ky., $\$ 25$; W. McA., or Mich., $\$ 30$; A. B., of N. J., $\$ 30$; W.J. A., of Tenn., $\$ 30 ;$ H. E. W., of N. Y., $\$ 30$; J. M. F., of N. C., $\$ 55 ; \mathrm{H}$. K., of Il., $\$ 30$; N. H. G., of Conn., $\$ 30$; H. A. H., of N. J., $\$ 25$; C. F. B., of R. I., $\$ 90$; H. W. W., of Mass,, $\$ 26$; R. J. G., of Ind., $\$ 30$; N. S. G., of N. Y., $\$ 25$; D. C. J., of N. Y., $\$ 30$; B. I., of N. Y., $\$ 30$; J. D. M., of N. Y., $\$ 30$; J. H. D. \& Co., of Texae, $\$ 30$; C. \& B., of Iowa, $\$ 25$; P. G. Mc C., of Pa., $\$ 30$; J. S., of N. Y.,
$\$ 25 ;$ J. S., of In., $\$ 30$; W. S. M., of N. Y., $\$ 30 ;$ J. C., of Mase, $\$ 30$; M. M., of Mo., $\$ 10$; J. E. E., of Pa., $\$ 50$; J. P. K., of Wis.
$\$ 25$; B. W. B., of Wis., $\$ 25$; C. P. G., of Ill., $\$ 30$ W. T, of Ind. $\$ 25$; T. H. W., of Mass., $\$ 30$; E. F. R., of N. Y., $\$ 30$; R. F. O'B., of Mo., $\$ 25$; T. P., of Ind., $\$ 55$; W. J. T., of Cal., $\$ 20$; E.,
$\$$ D., of Mass., $\$ 10$; G. W. B., of Mass., $\$ 25$; $\Lambda$. H., of Ky., $\$ 25$; $\$$ D., of Mass., $\$ 10$; G. W. B., of Mass., $\$ 25 ; \Lambda$. H., of Ky., $\$ 25$;
W. C., of Iowa, $\$ 30$; C. W. B., of Mass., $\$ 55 ;$ R. P. A., of N. Y., $\$ 30$; D. \& S., of N. Y., $\$ 25$; J. P. F., of N. Y,, $\$ 30$; F. B. B., of N. Y., $\$ 250$; M. C., of N. Y., $\$ 30$; A. H. R., of Pa., $\$ 30$; C. W., II., $\$ 15$; G. W. W., of Ind., $\$ 30$; H. A. M., of Ill., $\$ 30$; P. \& H.,
 J. M. C., of S. C., $\$ 30$; J. B., of Mass., $\$ 25$; G. \& B., of Conn., N. Y., $\$ 35$; J. H. L., of N., $\$ 25$; G. W. T., of N. Y., $\$ 25$; J. R. T., of L. I., $\$ 25$; D. E., of Ill., $\$ 55$; A. II., of Ohio, $\$ 30$; W. B. B., of IM., $\$ 30$; W. H., of Ohio, $\$ 25$; J. M., J., of N. Y., $\$ 70$; B., of Ill., $\$ 30$; W. H., of Ohio, $\$ 25$; J.
T. J. M., of Pa., $\$ 15$; C. R. S., of Vt., $\$ 25$.

Specifications, drawings and models belonging to par ies with the following initials have been forwarded to the Paten Office during the week ending Saturday, March 24, 1860 :
A. S., of N. Y.; C. W., of Mass.; W. W. H., of N. Y.; H. K. of Il.; W. I. T., of Texas ; N. S. G., of N. Y.; G. \& B., of Conn., C. R. S., of Vt.; J. R. T., of L. I.; G. W. T., of N. Y.; J. S., of
N. Y.; R. F. O'B., of Mo.; S. Mce., of Il.; I. N. W., of Ill.; T. J. M., of Ind.; G. W. T., of N. Y.; W. H., of Ohio ; D. E., of Ill.; A. H., of Kr.; D. at S., of N. Y.; J. B., of Mass.; H. A. II., of N.
J.; H. W. W., of Mass.; B. W. B., of Wis.; J. B. J., of N. Y.; L. K. S., of Conn. (2 cases) ; H. C., of N. Y.; S. T. S., of Mase. J. II. L., of N. Y.; G. W. B., of Mase.; W. T., of Mich.

## Literary Notice.

Mospratt's Chemistry of Arts and Manufac-
tores. Published by C. B. Russell \& Bro., Boston, and No. 290 Broad way, this city,
This, the most ful and complete chemical work yet publis hed. has
now reached part XL $V$, which containa a beautiful ateel plate of Pro$\left\lvert\, \begin{aligned} & \text { fessor Gregory, the author of one of the } \\ & \text { chemistry ever published in our country. }\end{aligned}\right.$

| Rates of Advertising. <br> Thirty Cents per line for each and every insertion, payable in advance. To enable all to understand how to calculate the amount they must send when they wish advertisements published, we will explain that ten words average one line. Engravings tofore, the publishers reserve to themselves the right to reject any adveltisement sent for publication. |
| :---: |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |

## IMPORTANT TO INVENTORS.



D UDGEON'S PORTABLE HYDRAULIC JACKS

 plse where, with a limited movement, oreat power is required
fold tor a civcular. DUDGEON d LYON, No. 466 Grand-strect
New York.

CRESSON \& HUBBARD, HAND AND POWER Cove Twelfth, Philadelphia, Pa.

FOR SALE-BY GEORGE FOWLER, AT PHIL-


## $\mathrm{F}^{0}$

 OR SAIE-MACARONI AND VERMICELLI



Th OTRIN'S MECHANICS.-D. APPLETON \& CO, Findan Nos. 346 and 348 Brondway, New York, have iust published Morin. Revised, trans anted and reduced to English unitsof measure.
B, Joseph Bennett, C,E. 1 vol., 8 vo., $\$ 3$. Sent free by mail on
receipt of price.

SMEE'S Of galvanic betteries, electro-metallurgy, metallic deposit, reof galvanic batteries, electro-metallurgy, metallic deposit, re-
duction of metals, of allos, electro-gilding and silver-plating, mul-
tiplication of coint minks of dies manufacture of molds, electrotype





## I

M ACHINE BELTING, STEAM PACKING, EN-



$\mathbf{B}_{\text {es outside diameter }}^{\text {OILER FROM } 1} 1$ 1-4 INCH TO 7 INCHB es outside diameter, cut to any length desired, proriptly furn$\int_{\substack{\text { nished } \\ \text { tf } \\ \text { tf }}}$

## T

HE AMERICAN PUMP.-THIS VALUABLE
 qun rights to sell in limited territory for zale on onood terms
dreas
11 tf

SOLID EMERY VULCANITE.-WE ARE NOW Yrinding and polishing metala, that will outwear hundreds of the
Eiud commonly used, and will do a much greater amount of work in kiud commonnly used, and will do a much rreater amount of work in
the same time, and more efficiently. All terested can see them in operation at our warehouse, or circulars deseribing them will be furnished by mail NEW YORK BELTING AND PACKING CO, 9
$G$ UILD \& GARRISON'S STEAM PUMPS FOR

TRON PLANERS, ENGINE LATHES, AND OTHER


## A VALUABLE PATENT.-WE HAVE A PATA ent for sale which we can with confidence recommend to the 

PATENTS.-WANTED, PATENT AGENTS, OR others, to sell se veral valuable natent rights west of the Rocky
Mountains. Adress box

WHEELER \& WILSON'S SEWING MACHINE. "They have no rival."-Scientific American.

SECOND-HAND STEAM ENGINES AND BOIL-
Ders for sale.-One horizontal engine, about 8 -horse power; one

5.000 AGENTS WANTED-TO SELI FOLRR

$\mathbf{B}_{\text {Udapted to all purposes of pumping from the well and cistern }}^{\text {URNELL }}$


PATENTED WOOD-BENDERS FOR ALL VAArietee of heavy or light Bent Wood Builders, Lane \& Bod
Bey.
Patente, JOHN C. MORRIS, Cincinnati, Ohio.

COPE'S PATENTED COAL OIL PUMP-RELI-
No. 162 Front-street, Cincionnati, ohio.
A. WORTH'S SELF-ACTING WOOD-TURNING



FOR SALE-FOR WANT OF WORK, ONE Compleam Engine, 12-inch cylinder, boiler, heater, pump, \&c.




WOODWORTH PLANING MACHINES - ON Tr hand and in course of construction, at less prices than -ever be-
Treffered. Address J. H. LESTER, No. 57 Peari-street, Broklyn,

 and Shears; Cob and Corn Mills;
Shingle Mills; Belting, Oil, 8 .

CTRAY \& WOODS PATENT MMPROVED



[^0]PATENT EXTENSIONS.-ALL PATENTS FOR
 NILEsB ExTENDED accordina mo law. The statute provides scr th
 ond administrators. The ExTENDED TRRA inures solely to the benciit

 Patent, when granted, becomes the exclusive property of such pur chaser. Applications for Extensions must be made at the Patent
Office at least 65 days prior to the extenision of the Patent. The undersigned, having had great experience in Patent business, will
promptly prepare the various documents and prosecute Extenion cases on moderate terms. For firt ther inf ormation adde ess

$$
\text { No. } 37 \text { Park-row (Scientific Ainerican Office), New York. }
$$

$\mathrm{O}^{\text {IL }}$ ! OIL! OIL!-FOR RAILROADS, STEAM-

 eers and machinists pronounce it superior to and cheaper than any ther, and the only oil that is in all cases reitiable and will not gum to any other they have ever used for machinery." For sale only b
the Inventor and Manufacturer, N. B.-Reliable orders filled for any part of the United States Europe.
M APES' AGRICULTURAL TMPLEMENT AND Seed Warehouse, Wholesale and Retail, All improved and sarom correspondenis promptly atte ar and mpements. Or

W. M. WHITTEMORE (SUCCESSOR TO
 and manufacturers' supplies.

PAGE'S LIME AND CEMENT KILN PATENTS anthracite conl, not mixed with the stone; will waiso burn rock


A PPEALS BEFORE THE JUDGES OF THE U. S. District Coust. from the final decisions, of the. Patent


VALLABLE MACHINERY-TO GEN MANU








PLANT \& BROTHER, NO. 14 NORTH MAINments street, St. Lsoagents for the de deale ofss in seeds and agricultural imple${ }^{10} 12^{*}$.
$\mathbf{N}_{\text {and Shave } 24,000}^{\text {EW }}$ Shincles in a day, for sale by WILL RIVE and Shave 24,000 Shingles in a day, for sale by
st
s. C. HLLS, No. 12 Platt-street, New York.

Patent machinery agency.-PATENTS PREARd articles purchased and zold on commission. THOMAS J .

W of ang inch to six inches bore Ge, FROM OM ONE-EIGHTH隹


C. L. GODDARD, AGENT, NO. 3 BOWLING


PECK'S PATENT DROP PRESS IS THE MOST


WOODWORTH PLANERS-IRON FRAMES TO


THE FOLLOWING VILLAGE GAS-WORKS ARE




A MESSIEURS LES INVENTEURS-A Port Ant.-L es inventeurs non familiers avecla Iangue Anglaise, et qui prefereraient nous communiquer leurs ivechationg en Franaiais,




[^0]:    ## 3ur Beadtung für ©erfinber.

    Erfinber, welde niøt mit ber engtiiden Єprade betannt finb, zönnen ighe Mittfeitungen in ber beutiden Єprade maden. Exizzen bon Erfin-
     abrefiiien an
    

