EXTRAORDINARY PROGRESS OF AMERICAN INVENTIONS IN EUROPE.d
Patents for the following inventions have recently been secured in England, through the Scientific American Patent Agency, farther showing the great and daily. increasing progress which American inventions are making in Europe:-
Molding Candles.-Patentees, Honry Ryder and Ho ratio Leonard, of New Bedford, Mass. This is an improvement in the apparatus for manufacturing caudles, especially those made of paraffine or other substances Hiable to adhere to, and to be broken in the operation of drawing from the molds. It consists in the employment of a trough at the top of the molda, of sufficient atrength to bear the strain requisite to draw all the candles from the set of molds at once, and in the adjust ment of springs for closing the lower ends of the molds for forming the tips.
Folding Frames for Unbrellas, Tents, sc.-Patentee, L. K. Selden, of Haddam, Conn. This umbrella frame is made with joints in the ribs, the inner ends of the ribs being fasteried to a ring which slides on the central stick, so that by drawing down this ring, the ribs fold inward upon each other, occupying but half the space in length of the ordinary umbrella. The central stick also has a joint in the middle, so that it may be tolded. When extended, suitable braces, ceming nearly in line with their joints, hold the frame in position. Tho same device is applicable to tents and awnings.

Printing Addresses on Newspapers - Patentees, Robert W. and Daniel Davis, of Elmira, N. Y. This is one of the best of the numerous plans which have been devised for printing addresses on newspapers. Each address is cut on a small wooden block, and the blocks are fastened on belts which are slipped upon rollers, so that by the rotation of these rollers, the blocks are brought in succession above the paper to be printed The patent also covers an invention of a very simple machine for punching or forming the letters in the wooden blocks.
Maohisery for Cutting Dovetails.-Patenteas, Thomas H. Burley, Charles H. Phelps and William J. Lowerra, all of New York City: This valuable invention was fally illnatrated and described on page 193, Vol. II. (now series), of the Scientific Ayrbicas. The dove tail grooves are cut in the ends of the-boards or planks by means of swifly revolving cutters; the board being tipped at an angle, first in one direction and then in the opposite direction, to give the proper taper to the gropves.
Paeking for Pistons.-Patenteos, Charles Lowery, of Brooklyn, and Horace A. Miller, of New York Clty. This improvement relates to that class of piston pack ing known as " metallic ring packing." It consists in producing the expausion of the packing ring or rings to make it or them fit the cylinder in which the piston works, by means of two levers which are fitted to the central hub or boss of the pistor hoad, and are made to act on a cut metal riag fitted te the interior of the packing ring or rings.

Ships' Stores.-Patentee, George A. New, of New York City. This is Slator's ship stove, described and illustrated ion page 288; Vol. II. (new serios), of the Scibrtific Ambrican. The stove is hing in gimbals, like a ship's compass, so as to keep its top level notwithstanding the rolling of tho ship; and the invention relates to the mode of leading the pipes out of the joints or journals by which the stove is suspended.

Sun Shades or Roller Blinds.- Patentee, Valoras Drew, of New York City. This patent covers several improvements in the mode of hanging window curtains 1st. For regalating the atrain of the cord for rolling the blind np or down; the eord is passed round a groore made at one end of the roller, and it also passes through a ring below, the latter being drawn by anothor cord fixed at one end to the wirdow frame and provided at the other end with a friction bar or ring, whereby it may bo retained at any given point. 2d. To secure the roller in the window frame, ope end is provided with a fixed spindle, as ususl, and the othor end with a morable spindle, which is placed in a recess made in the roller, \&o that it may be pandedin or out as maybe required. 3d. The shade istifitachod to the roller by means of an elastic rod which is passed throngh a hem in one end of the blive, and fite singly the a longitadi-
nal groove made in the roller, in which it is held by otaples, and also by being tied or secared at the middle. Messrs. Sullivan \& Hyatt, 34 Beekman-street, this city, are the full assignees of the patent.
[To te continued.]
RICEENT AMERICAN INVENTIONS.
The following inventions are among the most useful improvements lately patented:-

## FIRE-ESCAPE.

Hugh Morohan, of Brooklyn, N. Y., is the patentee of an improved fire-escape, and his invention consists in arranging a sofa or other piece of furniture by means of suitable braces and sections, and by a chain or chainwork in its interior, in such a manner that the same can be fastened economically, and with little loss of time, to the sill of an ordinary window, so as to form the means to pass out of the window and down to the ground by the aid of the chain.

## OWER LOOMS.

The object of this invention is to prevent, as far as practicable, the loss of time which occurs in the operation of power looms for weaving hair cloth, when the attendant, whose duty it is to "serve" the hair to the sontrivance which places it in the shen, fail to serve it at the proper time, or in case of any failure of the operation of said eentrivance. Hair cloth is commonly weven with five sheds, which are opened in regular succession, and in operating a loom of the usual constrnotion, it is necessary, in case of any such failure as is above mentioned, when any one of the sheds is open, to wait till the same shed is again opened before attempting to serve, or the cloth will be made uneven; and thus the time occupied by the oponing and closing of the whole number of sheds is lost. A stop motion has been used for the purpose of stopping the harness motion of the loom instantly when the hair is, from ans cause, not placed in the shed that is opened to receive it ; but this is liable to some serious objections. This invention consists in the use of automatic mechanism which so controls the operation of the harness motion that the opening of the same shed is repeated during the following movement of the lay whenever a shed fails to have the hair placed within it, and such repitition is continued with each beat of the lay until the shed receives the hair, when the operation of the harness proceeds as if no interruption had taken piace Isaae Angell, of Pawtucket, R. I., is the inventor.

ibsubd from the united states patent office

[Reported ofterilliy for the soumanc Ancroans.]

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30,608.-Ellist Andrus, of Goneva, N. Y., for an Im provement in Apparatus for Drawing Water from Wells:
 and a hacket.
30,609-S. P. Atherten, of Fitchburg, Mass,, for an Improvement in Hoop Machines:
I lalmo Arth, The combination of a Rage enter with a entter ouf retts, a and $b$, for the eupport of the hoop upon $e$ oh tide of the

30,610.-A. J. Bartlett of Romalus, N. Y., for an Im-
provement in Excavators:
I claim the arrangement and com ina tion of the hollow coop of or jointed together, so as to allew the required adjutments of the aid the op, and operating together subctantrially In the manner and
30,611. - R. C. Cristol. of Chicago, Ill, for an Im-
provement in Slide Valves:
I edilm, froth In oombination wlth. salve carrectupon rolling



30,612.-B. F. Chappell, of Norwich, Conn., for an Improved Plumb-bob
I elaimi as an improved article of mannuacture, a plumh boh, ppo-
vided with train of wheels, aprlng and stop, and otherwie mado as abown and descri hed.
CThis invantion consiats in introdueing within a hollow plumb bob a fanged drum or reel around whlch the atring hy whleh the bob isauspended ia woinnd by a apring and train of wheelwork, and it consiots further in applylng a plach-screw to the top of the hob by Which the atring may be atopped when ontiraly or partally unwound from the drum; so that a boort or long otring may heused as occe. etion demands.]
30,613.-A. F. Cobb, of Chapel Hill, Mo., for an Improvement in Fire Alarms:

 forth.
30,614.-L: A. Colbert, of Baltimore, Md., for an Improvement in Warming Apparatus:
 a bothom paesage, C, a aide dampered pacase. E, and a top damper-
 lio tir
ehanir
forth.
30,61
30,615 .-L. P. Collins, of Sacramento, Cal., for an Improvement in Loop Catches for Sewing Machines:


 and the rotary hook until the proner time for titseleese the whole
bio the conatrueted, arranked, aud operating ai let forth and ex.
panined 39,616.-G. D. Colton, of Galesburk, Ill., for an Im. provement in Apparatus for Drawing Water from Wells:

 20,617-J W Crawf

Improvement in Graf

I Ilajm, irst, Thi knifc, a, with ith weight, Gi, and the devied do-
ecribed for operatiog it in combination with he iloted bed plate.

 ble inclined bed
[Thls Invention cenalits in arranging on the tep of a euitable etandard a woiglited cutter whleb works hetween two perpendicular guide ways operated hya foot hearer for apliting the atook ; and it a so conisits laarranging by he nide of this stock ephite a reeiprocatligs hnife and inollned adjutahle bed pleces for prepariag the wedge on the Belon.]
30,618.- Perry Davis, of Providence, R. I., for an Im-
proved Boat, Convertible into a Land Carriage: I claim the combinationof the olampe, CD, and rabber aprivgr, at. fot the pprpoeed eat forth and deseribed.

 as and for the pirtposes shown and deceribed.
[This invention is an improvement in boate to be uned on ine d andon the water, for pleasare purposee. The inventlon conaibitio in mounting the boat at ita bow on an india-rabber ppring of peculiar construction when it is ased on anand, anid epring being attached to a square axie or to a square enlargement of an arie, and connected to the boworthe boat in such a manner that the front wheolo, or the arles of these wheoif, will have a universal play, and so that the how of the boot will not be mubje ted to any jar and concuesion in pesar ing over rough roade. It firther connititn in arranging in the itern of
 board or false keel arminged between the paddio wheela, whiod
mheela have independent shafte, and are tarned by pulleyt berut Wheele have
and cranke.]
30,619.-S. S. Day, of New York City, for an Improvement in Fly-traps:
I diaim the ure or emplopment of the zhelf, F, Fin combination ohill be eombined nyd operated in the preciee manner ppecifted ar 30,620. -John Dickinson, of Painesville, Ohio, for an

Improved Latt-holder. Ante-dated Aug. 14; 1860: I claid the mode of aeouring immorahle, or neary ea the tarn-
 (table, as described and tor the parpoee sinted. provement in Vapor Lamps:
I clalm minglling the rapor formed with atmoegherie air above the

80,622.-D. F. Dunham, of Brook, Ind., for an Improvement in Spolling Boxes:
 frth.
Thla invention consiats in enclesing within a onitahlo box having a mall opening in one elde of its top two or more wheele or eylis. ders, osch of whleh has an independent rotary morement to the other, and in covering the peripheries of said wheels with the vowelo asecononanta, making a periect word, and arraaging oa the nex Wheel ie aiphabet of any language, wo that by rotining one of the Theole the lellort may bo grooped ogelt words, or ilmple and compo
30,623.-E. G. Dyer, of Hamilkon, Ohio, for an Im-
proved Feec Motion for Head Blocks of Sawmills:


30,634.-E. Ehlin, of Boston, Mass., for an Improvement in Fire Alarms:
 lever and wis wht I F, connected with an alarm, to operate sulbtansitacend In cornection with the futse, K, applied as shown and de
 to the lever, E , to operate are and for the puryose set forth.
CThis invention eonsists in the employment or use of a fuse con taking fire, will conduct the flame to a thrend or fuse the building taking fire, will conduct the flame to a thrend or fuse which holds a weight connected with the alarm mechanism, and iguiting the weight sustaining the thread or fuse will cause the weight to be

## sounded.]

30,62J.-J. H. Elivard, of Ottawa, Ill., for an Improvement in Mole Plows
I claim the sectional mole, ed $c$, the coultere, a and $b$, the coulter
a being novable with their respective loope and joints, in combinaa being novable with their reapective loops and joints, in combina-
tion inth the side draught of the plow froin the link or loop at f on
the side of the beam, A, through oue of the slotg in the transverse piece, for tho purpnoe of giving any desired curvilinear direction to the ditch or drain, when the several parts are arranged a
together as represented, and substantially as described.
30,626. - Robert Gamble, Jr., of Tallahassce, Fla., for
an Inprovement in Channel Excavators:
Justable plate or platform, C , and ide pieces, F . F , substantialiy as Justable plate or platform, C ,
and for the purpose set forth.
[This Invention is designed to deepen or excavate the channels of againat the bottom of the same.]
30,627.-J. B. Gibbs, of Boston, Mass., for an Improved Skate Shoc and Foot Check:

## I ciaim the grooved ekate sho saribed for the parpose specified.

30,628. -L. W. Harwood, of Troy, N. Y., for an Improvement in Stove Grates:
I claim, first, So forming and arranging an arm, $D$, fast on the grate, A and in line, or nearly in line, with the rocking support, B, $B$,
of the grate, bubstantially as described, that the grate may be both
vibrated horizontull on of the grate, subsiantialiy as described, that the eqrate may be bot
vibrated horizontally on its central pirot, ${ }^{\text {and }}$ and tilted into averti
cal position upon its rocking support. B, by the use of the arm, cal position upon its rocking support. $B$, by the use of the arm, $D$
alone, substantially as represented.
Second. alsoclaim che combination and arrangement of a per
 furnace, the arm, ${ }^{\text {a }}$, and grate, $A$, pivot, $\mathbf{C}$,
stantially as and for the purpose deecribed.
30,629.-J. M. Heard, of Prairie Station, Miss., for an Improvement in Ratilroad Joints:
I claim the arragenent of the tongue, F, to pass into a cavits in
the bar, D, on to be upported therabs; , is shown nnd described, Fhen gaid tougue is made in one piece with the bar, E, and when
the rails are notohed mad sloted nud all tho parts constructed and combined all as set forth and represented.
tions of railroad rails in a more sime connect together the ends of sec heretofore been done, to provide for the expanaion and contraction of the rail in consequence of the change of temperature, to provide ing of the rails at the joints occasioned by the concussion of the passing and repassing of trains over the rails, and to provide against the lateral thrust of the rails at the joints.]
80,630.-De Witt C. Hitchcock, E. B. Larchar and E.
M. Larchar, of Neiv York City, for an Improvement in Relief Printing Plates, \&e.:
We claim the method of producing printing platea, blocks, \&c., in
relief, by amploying liquid silex, or other material that has a liar dening effict upon chalk, clay, or orther nnalagous gubstance, or that
has anaffinty for, or the capacity to afllite with the silex as
marking materiah, medium or ink, to delineate lincs, figures, or an! derired device, upon the surface of said chalk, clar, or other mate
rial ansceptible of thus becoming hardened or petrified, sod then removing the intervening and unacted on eor material next the gurand finally solidifying, in agreater degree, hardening and petriffing
ehe whole body, subdatantially in the manner and for the purpose set
forth.

30,631.-D.avid Johnston, of Eddyville, Iowa, for an Improvement in Water Elevators and Carricrs: I claim the nrrancemsent of the track, carringe, hollow pin, bucket,
knot, rope, puiley, $\lambda$, nud latches, $B$ and $D$, when the whole is conatructed, arranged and operated in the manner and for the purpose

30,632.-J. P. Kirk, of Anstin, Texas, for an Improved Chain Link:
I ctaim the two pivoted hooke, A A', constructed and put together
in such a manner that the ends of one hook will abut against or lap on the ends of the other hook, substantially as and for the purposes lThis
[Thîs invention consiats in pivoting together, in a suitable manends on the shank portions, or in such a manner that, when a ton sion is brought upon the hooks, drawing from their center or axis o motion, their shank ends will abut against the hooked ends of each other, or lap and abut, and form a figare 8 connecting link, whose axis is to one side of a central line drawn diametrically through the two hooks.]
30,633.-E. B. Larchar, of Nerv York City, for an Improvement in Fire-escapes:
I claim, firat, Elevating n platform, or other equivalent device, by
meana of a telescope columu, substantially as and for the purposes get forth. I also claim the piston joint composed of the fast and loose 30,634.-Rufus Leavitt, of Melrose, Mass., for an Im-
provement in Sewing Machines: provement in Sewing Machines:
I claim, in a sewing mechanism, the arrangement and combination
of the sp oo, h, with the lever, ${ }^{\text {cor }}$, orther moving part of the me manism. who
che movement is unfform with and relative to that of the needle and with the screw, $K$. or other equivalent means of ad.
justment, and spring, n , all operating together in relation to the modement of the neede, substantially as and for the purpose speci
fid
Also, the employment of the " take-un, for the specified purpose, Also, the employment of the "take-un, for the specified purpose,
In combination with a spring and cam, both arrangpel and operating
together to give the take-up the movement de to he form of the
 30,635.-Meier Rosenberg and Henri Scheuerle, of New York City, for an Inproved SpringBed Bottom:


30,636. - Nathan Maxson, of Wilmington, Ohio, for an Improvement in Harvesters:
I clim the arrangement of the automatic internittently rotating shown, so that the cut grain will fall over the fingers upon the said olary platform and be discharged, as fet fertlh.
[This invention relates to a novel arrangement of parte, wherebs ves ters in use.]
30,637.-T. J. Mayall, of Roxbury, Mass., for an Im provement in Machinery for Making India-rubbe Hose:
I claim the use of a series of rollers having carved peripheries Which bear upon and work the coating or covering of india-rubber or
guttan-percha lntothe surfaceof the wovent tube placed upon a suit
uble mandrel, substantially as described.
30,638. - Wro. McAllister, of Gerry, N. Y., for an Improved Manufacture of Cheese
I claim, first, The use of sour whes in combination with rennot, as
and for the purpose set forth; and in connection therewith, I claim and for the purpose set forth; and in eonnection therewith, I claim,
Second, The nge of brine in the manner and at the period in the
30,639.-Hugh Morohan, of Brooklyn, N. Y., for an Improvement in Fire-escapes:

30,640.-L. W. Nicholls, of North Brookfield, N. Y. for an Improrement in Odometers:
I cladm the arrangement of the tubular sleeve, $J$ in combin ation g, giving motion to the registering wheels, substantially as and for
隹
[This invention consists in the arrangement of a square tubular coct or sleeve, in combination with the vertical arbor which rerve communicate motion to the registering wheols, in much a manne carringe, and that sudden jerks or other violent motions have no in urious influence on the correct oction of the register.]
30,641.-R. S. Payne, of Chicago, Ill., tor an Improvement in Sewing Machines:
I claim a recinrocating diak and two loose feel rings, arrnnged uhstantially as described, in combinntion operath $\begin{aligned} & \text { nith needle working }\end{aligned}$ forth.
30,642.-C. W. Pcarson, of Charlcstown, Mass., for an Improvement in Sivifts:
 Second, I claim, in combination with tho above, the hubs $\mathbf{B}$ and
Sting ion, substantially as described.
30,643.-Julius Pollock, of Morrisania, N. Y., for an
Improvement in Ventilating Sweat Icathers for Hats:
I elaim making single sweat lenthers for hats, with embossed pro niberances at any desi ed distance apart filled in on the rlde next the
hat with some lizhit and elatic substance, substantially as deAnd also claing mak ing such single embosged sweat heathers with
rimped or emborsed coruqation ant the sides, when the anme are

30,644. -Servetus Longley, of Cincinnati, Ohio, for a Improvement in Street-sweeping Machines:
I clnim the eccentric rigg. H, arranged and combined with the brush
forth.
[This inventlon is applied to brooms or scrapers which extend diaconally across the machine, and which s weep or scrape, as the case raws. It consists in hanging the one side of the machine into wind it may be raised or depressed, so that the brooms or scrapers may be raised entirely free from the ground if desirable; and it consist in attaching, by a crank arm, each broom or scraper head to an accentric ring, which will keep the broom or scraper always in a rer pendicular position with the surface of the street, at the enme time all the brooms are allowed to vield and to aecommodate themselve to the unevennèes of the surface of the street.]
30,645.-G. S. Roundebush, of Natchez, Miss., for an
Improvement in Cotton and Corn Stalk Cutters: I claim the bi-conical roller, $D$, provided with the knivee, $E$, in
connection with the knife cylinder, $H$, and with or wwithot the bare or rerapers, $G$, aill beine
for the purposes set forth.
[This invention is designed for cntting into pieces standing cotton nd corn stalks, so that the same may be plowed ander the surface the ground, and the latter rendered suitable for cultivation at a ory moderate expense, the hitherto tedious hand labor being voided and the work done much more thoroughly.]
30,646.-Gcorge Rugg, of Potsdam, N. Y., for an Improvement in Turning Machines:
1 claim a new mode of constructing, arranging and operating devices, for the purpose as epecified.
I claim, first, The tube \&tock, $F$, ast nttached and operated by
means of the arm, $d$, the revolving pattern, $L$, and clutcli, $J$ asconnected and operated in the matiner and for the purpoese apecified.
Second, I claim the guard, $c$, as adjurted, for the purpose \&peci-
fied.
,647.-Christian Sharps, of Philadelphia, Pa., for an Improvement in Forming Cartridge Cases:
I claim forming cases for metallic cartridges by placing a hollow
cyinder in fhambers of the deaired form, and expanding the said cylindera within the chumbers by means of plangerat through the
medium of water or other suitable fluid, athbtintially as set forth.
30,648.-D. E. Somes, of Biddeford, Maine, for an
Improved Heel Shave:
atructed subatantiallyin th


30,649.-Gustav Wedekind, of Philadelphia, Pa., for
an Improvement in the Preparation of Transparen Pictures:

 sulution of silit.
and described.

30,650.-'I'. J. Weeks, of Neiv London, Conn., for an Improved Harness Saddle:
I claim the disk, E, and bare, D D A B, eonstructed, combinod [The object of this invention is to obbain a barness eaddle tha, will can form to the movements of the animal, without galling or is juring the same by rubbing and friction, even when made to sustain heavy load.]
30,651.-S. W. Tyler, of Greenwich, N. Y., for an Improvement in Harvesters:
I claim, first, The combination of the nutomatically adjustable head piece, G, and twin plate, M. or their equivalent, with the cutSecond, I claim the iron haperating substautially as described.
Sor $\pi$ common eupport for the journals of the pinion and pitman eharis of n harveeting maehine,
when ured as a atrong iron brac of a light wooden frame, in com bination with such frame, eubstantially as described.
Third, I claim the hand ulever, Luhen constracted and used as
specified, in combination with the cutting apparatus, for the purpose it forth and nibstantially ns described. Fonth, I claim the nidjusting rod, h er its equivalent, by the use
of which the driver. while on hio seat, way bring the cutting appa-
ratus to a poition ni riklit nngles to the head piece, where it may bo
held ratus to a moitinn nt riklit nngles to the head piect, where it mappa-
held in combination with the lead piece n nd cutting apparatus, for
the purposes set forth and substantially as described.

30,652. -Isaac Angell, of Pavtucket, R. I., assignor to the Pawtucket Hair Cloth Company, for an Im provement in Looms for Weaving Hair Cloth:
I clatm the re-opening of the shed after the failure of the hook to cake a hair, without stopping or disconnecting the heddles from their
ource of motlon, in the manner, substantially an shown and de

30,653..-H. N. Black (assignor to himself, H. Korn Jr., and E. S. Bodine), of Philadelphia, Pa., for
an Improvement in Machines for Hulling and Cleaning Rice:
I clai m, first, The haller made up of plates of metnl or other suit ble ninterinl, the plates being detachable and having an elastic be nk surface, as set forth.
Second. I claim the combination of a rubber constructed a $d$ ope ated us described, with the cynd
orth.
Thie Third, I cl nim the brushes or polishers construeted and operated
as described, in combination with a cylinder of nolid surface for pol-

30,654.-Jacob Kinzer (assignor to C. Adams), of Pittsburg, Pa., for an Improvement in Door Locks:
I claim combining the roller, F, with the latch bolt, B, for the pur-
noge of legsenime the friction when orcing the boit back into the
30,655. - Frederick Landon (assignor to B. E. Huntley, J. M. Bowman, Charles Silliman and Lafayette Silliman), of Brockport, N. Y., for an Improve ment in Harvesters:
I clnim, first, The traction yoke or lever, $D$, the rods, $L$, the pin-
inn ehaft nnd the sudgeon, I, as fixed fulera of the traction Jever, in raction dranelit of the drive wheel while making deecents, and ee-

 frive wheel, in combilation with the franie and finger bar, to secure drive wheel, in combination with the frane and finger bar, to secure
na automatic ndjustment of the finger bar the the peripher of the
drive wheel, for the purpose specified, eubatantially na deecribed. rive wheel, for the purpose specified, subatantially ns deecribed.
Third, The combination of the traction lever, D, the rod, and the frank, A, to secure an adjustment of the finger beam with re-
spect to the periphery of the driving wheel when the machine is
used for harvesting grain, substantially as described.
30,656.-John McCarty (assignor to Leysert, McManus \& Co.), of Philadelphia, Pa., for an Improved Horse Shoe Machine:
I claim, first, The combination of the stripper, Pr, weighted leve ${ }^{r}$,
nnd caninge, E, the latter havine a plane parallel with that ${ }^{n}$ nind carriage, E, the latter having a plane parallel with that $I^{\text {n }}$
wich it moven for receiving the weifhted end of the lever, and th a:id plane terminating in an inclination, h, so that the eseid stripper
anay bave the desired dwell between its upard and downward movements as and for the purpose epecified.
Sccond, The combination of the stripper, $P$, lever, L. nnd rods, $Q$ and $Q^{\prime}$, or their cquivalenth, arranged and operating substantially as
set rorth, for the purpose ect forth.
Third, The combination of the etripner, $P$, the former, $K$, and the
 anme formans, but somewhint lees than the end of the fommer, $K$, and
arranged to coincldc with the latter during the operation of the
etripper, as eet forth. ripper, as ect fort
30,657.-H. F. Phillips (assignor to Downs \& Co.), of Sencca Falls, N. Y., for an Improvement in Apparatuses for Drawing Water from Wells:

30,658.-D. E. Somes (assínor to J. S. Anderson), of Biddeford, Maine, for an Improvement in Curing Provisions:
I claim salting and culing food and hides, in latitudes too warm
for the ordinary processes to be carried on, by means of operating in for the or dinary proceases to be carried on, by means of opelating in
excnrations nade in the earth, to a depth sufficient to nttain the
minimum temperature, and further cooled by artficlal refrigeration mis set forth.
30,659.-Owen Sturdevant (assignor to himself and J. S. Gregory), of Maquon, Ill., for an Improvement in Mole Plows:
I claim forming a circular tole or suitable ppace under the end of
colter, $\mathrm{E}_{\text {, in combination with }}$ a groove in the top surface of the

[This invention is an improverment in that class of plows which make a smath hollow drain, from 12 to 18 inches below the surface by forcing a pesuliarly pointed tooth horizontally through the ground. It consiste in a novel method of elosing up the opening in crown of the channel which is made by the colter; thercby prevent ing too mich surface water from weing draised of by the channels, and also preventing the channel from clogging up. 1
30,660.-George Williamison (assignor to L. S. Goble and H. E. Richarde), of Newark, N. J., for an Im proved Clamp fre Holding Cylinders to be Polished:


## RE-Issofrs

F. H. Bartholomew, of New York City, for an Improved Method of Governing the Action of Valve Cocks. $P_{12}$ ented June 20, 1954:
I clinim, first The combina tion of these three elements or devicea,








 perating subatantially as recited,
F. H. Bartholomew, of New York City, for an Im-
proved Method of Governing the Action of Valve Cocks. Pitented June 20, 1854
Icliainn as iny oivn invention the forllowing devices in combinn-
tion, viz: Firet, A pau provided with a proper rockshant anin, or its
equivilent: valve or cock to opeu and cloge a paseage way leeding





 al lof them are
as described.
R. M. Berry, of New York City, for an Improvement in Sewing Machines. Patented Dec. 7, 1858:
I claim forming the moving feeding surface of the material corlity
or its equivalent for the purpose atidn the manner substantially or it
8 d described.
Bernard Hufnagel, of New York City, for an Improvement
1858:
 rubber pacciag between, and fastened together between wooden or
Ottler framework, in tbe manner and for the purpoee substantially other framework, in the manner and
as peiffed.
Second claim the construction of the outer or wooden box or
and


William Scarlett, of Aurora, Ill., for an Improvement in Skates. Patented May 29, 1860 :
I claim, frist A Akate composed of two sheet metal parts, A a A A.
cut and bent intothe proper form and applied together ne hown

S. W. Tyler, of Greenwich, N. Y., for an Improve ment in Harvesters. Patented Jan. 26, 1858:
 outting ap paratag to the carriages of harves ting machin 2 ee, when
conbined with two or moore man driving or beamng wheels aud



C. E. Smith and G. I. Hardeman, administrators of J. L. Hardeman (assignor to Wm. N. Whiteley, Jr.) of Springfield, Ohio, for an Improv ement in Hemp Catters. Patented August 21, 1855:
I claim, frist. In combination with a cutting appratus extonding







Charles Eldy and Jicoob Shavor, of Troy, N. Y., assignees through mense assignments of Henry Stanley, of Poultney, Vt., for an Improvement in Coal screnes. Patented Jan. 4, 1845 ; extended for April 10, 1860; and again reissued May 8, 1860:









We ataoclatm the arrangement and combination of the conical
ing, and and the eolid part thereof with the rear intermediate cham-



We also claim the arrang enient and combination of chamber, $\mathbf{H}$ having therein the damper,, and thereto attaclied the exit pipe. F,
Fith the rear internexiate chumber, $\mathrm{E}^{\circ}$, substantially as and for the Plitruee deecribed and bet forth.
Whalso claim the anjan
$x$ whilh claim the arnangement and combination of the said shell.

 We ales claim the arrangement and conbination of the corrice,
O, with the flues of columna, $\mathbb{R}^{\prime}$, and with the crinder, $A^{\prime}$, substanHilly as deacribed and eet forth.

## designs.

N. S. Vedder (assignor to Hicks, Wolfe \& Co.), of Troy, N. Y., for a Design for Parlor Cooking Stoves.
T. A. Carew, of Cambridge, Mass., for a Design of a Mcdallion Likeness of Theodore Parker
J. D. Marshbank (assienor to himself and W. McConkey), of Lancaster, Pa , for a Design for Stove Doors.
John Polhamus, of New York City, for a Design for the Handles of Spoons, Forks, \&c.
H. G. Reed, of Taunton, Mass., for a Design for Tea Scrvice.
J. Steffe and S. II. Sailor (assignor to Cox. Whitman \& Cox), of Philadelphia, Pa., for a Design tor a Stove.
J. B. Sargent and Purmot Bradford (assignor to J. B. Sargent aforesaid), of New Britain, Conn., for a Design for a Draver Pull.
N. S. Vedder (assignor to Hicks, Wolfe \& Co.), of Troy, N. Y., for a Design for Cook's Stove Plates.

W. S., of Ill.-Of thyo sheet iron pans for boiling sugar juice, ench baving 15 square feet of bottom sulface and a depth of but 4 inches, but the one having straight and the other flaring sides, more juice will be evaporated in the same space of time from that with the flaring sides than from the other, if the sides are explosed to the heat of the fire. But if the bottoms of the tiro evaporate somewhat quicker. Your engine being 13 inches bore, etroke 3 feet and making 50 revolutions per minute, vith 80 the. on the square inch, will be 36.19 horse power. As your piston runs at the rute of 150 teet per minute, the pressure in the cylinder wilt be as nucla as 10 ibs. less thisn in the boiler, and perhaps double this amount. You can only determine this with a gage. The boiler pres sure is taken to he all above the ntmospliere.
D. P. N., of Texas.-We have never seen oysters put up in a natural state that were capable of being kept freeh in wartn weather for any considerable length of time. In putting filled and soldered tight, then they are placed in boiling water with the ends up, when the expanded air Inside bulges out the tin. A can is now lifted out, and a small hole is pierced in the end througla which the expanded air escapes from the ingide, and the hole is then immediately closed with a piece of solder.

W. I., of Litchfield.-If you desire an answer to your letter sou must inform us in what state you rebide. You canget | a cop |
| :--- |
| ente |

P. C., of England.-Machines for shearing sheep have been patented in tbis country, and we have illustrated some o them. in the backnnmbers of this journal. We have not heard of
the successful introduction of any of theese machines into thengh the T. B., of C. W.-We are much obliged to you for your kindness in offerlng to furnisb us with a drawing of the Marquis of Worcester's original feam enkine, but we nave what is said to be a representation of it in stewart's rare wor'mon the ateam engine. We eateem your obliging offer none the less on this account. W ehnll re-produce this engraving for publication a soon as we have room for it.
C. C. P., of Ohio.-The liquid. which you have sent us, and which gou state was obtained from the ground uear Athens, is cosi oll, and similarto that found in the oll wells of Pennsytvania It requires to be puifled before it can be employed for burning in lampa.
J. H., of Pa.-Wc do not think there is any need of your publishing anything about your steam plow at present. You cannot help the delay, nud whenever you are ready to negoclat with partiee you can readiay make known the factby advertise ment through this paper. We do not think we can posibly attend the trial you apeak of as we obliged costand at our post of dut bere.
W. J. H., of Ohio.-Clocks for telling the days of the been known for and ater panth, are common, nnd hav granted for improvements in such cjocks, wbich are termed calen der clocks. We have also seen a contrivance attached to a clock for telling the time in different parts of the world. If yon will send us drawinge of your invention, we shall be bappy to give you an opinion of its patentablity.
J. H. P., of Texas.-If yon have got air bubbles into your baromeler, sou will have to pour out the metcury, invert the tube, and fill it again.
W. S. I., of Oregon.-We have no data upon which we can estimate the time required to make a carriage wheel by macbinery. We shall be happy to receive your model and act as sour agent in procuring a patent for sourinvention.
C. R., of La.-Your suggestion in regard to an improved paper for the use of magnetic telegraphi is not new. It was carried out many years ago in Bain's chemtenl teiegraph. He sage of electricity convesed to it by the point.
E. O., of Va.-We have received the model and de. cription of the improved steam governor, and we are of the opinion that a patent cannot be obtained for it. The principle is oo mach ike Reynold's hat a valla clamm could not be obtained. You had better have us make a preliming examination of the water wbeel at the Patent Office
N. R: R., of III.-We think our readers have had enough of the crank motion.
A. F. O., of N. Y.-We doubt whether you can produce power by such agency as ypu speak of as cheaply as it can be produced by coal and water, and doubt whet hereucb anengline can be kept under perfect control. The only satisfactory solution to your question will be a tinin.
H. K., of N. Y.-The standard price of 22 carat gold
 price of gold in that country, because $£ 317 \mathrm{~g}$. $10 \%$ d. is coined from every ounce of standard gold.
J. W. H., of Iowa. - You cannot weld iridium and steel together. You will find a description of the mode of electrotsping woodcuts and formis of type on page 257, Vol. I. (new series) fthe Scientific A
E. F., of Maine.-One horse will not be able to drive a 22.-inch planing machine. To prevent black ink from molding, put in a little essence of cloves. To make red sealing war melt 40 oz. of ehelinc in a bright copper pan, the:
pentine vnd add 3 oz. of vernillion:-
R. C. B., of Ill.-We are perfectly open to be convinced that friction is not independent of velocity when any well authentleated facts are shown to be inconsistent with the rectived doc. trine.!

## MONEY RECEIVED

At the Scientific Americau Office on account of Patent Office business, for the week ending Saturdar, Nor. 17, 1860 :H. T. P., of Mas8., $\$ 25$; H. T. S, of Mich., $\$ 30$; H. S., of N. Y. \$30; J. E. A., of III., \$111; J. W. S., of IIl., $\$ 25$; O. S., of Ala., $\$ 25$;



 S., of N. Y., $\$ 73$; W. S., of Mnss., $\$ 25$; D. S. ., of N. Y., $\$ 30$; W:
U. T., of Mase., $\$ 30$; P. L., of N. Y., $\$ 30$; C. S., of Ohio, $\$ 25 ; \mathrm{L}$.

 I. E. F., of Fla., $\$ 3 \overline{3}$; E. E. T., of N. Y., $\$ 25$; A. F. F., of V.. $\$ 30$; J. P. W., of K Ky., $\$ 35$; W. Y., of Ind., $\$ 80$; A.I., of Iowa, $\$ 30$; $\mathbf{H}$,
 J, S., of Pa., $\$ 10$; E. H., of Cal. , $\$ \$ 5$; S. \& A., of Iowa, $\$ 30 ;$ T. B.
 of Ohio, $\$ 30$; R. F. B., of N. Y., $\$ 20$; S. \& P., of N. Y., $\$ 25$.

Specifications, drawings and models belonging to parties with the following initials have been forwarded to the Patent Office during the week ending Saturdny, Nov. 17, 1860:-
J.E.F., of Fha., J. L.F., of 10 wa ; S. da., of Gn.; J.W.S., of I., W.S., or Mas, A. .. K., of N. Y.; J. C. H., of N.Y.; J. G., of $\mathrm{N}, \mathrm{Y}, \mathrm{w}$, Y ., Mass.; T. S. D., of N., J.; G. W. H., of Pa; J. P. W., ot KY.; V. \& Mass.; T. S. D:, of N. J.; G. W. H., of Pa, J. P. Wo, or K.;
K., of N. J.; C. S., of Ohio ; E. B., of Ind; E. H., of Cal.; P.J. An of N. J.; H. B. W., of Conn.; A. M., of N. Y. (three cabea).

NEW BOOKS AND PERIODICALS RECEIVED.

## iie Atlantic Montimiy for November. Ticknor \&

 The bi hish hiteral'sblemes Descriptive Geometry. General pro


 Polstectnic In
ptreet, tbis clts

The Abierican Stock Journal. Published monthly nt No. 25 Park.row, this city. D. C. Lindsley, editor and 1 ro This io one of the ablest agricultural papers in the country we
Edinburgh and Westminbter Reviews. Published by Li: Scott \& CO; Gold-8treet.


 The Age of Horsfrs. By Louis Bramdr. Veterinary





