
issued from the united states patent office for the meer endine may 6, 1862. Reported Oftrially for the Scientific American
*** Pamphlets giving full particulars of the mode of applying for
patents, under the new law which went into force March 2,1861, speci-


85,132.- John Absterdam, of New York City, for Improved Composition for forming Journal Boxes, Bear-

 fral snlst ances, io form a material or composition for bearings of
jaurnal buxns or or hazts and anles, substantially as described.
35,133.-S. W. Baker, of Providence, R. I., for Printers fapping

 \%intta percha, sulbstantially ns deseriberil.
 35,13 . - Cornelius Bergen, of Covert, N. Y., for Improvement in Grain Separators

 35,135.-0. M. Buttles, of Milwaukie, Wis., for Improve ment in Stoves
 Mon valve, a, my turn the espaping products of combustion into
35,136.-JJ. G. Cain, of Smith's Mills, Pa., for Improved Combination of Table and Sink

in the peculiar manner shown and described.
(The olbject of this invention is to combine with a dining table, of any size and shape a sink, in which dishes, \&c.., may he washed after they have been used on the table, thereby obviating the neecessity of
moving the dishes about from place to place for the purpose $n$ washing them, and also affording convenience and cleanliness in the opera tion.]
35,137.-J. H. Calkin, of Troy, Pa., for Improvement in

 constricteted and
pose $s$ specitied.
[The object of this invention is to obtain an oiling or lubricating de vice which will be capable of being so ald insted that it can be applied to hubs of different sizes or diameters, and operate eq ually as well as if made for hubs of a specflic sire, and admit of the ayle bengy lubricated with the huls attached to it, and be also capable of being per-
fectly protected from dust, so that none can come in contict with the oil and be conveyed by it to the axle.]
35,138.-Mary P. Carpenter, of Buffalo, N. Y., for Improved Ironing and llating Machine:


 35,1.39.- Gardner Chilson, of Boston, Mass., for Improvement in Sad-Iron Heaters


 Sel forth 1 laiso claim a sad-iron heater, composed of the hollow, pyramilal

scribed, and tor the purposes ns set forth.
35,140 . Edward Court, of Coeymans, N. Y., for Improve.
ment in Brake for Wheel Velicles: ment in Brake for Wheel Vellicles:

 the d.mbletree, N, attiched ind plated undery
[This invention relates to an improved brake for wheel vehicles, of that class which are commonly termed sclf-acting. The object of the invention is to obtain a brake of the class specified, which will operate with certainty, and be capable of being applied to all wheel vehi-
cles, whether constructed with a view to its application or not be less liable to get constructed with a view to its application or not, be less being so attached to the vehicle as not in the least to interfere with the operation of the running gear of the same.
35,141--E. J. Cridge, of Troy, N. Y., for Improvement in Cooking Stoves
 Ilikewise claim the arrangement of the deflecting plates, d d, in the
upright portion of the contimous air space, I $J$, arranged with the
 nication with the oper air, the oven and the fire chamber above the
fuet, by the apertures or ar passages, $r \bullet$ nand $q$, respectively, as and
fior the purposes shown and specified. $35,142 .-W$. H. Doane, of Chicago, Ill., for Improvement in Stave Machines:
I claim, first, The combination of the india-rubber strip, F, plates, i
and j, , and screvs, k and 1, for setting the same, both vertically and
horizontally, when the saidparts are so arranged in connection with




[13y this invention the knife is made to cut against an elastic cushion which is adjustable both vertically and horizontally, so that its suriace is always kept level with that of the table, and in correct position t receive the edge of the knife, and at the same time a rigid bearing i frorded to the belt on both sides of the cushion. The roller by whic the stave is kept from splitting of the block while being cut is made
adjustable so as to suit staves of any thickness.] adjustable so as to suit staves of any thickness.]
35,143 .-J. N. Dudley, of Mitchell, Iowa, for Improvement in Portable Calenders:
the column of tignires, B, ar the several removable rings, b e de, with
for the pmrposes set forth.
[The $\bullet$ bject of this inve
der, which may be readily her, which may be readily applied to a pencil-case-match box, to the highly ornamental and convenient for finding the days of the mada
35,144.-O. P. Drake, of Boston, Mass., for Improved $A$ p
paratus for Carbureting Air:
an air-fircing apparathis a nd an airometer, the whone being construct

 Ia to clitim the air-inlet lox, Q, as made and applied to the case, $A$
and dits hatt, nud as provide with a pipe, $R$, to operate as specified. I also claim the combination of the anxiliary air pipe, si, 3 , with the
eronteter and the vaporizing ind aerating apparatus, sutstantialy a described.
In also claim the combination of the annular air vessel, gg, with the nerometer, when combuned with a vaporizerand an aerating appara
as, as specfied.

## ,145.-James Eaton, of Boston, Mass., for Improvement

 in Spindles for Spinning:I claim, as an improvement in spindles, in so forming the point that
he thread will draw from the axes or center: of the spindle, substan-
ially as set lorth. he thread will d
35,146.-Jacob Edson, of Boston, Mass., for Improvement in Gas Regulators :
I cialm, irst, The combination of the floating disk or diaphragm, d
 Second, Constructing he cutafefin a hollow shape by means of
which it can be readily increased or lessenetl in weight, at pleasure, hich the parposes set forth.
Thiri, The adjustalle
scribed. In so constructuggthe die cut-off, and arranging it in the
Founth,
induction aperture of the apparatus that when pnlleat or forced np hrough the same it will scrape or cut of the coal tar, $\&$ c., deposited
or collected upon their stirfices. collected upon the
35,147.-E. T. Ford, of Stillwater, N. Y., for ${ }^{-2}$ Improved
Plow Beam:


35,148. -Thomas Fowlds, of Treverton, Pa., for Improve
$\underset{\text { I claim, first, The comblat }}{\text { ment in }}$
I claim, first, The comblantion of the narrow screw thread, $s h$, of
he cap nipple, E and the witie screw groves. P , of the screw pin, ith a cannon, substantially as and forthe putponses set forth.
Second, The combination of the sharp pont, , with hollow screw
in, D D, substantially as and for the purpose sel forth pin, D D' substantially as and for the purpose set forth.
Third, The combination of the shonlder, i, and passage, with a
hollow screw pin, $\mathbf{D} \mathbf{D}^{\prime}$, substantially as and for the puppose set fort h. 35,149.-L. F. and F. W. Letmate, of New York City, for Improved Composition for making Printers' Inking We claim the
Clycerine and castor or employment or any of the tive, properly combined with or the mannfacture of printers' in king rollers.
35,150.- Kasson Frazer, of Syracuse, N. Y., for Improve-
ment in Buckles, Hings, \&c.: I claim the method described of con
used in forming buckle frame and rings; that is, when the two ends
 35,151.-William Ful
5,151.-William Fulton, of Elizabeth City, N. J., for Improved Coal- il Lamp Cone :
I ciaim, in rst, The perforated spring pi
alent, for regulating the elaseici corce of thate, , is shown, that it may its be pruiv.
sented evenly to the thame, and as a rest, which aceonmodatesitselt to Rented evenly to the flame, and as a rest, which acconmodatesitself to
the bottom or the chimney.
Second, I ctaim the construction of cone. B, as shown, in combination with' the e erforated shell, $K$, as shown, and the gauze wire, $P$, as
shown, the whole being arranged substantilly as and for the purpose dhown, the
set forth.
35,152.- Peter Hogg, of Brooklyn, N. Y., for Improve ment in Hydrome ters
I clatim, first, A hydrometer, composed of a tube for containing wa-
ter or other ligud, fited wilh a flexible diaphragm, and operating sub. stantially as specified.
second, The employment, in combination, with the tobe, A, and dia-
phramm, B , of an inverted siphon pipe, E E', the whe ecinstituting a phragm, $B$, of an inverted siphon pine, $E$ E $\mathrm{E}^{\prime}$, the whoc constituting a
statuonary apparatus or testing the density of liquids, and operating
35,153.-B. B. Hotchkiss, of Sharon, Conn., for Improvement in Explosive Projectil es
I ulam, first, An explosive provectiie,
In ilaim, first, An explosive projectiie, in which the contents are
soliditied, smstantially in the manner and so as to secure the advan-
tives set furt thyes set forth.
sivecond, I also claim the employment in such projectile of an adhe.
s. stlos tan tially as described, so as to increase the adtuesive lining, C, stuls tantianly as described, so as to increase the adhe-
sinn of the solidified contents to the interior of the shell. 35,154. - T. W. Houchin, of Morrisania, N. Y., for Improvement in Night Lamps
First, I claim the use or employment'of a wick s
ed as shown in Fig. , C , for the purpose specified
 shown in Fig, , C, me cornbination with the stand, A, lamp, C, tajer,
E, and shade, Fh, when the same shall be combined and operated for
the purpose shown. the purpose shown.
Third, Combining a wick sustainer, I, constructed as shown in Fig.
4, with a circular float, $J$, of cork or other suitable material, for the purpose described.
35, 155.--Charles Howlett, of Hartfor d, Conn., for Improvement in Balances:
Iclain the combination of the bearing points, C C, weight, F, and
indicator, $\mathbf{B}$, arranged as a selfi-i noicating balance, substantially as de. $35,156 .-H$. W. Hunter, of New York City, for Improvement in Magnetic Compasses:
 and white star-point lines, $\mathrm{c}^{\prime} \mathrm{c}^{\prime \prime}$, which are black on the withe,
and the section, as described and for the purposes
35,157.--H. C. Hutchinson, of Cayuga, N. Y., for ImproveFirst, A central draught entering above the lamp, through the later
al air tubes, E E, leading to the inner chamber, G, closed at the bot
tom and surrounded by the wick at the top.
 whenthe lamp is suddenly raised. . openings or the air tubes, E E,
Third, A round or oval hollow wick formed around the central tube

convex torm across the nuer chamber.
35,158 .- J. H. Irwin, of Beardstown, Ill., for Improvement in Coal ©il Lamps: conpartments, by partition plates, b, or $b^{b}$, so arranged as to perevent
horizontal or lateral currents of air through the dranght iew
 or scolloped form, in combination with a cone or deflector. B, having
its apex or top arond its siot, $f$, made of corresponding form, is and
Is spex or top around its siot,, made or cormesponding form, as and
tor the purpose set forth.
Thich are dention relates forning coal oils and other similar hydrocarbons, which volatilize at a rather low temperature, and reruire an ex. cess of oxygen to support proder combustion for illuminating purses. Mr. Irwin's presentadaress is box 334, Chicazo, Ill.
5,159.-John Iseman, of Rosston, Pa., for Improvement I moiners' Squares
aclaim the combination of the square, $A$, and straight
anged and connected toget her as and for the purpose set
[This invention consists in inserting in a straight woolen stan traieht edge a joiner's or carpenter's square in such a manner that the length of rafters for a roof may, by a very simple adjustment of
 capable ot being used as a trying square, T-square or miter.] $35,160-$ A. H. Leplay and J. F. J. Cuisinier, of Paris

France, for Improvement in Revivifying Animal Char-
coal for Refining Sugar: I eloal first, The method described of revivify ing animal black or
diarcoaldy hot water or steam, incombination with milk of lime nsed in the filtering vessels, substantially in the manner and tor the pur-
moses set forth.
Second, The method described of clarifying saccharine liquors, juices
 and sirul's by means of phosphates, sulbtantialy is see forni
Tllirl, The maner of operatin, and efrcting by means of the dif
ferent processes describelt, the revivification of animal black or charcrent processes describet, the revivilication of anmal an and
coal of of the collection of the ammonia given of in the $35,161 .-C$ C. Lewis, of White Water, Wis., for Improved Soap:
Ing clam tha of the specified ingredients for the purpose of mak-
ing sap, substantially in the specified proportions and for the purpose ing soap, substantially in the specified proportions and for the parpose
set forth. 35,162.-W. A. Lighthall, of New York City, for Improve ment in Refrigerator's for Steam Rngines:
I claim the combination of the diaphragm plates, $F F^{\prime}$, with the ubes, , and division ulates, $B$, arranged and to be operated an and
or the purpose set forth. 35,163.-Henry Loewenberg, of Boston, Mass., for Improvement in Mode of Making Button Holes:
I claim the pew me hod, substantially as deseribed, of making either
buton or cyelet hotes snch invorving the employment of dies, heat pressureanil
as specitiect
,164.-S. M. Logan and P. E. Baker, of New Carlisle,
Dhio, for Improvement in Terra Cotta Roofing
I cham, first, The use of the caps, a a, for covering the ioints in the
manner set forth and descriled. Secornd. The caps, in crombination with the laps, b b, in the manner
and tor the purpose set forth and descrived. 35,165.-Gordon McKay, of Boston, Mass., for Improved
Process of Sewing the Soles of Bor claim cess of Sewing the Soles and Shoes
I claim the described process, in sewing the soles upon boots or
shos, of changing relatively the positions of the boot or shoe and the
horn, substantually as described.
35,166.-A. G. Wilkins, of Cooperstown, Pa., for Improved Washing Machine
I claim, first, The aramgement of the larger roller, B, smaller end
roller, C, central Dited roller, $\quad$, and inclined slatter cairier, F , with. in a wash tub, in the manner and for the purpose, snbstanttilly as
described, The arrangement of the platform, E, slatted inclined carrier
gecona,

 set forth. FImund Moher of New York City for Improve ment in Repeating Firearms : hub, $\mathrm{F}^{\prime} \mathrm{G}^{\prime}$, and recesses or wroves, s, of the chambered bar, C , sub Second, Combining with the gun, the ring, I, friction pall, $K$, with
slotted arm, and the parts attached thereto, 1 , giving a slight movesloted arm, and the parts attached thereto, for giving a slight move.
ment the gan on its pivot, at every revolution of the transverse
shaft, $F$, as fully set forth. 35, 168.-W. V. McKenzie, of Jersey City, N. J., for Improvement in Oil Presses :
Inciam, first, The employmen. of the, a, in combination with
the press boxes, $A^{\prime} B^{\prime} \mathbf{C}^{\prime}$, constructed and operating as and for the purpose shown, and described.
Scond, The arranement of the key, $H$, in combination with the
hinged donrs, $a^{\prime} b^{\prime} c^{\prime}$ at the bottom of the press boxes, $A^{\prime} B^{\prime} B^{\prime}$, con. Second, The arrangement of the key, H , in combination with the
hinged donrs, a $^{\prime}$ b $^{\prime}{ }^{\prime}$, at the bottom of the press boxes, $A^{\prime}$
structed and operating as and tor the purpose specified. 35,169.-Matthias Mead (assignor to Samuel Randall), of

Lowell, Mass., for Improvement in Drawing Canss for Cotton Rovings:
First, I claim a drawing can constructed substantially as and for the
purpose described. purpose described.
Second, It Iaim forming the bottom of a drawing can of one piece of
raw or green hide, substantially as and for the purpose described. $35,170-$ A. . . Peatt, of Greenfield, Mass., for Improveonnecting Thills to Axles
I claim the iron, A, provided with the hionk, B, in combination with
the eve, $\mathbf{y}$, and the bonts. C C, or their equivalents, sulstintially as and for the purpose set forth.
[The object of this invention is to obtain a shackle or thill coupling which wilbe simple in construction, form a strong and durable con. temporary connection to prevent the letachment of the thills from the axle, so as to avoid the application or use of the ordinary " safety straps" now employed to prevent the thills, in case of such a contingency, coming in contact with the heels of the horseand frightaving him.]
55,171.-R. P. Parrott, of Cold Spring, N. Y., for Improvement in Hooped ordnance. Ante-dated Now 6, 1861:
I claim a gnn made as shown and descrihed.
I claim the arrangement of the screw plug, c, constructed as shown
35,172.-Samuel Rainbird, of Norwich, England, for Im. provement in Grappling and Raising Sunken Vessels, Iclaim, , irst, The mode or modes of grappling sunken vessels and
other snbmerged bodies, by the peculiar arrangement of clains, as described. The mode or morles described of raising sunken ressels and other suhmerged bodies by balancing a portion only of the weetht by
ir ressels and then raising the snmen vessels, or other sulamerged
bodies, by means of windlisses or similar maclinery.

Third, The apparatus described, consisting of air cylinders or vessels
divided into compartments traversed by tubes with stoppers for securdivided into compartments traversed by tubes with stoppers fur secur.
ing the grappling hains and movableescape pipes or radial ubec for
the escal)e of the water, together with valves capable of being worked the escaple of the water, tosether with valves capable of being worked
by chansor ropes aud other appurtenculces, as described.
Fourth, The combinathon of air vensels and chains or ropes, with
 purpuse of grappling and raising sunken vessels
bodies, by stuch combined apparatus its described.
35,173.-C. E. Rankin, of New York City, for Album Case:
I claim, as If cham, as a new article of manumature, the described combination
of the dagnerreotye cases, $A$, with the photorraphic leaives, $D$,
and book cuver, $C$, of the dagnerreetype cases, A B , with the phatograpphic leatces, D ,
and bookcover, C , as and fir the purpose shown and specilled. ['Tlis invention is a goodimprovement on the ordinary photographic album, and it consists in combining two ordnary daguerreotype cases with a book cover and a series of split leaves made to receive pho-
tographic or other portraits, in such a manner that an album case is obtained in which daguerreotypes or ambrotypes, as well as photo-
graphe pictures, can be preserved.]
35,174 .-J. H. Redstone and $\Lambda$. E. Redstone, of Indianap-
$\bullet$ lis, Ind., for Imprøvement in Valves for Steam En-- lis, In

We claime : irst, The hollow valve, $A$, when constructed as set forth
 forth. 35, 175._L. L. B. Requa, of Jersey City, N. J., for Impreved
 satid tubes are provided respective ely with cones or dellectons, I I I, so
constricted as tuadmit of a space, e, between them, having a narrow passare, e' ${ }^{\prime}$, ot increase the rapidity of the draught and case a quick
current of tir to impinge against the sides of the thame, i , substintially as and tor the purpse set lorth.
Second, Providing the lower end of the wick tube, E, with a cap,




 |This invention relates to an improved lamp of that class designed for buruing coal oils without a chimney, and consists in constructing the burner of the lamp in such a manner that the flame wiil be sup-
plied wid a refnisiteamonat of oxygen to insure perfect combustion and it the same tune be capable of being adiapted or applied to any of the lamps in general use, without heating and waporizing the oil in the lamp to canse an explosion thereof, and witiout obstructing the rays of light or casting a sinade around the lamp.]
3., 176.-A. K. Rider, of Hydeville, Vt., for Improved
Cut $\circ$ Valve : I clann, irst, The cut-on valve, G, having its end or ends oblique to
the direction of the movement of the minin ralve and applied we the



 purpose descrinbed.
35,177 .
35,177.-E. Y. Reblbins, of Cincinnati, Ohi $\bullet$, for Imprevement in Ventilation









 35,178 .-H. E. Robbins, of Hartford, Conn., for Impreve-- ment in Tobacce Cases :

I clamp, as a new artucle of manufacure, a pocket tobacco box, con-
struted substantiany in the manne:' as and for the punpose as de-
scribed. stribed.
35,179.-Watson Sanford, of Brouklyn, N. Y., for Imprevement in Dampers:
 substantiailv in the napinmer te secribed.
35,180. -Wats॰n Sanford, of Br॰өklyn, N.Y., fөr Imprevement in Hot-air. Furnaces :

 or pipes all 111 one prece, sibsitatially as and for the purpnsics de-
seribedid, Forming the firepot as well as the lower section of the
Secowither
 the comnencentent of the smoke fites, as and for the purposes set
for Third, Providing the furnace or heater with an culazed dome, b,


 35,181.-Watson Sanford, of Br•eklyn, N. Y., for Imprevement in stove Limings
I claim, irst, The pins, , as and for the purpose specified.
Second, The combnation of the pills, $b$, with the coprugati
cells or panels, de e substantially as and for the purpose set forth.


35,182.-John Shaefer, of Lancaster, Pa., for Improved
Attachment f or Bedstead hails:

35,183.-D. C. Smith and W. P. Walling, of Adrian, Mich., We clathn the combination with carrnate, $K$, of the phats, $M$, arrang:



35,184.-H. J. Smith and W•өdruff Jones, of Philadelphia Pa., for Imprevement in Apparatus for Testing Coal Oils and other Mixed Liquids:
We claim determining the anomin of volatile intlammate mater in
compomad laf mas by means of a thernometer and a thane, the ther-
 lattel and the valner gene
substantially as set forth.
$3 \overline{5}, 18 \bar{j} .-J$. P. Smith, of Hummelstuwn, Pa., for Improve ment in Com Shellers :
I claim the shiftugg breast beam, $n$, arranged and operating in combination with the shellng cylinder, $d$, substantially as and for the pur-
pose specited.
I also clatim the combination of the shelling bar, $j$, with the shelling I also clai,m the combination of the shelling bar, j, with the shelling
cyinder, $d$, and shifting breast beam, $n$, substantidly as set iorth. 35,186.-O. W. Stearns, of Jolinsen, Vt., for Imprevement in Wooden Tubing:
I chaim the tube formed by the combination and arrangement of the
parts, $A$, frrule, $B$, strainer, $C$, matching pieces. $\quad$, channel, $E$, and wre, H F, orits equivilent, substantially as described. 35,187.-R. Van Ormer and W. J. Bell, of McAllisterville,
Pa., for Improvement in Balancing Mill Stones : Pa, for Improvement in Balancing, Mill St enes
We claim the combination of the rods, $R R^{\prime}$, spring, $S$, zund
$S^{\prime}$ in tue mannel and for the purpose shown and described,
35,188.-W. H. White, of Woodlury. Conn., for Imprevement in Sheep Shears:
y m the manner described, and consisting or a steel bow, iron handles in the manner set forth. 35,189.-J. P. Walter, of Brooklyn, N. Y., for Improve-
ment in Vacuum Tanks : I claim, first, The anrangement of one or more air pumps, $B$, in
combination with the wheels, $\mathbf{D}$, eccentrics, j , and working beams

 35,100.-Chas. Wadsworth, of New York City, for Improvement in Car Ventilators :
claim the combination of the air filtering screen, I, and air chamI claim the combination of the air filtering screen, I, and air cham-
ber, with the arrforcing bellows, substantaally as and for the pur-
pose shown and described. ('This invention consists in forcing or injecting into a mailroad car pure air throug
pipes or pipes.]
35,191.-J. B. Winchell, of Chicag•, Ill., for Imprevement in Sewing Machines
Lro threads and sew rairmis orgmizan the same dirpection withon changint the direction offod or: -c character of se wng, with a single
pointed hork or interlocking device, substantionly as described, wheth


 purpers set firth.
Thired, The emmbin
 35,192.-G. L. Witsil, of Philadelphia, Pa., for Improved Nutmeg Grater
 5 r destribed and set forth.
35,193. -- J. P. Weedbury, of West Rexbury, Mass., for Im. provement in Arming War Vessels:

 ind for the purpore described.
Second, Combining a gan, constrat and emproyed in a vessel as

 Third, Displating the water from the bore of the gan between the
clarge and mankil. by means or air-tight displacing case, or its equivcharge and munzile by means of ai
alent, sulbstautially as described.
35,194.-A. E. Y oung, of Dorchester, Mass., for Reflecting Lantern
1 claim a glass lantern iwd as constrncted, with a lateral neck and and
opening or socket, aranged reratively to is top and botom necks and
oveming and forthe reception and opemings and forthe reception and fixation of a reflector, substantially
as specified
35,195.-Erastus Young, of Penataquit, N. Y., for Improved Washing Machine :
a clam the arrangement of the adjustable fulcrum pin, $f$, in combi
 Lorth.
|'This
adjustable futcon in os dilating pressure board, in such a mamerthat by changong the posi tion of the fulcrum of the hand lever the pressure board can be ad jisted for clothes of different size and of diflerent fabric, and that the clothes can then be snbjecteci to any desirable pressure and the wash ing ellected withont much
lei.st injury to the fabric.|
35,196.-C. F. Allen (assignor to himself and C. B. Beebe and H. Taylor), of Paw Paw, Mich., for Improvement in Car Bumper and Draw-head Springs
I clatim a car, Uninper or draw-head spring, constructed substantial
ly in the manner and for the purpose set torth. 35,197.- Victor Baron, of Tabance, St. Salvador, assign or
to himself and W.W. W. W $\bullet$ d, of Philadelphia, Pa., for Improvement in Concentrating and Cleaning, Ores: causingit to pass along an agitated chamel submersed in water, suls
stantially as set forlh. 35,198.-Hiram Carpenter (assignor te H. V. (ahagan) of New York City, for Imprevement in Construction of Railways:
of climm the cambination of the pedestans with wrought-iron cross. ins and chairs, or hlein ertur watent, and either with or without hin and for the purpose specified.
35, 199.-H. H. (Vill (assign $\bullet$ t $\bullet$ Erastus 'Yarbox), of Og
den, $\mathbf{N}$. Y., for Improvement in Machine for Packing Apples
I claim the combmation of the spring hook clamps, B B, with the
35,200-C. D. Ingraham (assignor to himself and C. A.
ant A. Bardivell). of South Falls, Mass., for Improve ment in straw and Hay Cutters
I clam a cylinder of knives formed by having the knives arranged
sets or pans which are shorter than the cylinder, and attacied

[This invention relates to that class of straw and hay cutters in which a cylinder of bnives is employed in comnection with arotatms cylinder to form a bearing for the cutting edges of the knives. The object of the invention is to obtain a machine of this class which wil work or operate with the usual rapidity and cut the hayonviran much longer than those hitherto constructed, and still be self-1cedng. 35,201 . . Josiah Mason, of Birmingham, England, assignor provement in Boxes, Cases and Cards for Pcos, fice: clatim a bux, case or card having a recess or recesses, 1:i noper
 selves, as set torth for the parpose specialitied.

Ce.), of St. Francisce, Cal., fer Imprevement in Ore
Crushing Mills : I claim, first, The combination of the stanpers,, , grathon, H elerd.
 as set forth. York City, for lmprovement in Baling Press


 35,204.-E. W. Seymour, of Lisle, N. Y., for Improvement in Method of Constructing Carriages

 dratt.
1,572.-J. W. Bush, of New York City, for Design for Ank-1,573.-G. B. Owen, of New York City, for Design fur a 1,574.- W. (i. Plelps, of Newport, Del., for Design for an 1,575.-Henry Terhune, of New York City, for Design fur 575.-Henry Ter
a Clock Case.

## New Publications

The Exchange. Published menthly by Sampson, Low Son \& Co., No. 47 Ludgate Hill, London, and Walte New York City
This is the initial number of what promises to be a weel-conducto
and useful perioxical, moving in a patl apart firom publications (iev o-

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