is allowed a large and munificent reward, not only on account of the benefits which he may have conferred upon his race, but that his brilliant success may stimulate other inventors to renewed and increased exertion. Rather than with a begrudging spirit grumble at the suc cess of such an inventor, and fear that he may profit too vision of the law has placed it in our power to bestow a vision of the law has placed it in our power to bestow a he has conferred upon the public. It is a peculiar feature of this case that the opposition to the extension does not come from those persons who have adopted and paid for the improvement but from certain rival iron manufacturers and contractors, who during the fourteen year of the existence of this patent have probably accumu lated larger fortunes from their repular business than Mr. Hyatt has from his invention The fate of the in Mr. Hor is a hardome at best No mater how the in and important his invention may be he must first and important his invention may be, he must first overcome the prejudices of the public, before he 1 s able to obtain any remuncration. By this time, already partially expired. Then, as soon as he has succeeded by his labors and perseverence in satisf ying succeeded by his labors and perseverence in satisf ying
the public of the advantages of his invention, and has the public of the advantages of his invention, and has system of piracy attempt to rob him of his property system of piracy attempt to rob him of his property Rich and powerful combinations are formed agains mit to prolonged vecations and expensive litimation $\underset{N i t}{ }$ to prolonged vexations and expensive litigation we brought aint of them, ure brought against them, retire broken-hearted from the contest and finish their lives in povery and want, while those who have robbed them reap all the pront. The applicant in this case is, to a certain extent, a living example of the truth of these statements. It was about seven years after the patent was granted before he succeaded in conquering the prejudices of the public, and ret as yet been prevented by inflingers fromgh he has not a ret been prill he now finds them ing against the further extension of his patent.

After having devoted more than fourteen years of the best portion of his life to this invention, he has succeeded in realizing a profit of $\$ 93,000$. This covers his profit both as inventor and manufacturer, as well as all that may be properly chargeable to his other patents. A thorough investigation of the case has satisfied my mind that the profit which the applicant has reccived from his invention is not sufficient, when compared with the advantages which the public have ex perienced from it

It is therefore ordered that the patent be extended for seven years from the 13th day of November, 1850.
IV. I. Bishop,

Commissioner

## FOREIGN SUMMARY.

At the recent meeting of the British Association of Social Science, Lord Brougham, at the advanced age of 82 years, delivered an address over two hours long with all the vigor and eloquence of a young orator. At this meeting many gratifying facts were reported by Mr. A. Baker, regarding the benefits conferred by the Factory Act upon the operatives in English factories. He stated that by the reduction of the hours of labor, there had been a marked and decisive improvement in the health of factory operatives, and an entire disappearance of the physical deformity and excessive mortality which prevailed among those classes previously. In the condition now brought about by that act there was no greater amount of disease, deformity, or mortality among factory laborers than others, while for some years previous to 1832, a marked and alarming deterioration of physical strength had occurred.

The Queen had attended the opening of the new waterworks for the city of Glasgow, at Loch Katrine, in Scotland, made famous in classic song as being the scene of Sir Walter Scott's "Lady of the Lake." It is a beautiful sheet of water, very deep and clear, and is conveyed about the same distance through a conduit as the Croton water at New York. Heretofore, the city of Glas gow has been supplied with water pumped from the river by huge steam-engines; it is now to be supplied by gravitation, and the expense will be much less. As a work of engineering it can compare favorably with some of the greatest achievements of ancient or modern times, and deserves to be very generally known. It embraces 13 miles of tunneling, $9 \frac{1}{4}$ miles of aqueduct, and $3 \frac{3}{4}$ miles of huge iron tubing. There are altogether 70 distinct tunnels, upon which 44 vertical shafts had to be sunk for facilitating the work. The first tunnel is 2,325 yards long, and 600 feet below the summit of the mountain. It was excavated from twelve shafts, which had to be sunk 500 feet deep. There is another tunnel 3,650 yarcls long, cut through blue basalt, at 250 feet below the summit of a lial. The rock in all the tumels is very
hard, being mostly gneiss interspersed with veins of quartz. In some places it required a new drill for every inch that was bored, and although the work was carried on night and day in some shafts, they sometimes could
not make over three yards of progress in a month. The undertaking was commenced three years ago, and was recommended by Stephenson and Brunel. It is remark able that the Great Eastern, the Victoria Bridge, and the Glasgow Water Works, with which the names of these great engineers are associated shourl have been com pleted just about the time they departed, and that they vere denied the pleasure of seeing their elesigns perfectly finished. The supply of water to Glasgow will be $50,000,000$ gallons per day, with a store sufficient for 120 days without rain.
The metal market has been somewhat depressed since our last. This is attributed to the unsettled state of political affairs. Banco tin has fallen slightly, but copper has somewhat advanced. The export of British coal has increased during the past year to the extent of 270,000 tuns, the whole being $4,499,956$.

issued from the united states patent offic for the weris ending novimima \& 1850

## [Reported Officially for the Selentifio American.]




26,005.-Corintha Alden, of Cassadaga, N. Y., for an Improved Clothes' Ironing $\Lambda_{\text {pharatas: }}$
I chim the arrangement of the hoo, $A$, with the follower, B, or it he purpose specifiect.
WWith this invention the operation of ironing is rendered so eas that it requires no bodily exertion, and in fact neither particular at tention nor great skill, The clothes are neatly folded in a boex, and ompressed by means of a follower, and in this state they are expesed to the influence of steam for a few hours. When properly folded thes berome perfectly smooth.]
006.-Ephraim C. Allen, of Le Roy, N. Y., for an Improvement in Corn-planters:
I clam the arrangement of the varions parts of the seeding ma orration conjoizitly, as an for the purposes in this specificution so
orth.
,007.-John Aspinall, of London, England, for a Improvement in Refining Sngar. Patented in Eng land Feb. 8, 1859
I claim the method described of effecting the blowing-up or melt
ing of raw sugars; that is to say, bv so supporting or upholding the ing of raw sugars; that is to say, bv so supporting or upholding the
nwar that sucessive petions will be broupht into contact with
the water, whereloy the sugar will be melted at or nesr the surface, the water, wherely the sugar will be melted at or nerr the
for the purposes and sulbstintially in the manner set forth.
26,008.-Merrick Bemis, of Ashburnham, Mass., for a Improved Compensating Pendulum:
What I claim is my improved mode of making a compensating pen-
dulum, namely, by arranging a part of the rod in the form of a bow or dulum, namely, by arranging a part of the rod in the orn of abow or
sectoril bend, and applying to such bed or part a clasp or obw of
metal having a different expansive ratio, the whole being substantial
ly as specitied
26,009.-Robert Blair, of Malugin Grove. Ml., for an
Improved Device for Applying Steam as a Motor:
I claim the combination with a radial lever, or frame, $\mathbf{D}$, and circua traction stenm-enkine, $B$, when the crank axes of said engine, ra-
diate from the central shaft, C , and the inner traction wheels are made of smaller diamater than the outer one, the whole arranaeged and
operated substantially in thic manner ond for the purpose set forth.
[The object of this invention is to supersede the various horse

 tance, churns, pamps, and the like. The inventien consists in plac ga a traction cagine on annular ways, and tonthed wheel or pulley, from which the power is taken as the engine passes around the annular ways.]
26,010.-Nelson Burr, of Batavia, Ill., for an Impreve
ment in Corn-shellers:
I chaim the peculiar arrangement of the section,, , provided with cetions, $\mathrm{d} f$, to effect the olject set forth, substantially as described
[This invention consists in the employment or use of a retating cyl and win. and tho shell, the later being provicd win a do cont combined cernsheller and colverinding mill is ultained, the machine being capable of beiug used ineither capacity by a very sim ple aüjustment.]
6,011.-Thos. Carpenter, of Battle Creek, Mich., for an Improved Shoemaking, Table
I claim the movalble bottom, D , arranged in combination with the
bench. A, and compartunent bo

6,012.-R. Carkhuff and B. Chalfant, of Lewisburgh Pa., for an Improvement in Steam Valves:
 vell
firth.

20,013.-I. C. Chase, of Boston, Mass., for an Improvement in Girth Buckles:
I claim constructing a buckie with wings, i B B, or their equivalents,
and furnished with holes, b b, subs:tintially as sct forthand for the
bjects specifed.
26,014.-B. S. Chmrch, of Mashattanville, N. Y., for ander-meters:
I claim, first, 'The arrangement of the partitions, og , in the troug br, F and pass through the measirin's buckets is prevented carrying off an
of the air in the clamber, D. Second, Arranging in the air-clamber, $\mathbf{D}$, a fonat, j , in combinatlo
with a valve, h. or its equivalent, sulstantially as and for the pur
poec described. vee described
26,015.-Gcorge Clay, of New York City, for an Im-
provement in Packing for Sliding Gas-lights
I claim the combination with the pipe, D, shell, A, and pipe, Bof will contract and press upon the burner or upon the es
of form a gas-tiglit joint, all as shown and described.
[This packing is so simple in its application and se efficient in it action, that it recommendo itself to all gis-fitters. It consists sim ply of an clastic tube, the ends of which are exparacd over two nipea, wherehy its central part collapises, thereby making a tight on the sides of a pipe which passes through said clastic tube, and the same time allowing the pipe to slide up and down.
26,016.-J. W. Cochran, of New York City, for an Im-

I claim, first, The xund, e, of copper or other wire, applied sub frame, 13 , attached to the rear of the projectile, for the purpose de
feribed. Second, Thacxpandiug ring. Du applied substantially as described
in comblination with a conicil surf fice, f formed bchind a shoulder
on the front part of the proctile

26,017.-J. W. Cochran, of New York City, for an Improvement in Projectiles for Rifled Orduance:
provement in Projectiles for Riffed Ordnance:
I cletim the application tan proietile for riflel ordnanco of a cove
nis, or of one or more bands, composed of a coil or coils of copper ther wire, wound upon its cxterior, subtan an en described for the

6,018.-D. W. Comstock, of Chicago, Ill., for an Improved Railroad Gate
I cluim placing the ends of two pairs of adioining raiks, $B^{\prime}$, on a
rising and falling platform, $\mathbf{C}$, when the latter is suspended from the shoriank, d, of crank lever, de the long arms, e, of which carry
the puacls. , of a gate, substantially in the manner and for the pur-
pose described.
rThis inven
here railvoads mmon road. The through towns, or wherever a railroad crosses us the last car has passed it closes again, so that nothing can pass int the road which might cause an obstruction to the approaching train
26,019.-Wm. F. Converse, of Harrison, Ohio, for an
Improvement in Railroad Car Springs:
I claim, first, The combination of a clamp, fis, with a disk spring Second, Infoconnection with the above. I claim the series of annula purpose described.
,020. - N. B. Cooper, of Gratis, Ohio, for an Improved Churn-dasher:
Inc claim the arrangement of the arms, d d, on the two points, b' b
ne on
26, 021. - Edward Crane, of Dorchester, Mass., for an Improved Steam Boiler:
I claim a fire-box surrotnded by a water-jacket, the combination of
the tubes in the fire-ber, with the becs or chanlers, is decirilocd so that a number of tubes shall have the same connections throug
the said boxes or clambers with the water-jacket and stcam chambit nit shall alse be capable of bcing put in andl tiken out of the boile the same time.
I claim the use
nected with the witer-jacket and stcam chamber threund the box
or clannbere, a and
 the lower end as shall be converted into steam in the lower portion,
and the stam be superlhatell in the upper yortion before it is dis-
clicel charged inte the steam chamber.
Inse of tubes in the steam chamber for discharging the team gencrated in the tubes in the fircolbox, so bent that the supe
heated steam issuing therefrom siull pe discharyed inte a drum around the chimncy and against the chimncy, in the firstinstince and then afainst the surface of the water, as described.
I alse claim the use of the drum around the chimer in the steam
chamber for securing the discharge from the tubes, and checking the
 isturbance of the water throngh the whole extent of the stean
chn miler, , arransed and constructed ascdescribed.
I clain the combination of the blow ofs cocks, $e$, with the stnp cock I claime the
go for the peribed.
Iescribed the use of the tube coiled around the chimner, for the par-
Inse of tikine the theam from thle steam chamber, at the point where
it has the highest temperature.
6,022.-Edward Crane, of Dorchester, Mass., for an Improvement in Railroad Car Wheels.
I claima whel having its rim and tire secured togethicr by india
26,023.-Munson C. Cronk, of Aubian, N Y., fur an
Improved Clothes' Dryer:
 W AY Z, and the radin arms, CD EF G, the ring, $\mathbf{V}$, subatanticily

26,024--C. A. Desobry, of Plaruemine, La., for an Improvement in Pans for Evaporating Cane Juice
 Anc thi
And in
destems
And in conbination with the said heater's, connections, nad trion
systems of pipes. I claim the nirs, b b , passing throush the said ters, substanticilly as described.

Ensed within an evaporatio stem of connections witht two serica of pips prianced Dclow the pa or supplying steam to the said leaters and conveying away the wate f condensation, whereby I am enabled to present an extensive an very efective heating staface the hquid or substance within the ran, and to prevent effectively any colifetion of water uph the said urfacee.]

26,025.-Jacob Edson, of Boston, Mass., for an Im-| ively on the pulley, C, and shoe, D, to operate as and for the purpos p.ovement in Pumps:



 divisionplate, $K$, nnd the cylinder, $I$, whereby the body of the pump
is divided into two distinet cnambers, the one serving as an air or
water chamber, and the other as a vacuum chamber, is set forth.
26,026.-Thaddeus Fairbanks, of St. Johnsbury, Vt., for an Improvement in Letter-scales:
 resting on knife edges of a bar, I, extended from the steel yarl, ns
ppecifice but with bar steel pard, 1 , nid de without any fork, nd
extended iuto a stationary taple or top,
ite the whole beingarranged in manner and to operate as specified.
26,027.-John M. Forrest, of Norfolk, Va., for an Improved Sash-fastener:
Iclaim the springs, $C$ and $C^{\prime}$, and the ratchets, $G$ and $G^{\prime}$, as con.
structed in combination with the lever, $D$, and cord, $F$, operating as
described, and for the purposes set forth.
26,028. - Lconard D. Gale, of Washington, D. C., for an Improvement in the Manufacture of Gas:
I claim the treatment of bitumen, bituminous conl and their dis-
tillates, or their equivalent, by firt converting the volatile portions to a state of yapor, at a temperature below a clierry red heat and
then forcing the vapor so generated into contact vith a red-hot surface in such a mannerthat the gasgenerated may be instantaneously
removed from the sifid heated Burface, and thus be prevented from
further decomposition.

26,029. -Thaddeus A. Granger, of Wilson county N. C., for an Improvement in Machines for Hoist ing Mare, \&c.:
I claim the construction of the captimber, $C$, in combination with
the supporting timber, $D$, which forms the swivel, to alluvi the Deam, at desired.
26,030. - Leonard D. Gale, of Washington, D. C., for an Improvement in the Manufacture of Gas.
I clalm the treatment of all woody, reasi nous and fatty bodicos, as
well as all tarry matter, except bitumen,
distillates, by firsinous conal and oother distillates, by first converting the volatile portion to y apor at at at tem-
perature below $n$ cherry rerl heat, ansl nfter ward forcing the vapor so generated into contact with a red-hot surface in such i manner thint
the gas generat ed thereby may be instantly removed from said heated都
26,031.-Noah E. Hale, of Nashua, N. H., for an Improvement in Applying Pressure to Top Rolls of Drawing Machinery
 26,032.-E. H. Harris, of Palmetto, Ga., for an Im. provement in Carriage-seats:
I claim attaching the seat, $B$, to the body, $A$, of the vehicle by
means of the bare, $a$, and rols,, , or their equivalents, so no to permit means of the bare, a, and rods, c , or their equivale
of a ccrtain degre of 1 diy of the scats, or move
pendent of the bods, A, for the purpose specified.
CThe object of this invention is toattach the sent of a vehicle to ite body in such a manner as to allow the seat a certain degree of play or movement indenendent of the bocly, so that, in case the vehicle is
suddenly stopped or started, the scat will cield or give and prevent suddenly stopped or started, the scat will field or give and prevent 26,033.-J. P. Harris, of Byhalia, Miss., for an Improvement in Plows:
I claim the combination of the separately adjustable and removalle
mold-bord. .E with a subsoil share, C, situnted behind and blion it:
the sid subsoil share being also scparately removable, to allow the the suid subsoil share being also separately removable, $t$.
separate use of said mold board, substantially as specified.
26,034.-Horatio F. Hicks, of Grand View, Ind. for an Improvement in Machines for Pulling and Cutting Cotton and Corn-stalks:
I claim the combination, of the reel, $D$ paddle, 1, drum, $G$, and
cutter, $I$, operating substantially as and forthe pur pose set forth.
26,035.-Wm. Cleveland Hicks, of Boston, Mass., for an Improvement in Sewing-machines:
 equivalcnt, duringits entire upward motion; secondly, held at rest,
until the needle eye is at or near the material to be sewed, and
thirdly, to be disengaged and allowed or caused to fall by its own gravity, or by the gasistance of $n$ spring for the purpose of gaining
the amount of motion lot by remaining rit reat during the first purt of
the downward motion of the needle bar, all substantially as described
and specified.

26,036,-N. E. Hinds, of Cooperstown, N. Y., for an Improved Horse-shoe:
Iart of the first, The wider and thicker enlargement of the toe or fore Second, I claim the trough-like concave furm of the underside of
the shoe and the raised edfee, $B$ B and C, that ensue, as a conse-
quence of the construction of said concave torm. quence of the construction of faid conca ve form.
Thir I I claim the conetruction of calks made. in a $V$, or double $V$.
form, all of which is constructed and claimed substantially as and form, the purposes set forth and specified.
26,037.-A. D. Hoffman, of Belleville, Mich., for an Improvement in Cider Mills: I claim the combination of the crushing rollers, $B B^{\prime}$, pressure
rollers, IF , and endless apron, $G$, when the crushing rollers, $B B^{\prime}$,
 sure roller, E, providcd witht the yielding bars, e, nnd
ing, g , substantially $a s$ and for the purpose set forth.
[The object of this invention is to obtain, within limited dimensions, a machine that will crush apples and express the juice therefrom with but a small expenditure of poirer; the crushing and expressing operations being performed simultaneously and the juice separated from the pumice. The invention consists in the employment or use of tivocrushing rollers, onc being toothed and the other correspond. ently recessed toreceive the teeth of the former one, and using, in less apron; one pressure roller being provided with yielding longitudinal bars, and the whole arranged and combined to operate in sucha minner to tfect the desired result
26,038.-S. F. Lewis, of San Francisco, Cal., for an Improvement in Pulley Blocks:
I claim, first, The arrangement and combination of tho pulleys, $\mathbf{C}$,
shoo, $\mathbf{D}$, and eccentric, $E_{\text {, within the block, } A \text {, as and for the purpose }}$,
sloe, D , and eccentric, E , within the block, A , as and for the purpose
speecifed.
Siecond, The teeth or projections, b , and stop, c , furmed respact.

## [Thisinvention consists in the employmentor use of an eccentric

 and shoe placed within the block, and so arranged relatively with the pulley that said parts, when used in connection with stops on the movement of the rope, checking or the attendant to control the article to be elevated is at the proper hight and the power isto be de tached, and regulating the descent of the articleas may be required The invention is applicable to all purposes where stop-blocks are used but is more especially designed for discharging cargoes from vessel and similar purposes where a horse or other animal is emploged for elevating the articles.]26,039.-James P. McLean, of New York City for an
Improvement in Abdominal Corsets:
I wan an corset or belt with cork brackets or projectiong B B B; on shown in the drawings, in combination with the abdominal pads, A1
A1 A2 A, which form a part of the lower section of the corset or Al A2 A2, whinch form a part of the lower section of the corset or
bandage, and are held in their places by the same, in themanner and
for the purpose set forth in the drawings.
26, 040.-James McNamee, of Easton, Pa., for an Im proved Knife-cleaner:
I claim the upper socket, $D$, with its pad, $I$, operated by the socket socket i.s rendered adjustable in respect to the rescrvor the lowe when
the seve ral parts are arranged in respect to each other, as and forthe the seve nal parts
26,041.- Allen N. Merrill, of Batavia, IIl., for an Improvement in Secding-machines:
I clalm, first, The employment or use of a longitudinal ad justable
shaft, H , provided with cylinders, $J$, having different sized in connection with prrforated bars, g, sidea, $i$, and plate, $k$, arranged
to operate substantianly as and forthe purpose set forth Secind, The arrangement and combination of the spout, 1 , conduc.
tors, K, shoe pouts, $L$, and elevating arms, ${ }^{\text {E on shat, }, \text {, connected }}$
to the conductors, $K$, the whole being arranged substautially to the conductors, $K$, the
for the purpose set forth.
[This invention consists in a peculiar arrangement and combina tion of parts, wherebs different kinds of seed may be planted with be andirell be required.]
26,042.-John H. Miller and Samuel Albright, of
Grafton, Va., for an Improvelnent in Portable Gas
Apparatus:
We clam a portable ga someter, $C$ furnighed with a central gas
fischarge pipe, E , a central guide end, S , $\begin{aligned} & \text { fexible con necting pipe }\end{aligned}$
 a railrond car, or other traveling apparatus, which is subject to a
jolting or vibbating motion, for the purpuge of supplying gas to na
series of gas-burners, substantially as und for the purposes set forth.
26,043.-Charles Minzheimer, of New York City, for
an Improvement in skirts:

26,044.-Oliver P. Moran, of Haynesville, Mo., for an Improvement in Corn-planters:
I claim the combination of the curved concentric aperture, o, in the
bottom of the seed-box, $G$, with the sliding strike, $N$, and measuring
 the dropping whw 1 D as specificd.
I aldo claim the combination of the concentric vibratory arm, $h$, and projecting pia, 1 t thereon, with the measuring holes, $m$ ni, substan-
tially as pece:ci, for the purpose of imparting the proper movement
to the dropping wheel, $D$.
I also claim the arrangement of the instant valve, M, upon the curved weighted hinge,, which is pivoted to the sides of the cham
ber $G$, in a pootion nearly vertically over the valve, in combination with the sloted connecting-roc, s for the rurpose, of producing a
maperior quickness and delicacy of action on the valve, substan.
thuly as gecified tilly as specine.
045.-Austin W. Moses and Joseph A. Springer, of Philadelphia, Pa., for an Improvement in Casting Car Wheels:
by pouring the central portion of of casting rainel, independendenty and in advance of the tread, to allow suid central portion to cool and con-
tract to an desired tract to any desired degree before adding the metal forming the
tread of the wheel; when said end is accomplished by the em. ployment of a ring, composed of any convenient number of seff-
mente, $\mathrm{F} F$
ation or their equivalents, and arranged to operrete in combin-
manner and for the pur part, D, of the fask, substantially in tho
26,046.-Jacob H. Mumma, of Harrisburgh, Pa., for an Improvement in Straw-cutters:
I claim, first, The emplormpont of a hawk-bill cutter, a a a, con-
structed and arranged as described, in connection with a cutter bar c. of a straw-cutter, operating in the manner as and for the purposes set forth.
second,
ins the
stantially in the from dirt. but also as a feed to the rollers, substantially in the mann er and tor the purposes set forth.
Third, I claim the employment of the rib. d", feed. rollers for
crushing nnd dividing the shrot of material to be cut, when arranged and combined with a ha
26,047.-Adrian V. B. Orr, of Lancaster, Pa., for an Improvement in Sawing-machines:
I claim the oscillating lever, D B, in combination with the spring,
T , and feed-lever, 11 , when constructed as described, and operating
26,048.-George R. Osbrey, of Providence, R. I., for an Improved Heating Apparatus:
I claim the combination of the alcohol reservoir and vaporizer with liquid pipe, E, and a vapor pipe, F, said pipes acting in such connec-
tion tomanintan a constant eevel within he vaporizer, in the manerer
and for the purpose substantinlly as set forth. and for the purpose substantinhly as set forth.
I alloo chim, combining with such device for vaporizing a conical
isseminator, I, and a convex deftector, $K$, arranged substantially 26,049.-George W. Parrott and Charles K. Bradford, of Lynn, Mass., for an Improved Machine for Cutting Boot and Shoe Soles:
We claim the combination and arrangement of an automatic feed,
sole by eole, with the cutting-knives, substantially as described. 26,050.-Hiram G. C. Paulson, of Flatland, N. Y., for an Improvement in Clarifying and Refining Sugar Juices, \&c.:
I claim the apy lication of alcohol, in conaunation with water, in all
he proport iong as stated, and at the temperature of boiling of said combined liquids the the melting o. dissolving boiling or treatin: riw
Bugars or juices of saccharine substances, as described, for the pur-
pose and to the effect of produang the intcinted makiog and refining

26,051. W Wm. Pellet, of New York City, for an Improved Cooking-range:
I cllimim the combination with a central fire-grate having openings which can be adjusted so that the rexisting may elther be effectcd in heat radiated from the gides
and for the purposes set forth.
[This invention is an improvement on a range patented by the same inventor, August 10,1858 , which is rendered therebs one of the mostefficientand economical ranges now in the market. The ronst ing-chambers on the sides of the fire-place will be found a very valuableaddition by every housekeeper, and the arrangement of the damperscommendsitself by its neatness and simplicity.
26,052.-Edward R. Pye, of New York City, for an Improved Sweat-knife for Cutting Hat and Cap Linings:
I claim the emplorment or use of the knife on the projection, $C$, of
the bar, B, and secured thereto by the set
treew, , in connection with
 [This invention relates to a tool or implement for cutting out, and perforating for sewing, the trimming of hats and cap technically termed "sweats." The object of the invention is to economize in the construction of the tool, render them far more durable than usual, and soarrange the parts relatively to cach other as
to insure a perfect adjustment of the same at ail etages of their wear.]
26,053.-John Robinson, of Eli, of Sharptown, Md.
for an Improvement in Portable Turn-table:
I claim the ndustable sliding turn-table, E E G G, the whole con-
structed and operating substantially as specified for the purpose set
26,054.-Josiah M. Read, of Boston, Mass., for an Im provement in Stoves, Ranges, \&c.
I claim the application and construction of the flue, $G$, with its
door, $h$, substantially in manner as and for the purposes described. 26,055.-Peter Reynard, of New York City, and Victor Varin, of Brooklyn, N. Y., for an Improved In sect Powder-blower
We claim, first, The vall, c , attached directly to the chamber or as set and actin, to bow the powder out of the neck or chamber,
purposes and as apecified. purposes and as apecined.
Second, We claim the holder, composed of the rod, $c$ and ring, $f$
when provided with the rod, ${ }^{\text {a }}$ or its equivalent, and the button, $h$
26,056.-C. Bird Pate, of Moore's Mill, Ind., for an Improvement in Stump-extractors:
I claim the arrangement of levers, EF and L , nud snar, II; the
whele being for opration conjointly as and for the purpose set forth
26,057.-Israel M. Rose, of New York City, for an Improvement in Sewing-machines.
I claim the combination of two needles and $n$ shuttle, or their
equivalents, to operate substantially as set forth, for the purpose of equivalents, to operate substantially as set forth, for the pur
producing a stitch of the structure described and represented.
[This invention consists in a novel mode of combining and opera of a novel character with three threads.] 26,058.-Christian Charles Schieferdecker, of Baltimore, Md., for an Improvement in Stoves:
I claim the combination of the central air-space, f forntaining ma-
terial refractory to he:t, with the series of surrounding ascending
and descending amoke-flues, no p, when arrauged substantially as set forth, for the purposes described.
26,059.-Charles Scoficld, of Adams, N. Y., for an I clamprovement first, The auxliary feeding plate o, with pins or teeth on
surface, in combination with the pertorated sloted main feedingplate, $N$, when said plate, $Q$ combines in itgelf the properties of $\begin{aligned} & \text { a } \\ & \text { per }\end{aligned}$ plate, N1, when said plate, Q, combines in itself the properties of a
pepring and of a feed-bar, aud is otherwise constructed and arranged
Bo as to operate in the manner described. Bo as to operate in the madne of the pivoted-lever, $S$, adjustable col-
Second, The arranqcment
Iar and needle-lever, D, in the relation shown
 poge set forth.
 forth.
Fourth, The looper, $W \times U T$, when the part $U T$ is made rigid made ylilding or with a spring, and formed or arranged on one side
of part U T, and in the relation shown to of part U T, and in the relation shown to a projection ou the peri-
pherical surface, $x$, of the actuating cam, in the manner and for the
purpone purpose described.
Fifth, The combination of the adiustable intermediate plate, 13 ,
with the jaws, $T \mathrm{x}$, of the looper, eubstantially as described, for the
 ot be $\begin{aligned} & \text { s titc } \\ & \text { set ferth. }\end{aligned}$
[This invention consists in an improvement in the feeding-device rial being sewed, whereby a more positive movement of the mate the stitches, arc insured; and, in sewing thin fabrics, the liability to pucker is muchreduced. Italsoconsists in a certain mode of applsplying the pressure-pad, in combination with the needle-lever or of the operator, while the needle is in the material being operated upon, to permit the cloth to be turned freely for the sewing of curved seams or stitching of ornamental figures, or may be allowed to remain stationary upon the material in sewing etraight or very slightly curved seams. It also consistsin a certain construction of looper, ap-
plicable either to the loopers of machines for sewing on what is pheable either "double-looped stitch," which constitutes the subject of Letters Patent No. 9,592, or to those for sowing the "chaiu-stitch," by which the missing; of the loops by the needle, socommon in most machines, is more effectually prevented. It further consists in a certain contrivance applied to a looper, for the purpose of adnpting the same looper, without the addition or removal of one of its parts desired.]
26,060.-James Stimpson, of Baldwinsvillc, Mass., for an Improved Machine for Making Box Joints:
I claim, frrst, The combination of the hollow bit, $r$, the cutters, $w$
and d2, or their equivalents, operating as sct forth, to form the ten-
Second, In combination with the above, 1 claim the augur-bit, 12 ,
operating as described, to form the holes, c , 10 correspond with the tenone, a, as set forth
26,061.-Chester W. Sykes, of New York City, for an Improved Carving-knife
I claim the combination of a knife and shears, substantially as de-
scribed, as an instrument eapecially ndapted for carving meats.

26,062.-Harvcy Trumbull, of Central College, Ohio, for an Improvement in Striw-cutters
 ral to the Enife, substantiully as speciized.
26,063.-Nathaniel Waterbury, of Fond du Lac, Wis for an Inprovement in Gates:
I claim the arrangement and combination of the pandulous-rod, J ,
and weight, K . witi, the axis of the pulley, H , as and for the purpose
6,064.-James Whitehill, of Frederick, Md., for an Improvement in Hot-air Furnaces:


 describes, and the hei
 substantirily in the ensuner and for the purpuse set torth.
(Mis furnace hastivo separate chambers, and thus secures the ad vantige of having a fire in one chamber, with a deep bed of coal in moderately cold weather, and fire in both chambers in very cold weather. The cold-air is cravyu from the foor of the building int he furnace, and hicated before it re-enters the same. The draft applied at all sides of the furnace, and thas the burning of the fued $a_{\text {p }}$ perfect minner, winever be the drection of the wind-antent effected. This wue to be

26,065.-Ferdinand Wuterich and Jacob Kœerber, of
New York City, for an Improvement in Cotton gins:
We clism the arrangement of the finger-shaff, C and D , operating

 tially as specificd.
26,066. -William C. Allison, of Philadelphia, Pa. (as
signor to himself and Jolm Murphy, of same place)
for an Improvement in the Mode of Confining the
Seat of the Driver on City Railroad Cars:
I clism the combination of the byyy, D, rod E , with its collar, f

26,067.-Henry C. Brown, of Buffalo, N. Y. (assigno to Charles O. Brown, of Dalton, Mass.), for an Improved Handle for Smoothing-irons
I dnim m a ventilatede dmonothing-ivon handle, constructed for the pur
26,06s.-Willian E. Cooper, of Dunkirk, N. Y.. as signor to Charles 1). Gibson, of New York City, for an Improvement in Railroad Car Springs:

26,069.-John Danner, (assignor to himself and J. M Jay) of Canton, hio, for an Improvement in Sleeping-cars:
I claim the combination of the hinged back $\mathrm{d}^{\prime}$, with the hinged

26,070.-l'earson B. Kitchen (assignor to William H. Marshall) of Philadelphia, Pa., for an Improve ment in Apparatus for Heating Hydroccarbon Li quids:
Clamm the application to gas penerators of a hot-air chamber as
previously described, and the submerging of one ormore air $\mathbf{n}$ ines


26,071-A. H. Knapp (assignor to himself, E Barstow, and A. R. Trowbridge), of Newton Center, Mass., for an Improvement in Lamps
I claimethe wick, portion, , arranged and operating substantially
26,072.-Ambrose Lovis, assignor to himself and Chas. E. Hodges) of Boston, Mass., for an Improvement in Composition for Detergent Purposes:

for the purpose specinied.
26,073.-James A. Whipple, of Boston, Mass., assignor to himsclf and George A. Stone, of Roxbury, Mass., for an Improvement in Method of Driving Piles:
I claim the method or rrocess ofdriving piles by exploding charges of guupowder or its equivilent between the pile nad a fulcrimm or re
sistance, so thant the force of the explosioi
act to drive the pile in the direction of its leisth, or neirly so.
26,074 .-Joseph Barrians, of Caledonia Terrace, Queen's Road, Peckham, County of Surrey, England, for an Improvement in Portable Locomotives:






## Re-ISSUES.

De Witt C. Cummings, of Fulton, N. Y., for an Improvement in Straw-cutters. Patented Aug. 7 1855:
I claim first Operating the adjustable lower feed-oller by means
of a spur-whicel hung in a vibrating frame or yoke, the axis of which is connected with the said roller by means of an universal coupling,
when said roller is supported on spring bearings independent of each when said roller is supported on spring bearings independent of each
other, substantinlly as and for the purpose specified.
Sceond, fine employment of a cylinder provided with a knife or
knives which have an uppard cilindrical cut, whent he anme is ap-
raiscd with two independent feed-rollers, the lower one of which being sulpmited on a spring or springs in such a manner that it cau
 e cut, substantially as set forth
William M. Henderson, of Baltimore, Md., for an Improvement in Pumps. Patented Oct. 4, 1859: The two ball valve cages with the suction valves in therr interior,

 nately disciarised from the ends of the pump barrel in direction of
the etroke: the whole being onerated and constructed substantially in der and or the purposes set forth
John H. Lyon, of New York City, for an Improved Lock and Detector. Patented Sept. 13, 1859: I claim combining with a padock or an, lock provided with a
 emsval or breaking of suid tube
detector, substantially as pet forth.
[An engraving of this lock will appear soou in this journal.]
a ditional mprovement.
Mortimer Nelson, of New York City, for an Improved
Gold-washer. Patented Oct. 4, 1859:
I claim. first, Imprirting to thig shinft, $p$. and the series of pans
herren, nn intermittent or osillatins movement for the purrwoses and s. speciticd, tand in combination with the shaft, p. phin pens have
ing the intermittent or orscilating movement set forth. 1 claim the caine h, and ball, i, to give the vertical or rigging movement as spe-
sifecon, The concial hoods or funnels, 0 oo, in combination with he pans, $n \mathrm{n}$, for the purposes and as specitied.

## EXTENSION.

Thaddeus Hyatt, of New York City, for an Improve ment in Vault Covers. Patented Nov. 12, 1845 Re-issued April 3, 1855
late, with the apertures so small that pratrons or or porforated metallic

 (over pre surface of the grating or perforited phite, for preventin
abrasion or seratching of the glast, substantially as specified.

F. B. C., of La.-Your fear that, if you should employ us to get up an engraving end publish a description of you invention in the Soiznflo Aviran, the printing of so large an edition fron 12 would wear ont the euziaving, is un-
founded. The engrovings which are prepured for this pancr founded. The engravings which are prepared for this paper
are not printed from, at all ; the impresion being taken from electrotype plates, so that the engravings are furulshed to the parties ordering them, just as perfect as they came from the hands of the engraver. It we printed from the type and wood-cuts as we formerly did, when our circulation was much smaller, and as every other paper of like character now does, your apprehension would be well founded; but as it is, yourengraving will not be in jured by us in the lenst, and youcni judge of the bencfit you will derive from having your invention brought before the publi through the medium of a paper of the standing and circulation of the Stientrin Amercan. It isonly buch good inventions as yours that we solicitit the privilege of illustrating in our columns, while those of indifisrent merit we cannot pubish. Thie engravings in the Scientific anerican are executed expressly for it; none are ever inserted hy us after their appearance in any other American publeallo. So the reader, when he recelves his piper weekly. may depnd upon seins in, wation of oonething which your incuirics through our correspondence column the fors is to gour in wo the information you solicit, and the second it to the thousand-and-one applications we receive, requesting us to insert becond-hand engravings of second or third-rate inventions in our columne. We publish paper for intelligent renders, and we will not impose upon them or mar our pages with poor illustrations. Spoke Machines.-N. Chapman, of Lansing, Mich., wishes to correspond with eome manufacturers of lathes for turning spokes.
W. G., of Ohio.-We cannot encourage you to spend money on an application for a notent on D. D. P., of N. C.-We think it advisable not to publish your theory. It may be correct, but it might lead to a contro F. B. G., of N. Y.-We do not wish to dispose of those little engravings 5 ou refer to, but will supply yon with electrotypues for 50 cents ench. Your idea of a motive power is absurd. You cannot make a water-wheel pump up water to drive itself any mor
than you can lift yourself over a fence by puiling-up the satt of your pantaloons
D. R., of N. Y.-Sulphite of lime is prepared by saturat ing carbonate or milk of lime by sulphurous acid. Sulphurous acia is proluced by burning roll lrimstone in the air, and milk of lime ented a corn-sheller in April, 1859, resides in Springfield, Mass The other matter in your ketter we shall thoroughly investigate as soon ns we can find time.
S. S. M., of S. C.-You will find our promised article on heat, in reply to your question, in another column.
H.L.C., of Ill.-To produce the electric light, take two small pieces of the hard carbon which collects in gas retorte,
 from the zinc plate, bring the twa points together, and then draw them slightly apart.
I. B. W., of Conn.-Lenses are ground by machinery.
J. M. J., of La.-The statement which you cite from Urc's " Dictionars of Arts," pase bise, is very curious certainly. A smooth-bottomed pan will evapurate over flame as fast as a
corruated one, having three times the surface; while, if both pans corrugated one, having three times the surface; while, if both pans are immersed in a fluid, the cvaporation is jusst in proportion to the surface of the bottom." You think "the dirference is due to the density of the fluid medium pressed directly in contact with the the old books on science used to be full, but which aici less common in this day. Students of nature are very gencrally learning the grat truth that tree live surrounded by mysteries, which cannot be explained. For our own part, we can understand Ure's statement, but cinnot understand your explanation.
R. 'T. C., of N. Y.-You cannot obtain a patent for the new use or application of a well-known mechanical device. Various alloys are used for bell metal; 80 per cent of copper and $£ 0$ of tin is salato be as good as any. .A stech bar, bent in thof triangle, gives a very clear, sharp sound when struck.
J. A. M., of Pa.- Nlmost every manufacturer of friction matches has his own peculiar receipt for preparing lis conposition. We give you one. Like 6 los. of fine glue and soften it with water to a smooth jelly, heat it to a temperature of $156^{\circ}$ and rub 4 ibs. of phosphorus into it, then add 10 lise. of saltpeter. then 5 lbs. of red leaa, and lastly, 3 bs. of suml, mix the whole into a uniform paste. Persons employed in dipping matches in close rooms are subject to a terrible disease of the javes, which results in the loss of the teeth, and in many cas
Enquirer, of Quebec, Canada.-Your letter is interesting, but anonymous. If you had given us your tame we should have published it.

## Money Received

At the Scientific American Office on account of Pratent Office business, for the week ending Saturday, Nov. 19, 1859:J. G., of Conn., $\$ 30$; R. I. R.. of Pa., $\$ 30$; R. M., of Pa., $\$ 30 ; \mathrm{G}$. M., of Conn.. $\$ 33$; T.S. U., of N. Y., $\$ 3.2$; T. II. W. \& Bro., of Ga.,



 Mass., $\$ 25 ; \mathrm{L}$. O. C., of N. Y., $\$ 10 ; \mathrm{C} . \& \mathrm{Z}$. W., of N. J. $\$ 33$, E . A. G., of Conn., $\$ 33$; F. $\&$ I., of PAL, $\$ 25 ; M . \mathbb{C}$ B., of R. I., $\$ 33$; A
 J. C. S. of Mass, $\$ 35$; D. C., of N. Y.. $\$ 33 ;$ J. A. A., of Inl., $\$ 25$;
N. S., of Minn., $\$ 30$ G. G. S., of Coun., $\$ 39$; E. D., of Wis., $\$ 33$;

 $\$ 30$; J. D., of Ill., $\$ 25$; P. II., of Pa. $\$ 57$.
S. W., of N. Y.. $\$ 25$; J. B., of N. Y ., $\$ 55$.

Specifications, drawings and models belonging to parhies with the following initials have been forvarded to the Paten Ofice during the week ending Saturday, Nov. 12, 1859:
D. M. H., of Conn.; T. VanD., of N. J.: I. F.., of La.: W. W. W. of Mass. (2 cases) ; J. D., of Ill.; S. T. P., of Ga.; J. S. C., of Pa J. B., of N. Y. J. Y. C.. of Mass.; W. B. D., of Conn.; J. \&. I. I., of
Ala.; G. W. R. B. of Ja. (3 cases) ; C. B. K. of Pa.; II. E. W.. of Ala.; G. W. R. B. of Ja. (s cases) ; C. R. K. of Pa.: II. E. W.. of Mass.; N. JE, of Wis.: J. C. S., of Mass. T. S. U., of N. Y.: A.
P,T.. of Ga.i. N.C.K., of Mass.; II. A. R., of Ohio © C. II., of N. , T.. of Ga.; N.C.K., of Mass.; 1I. A. R., of Ohio ; C. II., of N Y.; J.II. S., of C. w

## Hints to our Patrons.

Baci Numibers. - We shall hercafter commence sending the Scinstrific anerrican to new subscribers from the time their subscriptions are received, unless otherwise directed the back numbers can be supplied from the commencement of the volume to those who may order them. It is presumed most pe sons will desire the back numbers, and such as do will please to: state at the time of gending in their subscri
Infallible Rule-It is an established rule of this office to stopsending the paperwhen the time for which it was prepaid has expired, and the publishera will not deviate from that stand ing rule in any instance
Patent Claims-Persons desiring the claim of any in vention which has been patented within 14 years can obtain a copy by addressing a note to this omice, stating the name of the patente

MATHEMATICAL INSTRUMENTS. - CASE
If No. 5in. Wood-box, with brass instruments set in a A tray so


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phia.
FOR Sunpatented). Sunds SRAL NEW INVEN'IONS (unpatented). Funds only wanting. Address A. BLAKE,
21
Crescent, $\mathbf{N}$.
$2^{*}$


$\$ 2$ A DAY.-FEMALE AGENTS WANTED, ON



CATARACT WASHING-MACHINE. - PAT-


