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P8 Pamphlets containing the Patent Laws and full particulars of the mode of applying for Letters Patent, specifying size of model required, and much other information useful to inventore, Scientific Ambrican, New Tork.

58,040.-Bolt.-David E. $\Lambda$ dams, Alleghany City Pa.
1ptlaim staving up or enlarging and forming into an oval or el
inhen viewed in cross section) that part of the rod o ron intended for the head and square of the neck of bolts, said
taving or enlarging Into said oval or elliptic form being done previong to the formation of the squaring of the neck and
porming of the head of the bott, which squaring and heading is
58,041.-Car Coupling. - Homer Atkins, Ply mouth, Ill.
I claim the a ustable frame, $K$, with cross bar, $h$, and cross rod
p, attached, in combination with the rack bar, 1 , spring, $j$, and hink. G, all arranged and applied to the draw
substantially as and for the purpose set forth.
58,042.-Globe Steam Valve.-James O. Attick Dayton, Ohio
I claim the arrangement of the shouldered valve stem of the
valve, $B$, with refrence to the packing nut, $D$, nut, $C$, and valve seat, F, for the double purpose of packing the stem and holding
the vave agalngt its seat, in the manner substantlally as de
scribed.
58,043.- Llarm Lock.-Seth A. Andrews, Farmer's Valley, Wis.
First, I clainn the connination of the sllding barrel, X, the trip
ger or dog,, the luy, M, of the barrel, and the sp ring. $P$, sub stantially as described,
Setoond I also claig the bolts $Z Z$ Z, constructed sabstantially as
described, one being a short bolt, in comblination with the claims, described, one being a short boit, in combination with the claims,
J , of the trijgerrarm, H , , ubstantialy as described. slde of the barrel chamber, gubotantially as described, with a
priming orifce, R , in the path of the sliding barrel, substantially as described.
Fourth I also claim covering the magaztoe with a cover, $J$,
weakened by grooves or their equivalents, substantially ae de weakenc
scribed.
58,044.-Apparatus for the Mandfacture of Vinegar.-Ernest Arleth, Cincinnati, Ohio. First, I claim the tub, A, having a chamber, c, in combination
with tubes, F, and conveying pipe,, , all constructed as above de scribed and for the pnrpose set forth.
Second The adjustable cold-alr pipe, E; constrac ed as above Third The cold-alr plpe, E, in comblnation with tab, A, as above
set forth.
58,045.-Combined Seed Drill and Cultivator Aaron Armstrong, Gillespic, Ill.
First, I claim the combination of the roller, $D$, with the sliding
 when the eame are all constrnct cd upon one common frame, A
from which any of the parts except the rollcr, B, may be removed at pleasure.
58,046.-Silindle for Spinning Filames.-John E. Atrvood, Mansfield, Conn.

First, I claim the inclined tube, D, provided at its upner end
with rescroir, in combintion with the sucket, B, and spin-
dle, a b, when sald socket is surround ed by a sleeve carrylng the whirr, substantially as herein set torth for the prrpose specitied relation with the annular slioulder, $r$, forined around the lower
end of the spindle, a b, substantlally as herein set forth for the purpose specitied.
58,047.-CeOrn.-John A. Balzart, Piqua, Ohio. I claim the combination with the suspended dasher of the plv
oted arms, F F forming a collar in hegroove of the shaft, D and the sidile, $G$, for retaining the saidcollar in position, substan
tially as described. 58,048.-Machine for Cleaning Grain.-Benjamin Barney, Time, Ill.
 F, and spring,, in communicated to it by the cam or ec eentric
 with the adjustable or sliding welght, g , snbstantiallyas and for
the parpose pecificd.
I lurtler clain the extension support, J , formed of the two I parther clain the extension support, J, formed of the two
parts,d, doconnected by the cc ew, e. for the purpose of varying
the inclination of the shoc, E, ay yet fortl. 58,049.-Cane Stripper.-William N. Barr, Richmond, Ind.
frame, when constructed, arran of several sets of strippers in on ner, substantially as hereln described, that one spring acts upon


58,050.-Grain Screen.-C. F. Baylor, Trenton
N. J. I claim the combination with the sleves, A B, and chute or con-
ucting board. $\mathbf{C}$ of the conductor, EE, All arranged to operate 58,051.-Paper-making Machinery.-Edward B. Bingham, Newark, N. J.
Iclaim the arrangement of t wofelts and four pressure rolls, a
herein described, whereby the web is pressed three times betwee the two felts, in combination with the arrangement of the doc-
58,052.-Grain Sepaicitor.-John S. Bodge, La Porte, Ind.
 H, between, corresponding in number with the smoth with or lnuter forated surtaces,, and openligg obliquely or sloping downward
pearly or quite their entire length, said chutes being so located







 58,053.-Skirt Elevator.-P. J. Boris, Boston, , 8 ,
 deseribe
den,
$58,054$.
58,054.-Liquid for Carbureting and Enrich
ing Gases used for ill dminating and heat
ring. - John F. Boynton, Syracuse, N. Y.
 ing gas or alr products hy combining one or more hydro- carbons,
derived from the petrolen, or its equivalent, with one or more
hydroctarlons ot the cosi-tar scries
 combining hydro-carbono of the coal-tar series with those $\alpha$ th petroleum series, substantially as herein described. dird Ialso claim the method or process hereln described of
Thanafacturing liquids for carbure ng or enriching gas or air by combining liqualds for carbured ng or enriching gas or air
by core lydro-carbons derived from petro leum or its equivalent, with one or more nydro-carbons of the
coal-tar series.
58,055.-SAFETY ApPaRATUS FOR GAS MACIINES 8,055.-Safety Apparatus for Gas Machines
and Carburetors.-John F. Boynton, Syra-
and Carbu
cuse, N. Y.
I claim a safety device, composed of a body of coolling material,
as metal or other good conductor of heat, inter posed between the ro metal ard carburetor, and aco arranged as to present an exten
burner and
sive surface or beres of surfaces to the carbureted air on its pass sive surface or serles ofs arfaces to the carbureted air on its pass
age to the branner, thereby beeplag it at a temperature below the
polnt ot lignition. 58,056.-T Square.-Austin Bronson, New York City.
First, I claim the bevel stock, $D$ so constructed and applied to square, and thas enable the instrament to be employed for mak
ing right or left-hand angular lines withont interfering with the
head, B, of the square, substantially ask herein set forth. head, B, of the square, substantiaily as herein set for
Second, The tangent screw, e, ilding frame, gind and anding
screw, f, arranged with reference to each other, and with the square. A B, bevel stock, D, and se
set forth for the purpose specifled.
58,057.-Hot-air Furnace.-Benjamin Brownell
Chicago, Ill.
 taily as and for the parpose herein set forch.
58,058.-Alarm Clock.-J. E. Buerk, Boston, Mass. Firat, I claim the arm. i, and segmental disk, 1 , in combinatio operating substantialiy as andfor the purpose se forth.
Secontl. The serrated segment, $m$, in combination the Second. The serrated segment, m. In combin nation with the
tooth of the watch-key, o. and with the alarm movement, con
atrncted and operating substantially ae and for the purpose desoothcted
strilised.
58,059.-Cnurn.-William Burson and D. C. Bur-
son, Salineville, Ohio.
 frame, F, cover. D, and box, A, the said paits being conatructed and arranged substantialy as and for the pur poses set forth.
Second The combination of the perforated gatherng board, M,
with the box, A, and duaher, C , substantially as d descr ibed and for he parpose ect forth
58,060.-Planter.-William F. Caldwell, Oxford,
Me.
First, The combination and arrangement of the hopper, e, applitd, and operating as liercin set forth and described.
second, Connecting the plow and coverer to the carriagebody Second, Connecting the
in the manner described
58,061.-Cooking Stove.-James Chambers, Boone-
boro, Md.
Thecomblnation of the parts, $D$ and $E$, when the latter is con
structed and arranged in relation to the former, as shown and described and for the purpose set forth.
58,062.-Safety Pockets.-James F. Chambers, Utica, N. Y.
First, The pocket, A, provided with a spring arm. G, upon ite upper'end when comblned together and arranged soas to operate substantiallyin the manner and for the purpose described. 8ide of thie pocket, A for the par pose specined. Third, Also in combination therewith, the perforated spring or flexible band, E , secured to the pocket, A , for the purpose de
scribed
58,063.-Receptacle for Waste Water of Well
Tubes.-Daniel P. Chesbrough, Lansingburgh N. Y.

The receptacle,A, having float, I, and valve, $G$, in connection gard thereto and oonnected w ith the well tube, whben arranged with re
and for the purpose described. 58,064. - Many-barreled Fire-arms. - W. J

Christy, Philadelphia, Pa
First, The application to the trigger, E, of a vibrating arm, $d$,
and lever,, , , contructed in such a manner as to effect the rel ease
oithe it the lammers in sulceession, sabstantially as described.
Second. The application of a guard, $G$, to the trigger, $E$, in combination with a contrivance whild will lock this guard in
front of the trigter when the breech of the barrel stantlally as described. Third, In comblination with a barrel which has an end play and Which is pivoted to the frame or the piece, I clainn the spring latch,
b, slldeg k and ${ }^{\text {b }}$, and a tripger guard, $G$, arranged so as to oper
aie subs ate substantially as described. 58,065.-
The comblnation of the trough, B, feed receptacle, $D$, and
covers. E and $F$, witheach other and with the frame, A, of the
raok, when said parta are constracted and arranged substan
wand
58,060.-Handle for Sad Iron.-Henry Clarkson Peekskill, N. Y. Antedated Scpt. 5, 1866
 58,067.-Boot Heel.-Frederick Closs, New Haven Conn.
 58,068.-SAW Mill.-Geo. W. Coddington, Middletown, Ohio.
First, Tbe trestle, D, constructed and arranged as herein de
ocribed in conbinaton with the earrlaze, C, and op crating sub
stantlaill an and for the purpose set forth. second, The combination of the sprin. , F, catch, G, chain, H,
snd trestle, $D$, with the car riage, C, substantially as described and for the parpose set forth
58,069.-Capstan Windlass.-Z. E. Coffin, New ton, Mass.
 forth.
Second, I clatantially in the manner and for the parpose 86
 Third, I claim the two or more rollers, y, in combination with
and to suport the wind
stantlang .barrels and slaft, $t u$ and $V$, sub 58,070.-SAd Iron.-Elisha T. Colburn, Boston, Mass.
I claim the heat reflecting guard, C, made sabstantially as de

57,071.-W agon Shackle.-Lucius M. B. Coleman,
Danby, N. Y.
First, I clalm the use of washers or metallic cylliders in the
ears of a waon shackle, and transfer as far as possible the wear n the shack le joint to the surfaces mad e by the periphery of the same and the said ears, when Mrtually inade as descrised.
Second, I clalm the described beveling of the washers and of
the corresponding holes in the ears of the shackle for the purpose of tightening the shackle from time to tinie a a described.
ThTrd, I claim the combination of the described device or de Tces, for preventing motion about the iron holt but alloowing the same about the washers or cylinders, and of the washers or
cylliders in the eyeso the ers of the shackle with the wearing
surfaces in the sajd ears. the same making a whole as described 58,072.-Tobacco PiPE.-Malcolm M. Coppuck Philadelphia, Pa .
I clalm a tobacco pipe consisting of the open bottomed fire and
tabacco chamber, A, neck piece, d, exhaustchamber, , and and stem,
C, the same belng arranged and combined together as and for C, the same berng arranged and combined together as and for
the purposes described and set forth. 58,073.-Horse Rake.-Nicholas C. Decker, St Louis, Mo.
First, I claim the construction and arrangement of the rock
shaft, c, and its springs, cs and c4, its levers, cl, and the bai cu, as
described and set forth described and set forth.
second, I claim the arrangenent of the segmental grooves, $b$,
of the post, B, for the purpose of rendering easy the revolution
of rake.
58,074.-Valve Geali for Steam Engine.-Wil-
liam Dennison, Washington, D. C.
First, I clalm the cam, H, arranged to operate in such a way
as to cause the valves of steam cylind ers to move continuously as to canse the valives of steam cy litidera to move continuously,
while the pliton of the stcam cyll der be in motion by stuad or pin on the piston rod or other attachment producing the same re-
sult, substantlally as set forth. second, A steam cyllnder having its openings and valves ar-
ranged on a line with the axes of the cylinder, substantially in the
 58,075.-Horse Rake.-Joseph Dillier, Grecnsburg Ind.
I clalma horse rake having the teeth, E, attached to a hinged
beam F, retained when down by a hook, $G$, and disengayed and beam, F, retained whon down by a hook, G, and disengayed and
ralsed by a levar, I, the said several parts being respectively
constructed and combined for use by intermediate mechanism ar-
ranged substantially as set forth.
58,076
, Maciinery for Cutting Key Seats. -
I claim the spindle, $X$, In combination, with the plate, P, plvote
o the fianges, $O$, and adjusted by set screws, RR, constructed an
arranged substantially as described for the purpose specified
58,077.-TwEER. Levi A. Dole, Salem, Ohio.
I claim a tweer which is composed of blast pipe, A, and a
chambered portlon, B, cast in one plece, substantially as described. 58,078. - Ice Breaker. - Charles. W. Dunlap,

Brooklyn, N. Y. Antcdated Sept. 5, 1866.
I claim the ice breaker formed with a metait band around the
larger portlon of the wooden handle of the ice pick, as and for the urposes specifled
,079.-Rifle Box.-Rhesa H. Dunning,North San Juan, Cal.
I claim the rilfe box, C , damwall, D , or thetr equivalents, to be
employed or saving gold at any point where there is a divide of
waters, Bubstantially as described. 58,080.-Straw Cutter.-J. Eiberweiser and R. Weber, Cincinnati, Ohio.
 58,081-Protectina Animals FROM THE

THE SUN.-Charles Elveena, New York City I clat m the method herein specifed of protecting animals from
the heat of the snn by a shicid, constructed eube antially in the
manner anner 8
Pa. - Cultivatoré-Samuel P. Etter, Scotland, $\underset{\text { First, }}{\mathrm{Pa}}$
First, I claim thecompound levers, $R$ and $Q$, connccted to the
plow beams 8 thebraces or rods, $V V$, Wheu constructed and


58,083.-Hand Propeller for Small Boats.John Fehrenbatch, Ind.
2 I clatm the combination of the bevel wheels, 3 and 8 , the ratchets, shaft, 1, and lever, 17, and with the pinion, i, on the shaft 13 ,
whichpropels the screw, all applied for the purpose of propeling
small boats.
58,084.-Skate.-M. Fleisher, Philadelphia, Pa


58,085.-Pdarr.-A. F. Fletcher, Athol, Mass.

 58,036. - Rotary Steam Engine. - Matthew Fletcher, Louisville, Ky.
 riuq nivera, fyers end and half rounds, ciccecce, in drum, $m$,
 bort or
Bhat.
58,087.-Apparatus for Generating and Burning Vapor of Hydrocarbon Oils.-Henry R Foote, Oil City, Pa.
I claim, First, The combined retort and gas holder, construct

 Torthi I I clatm the tubes at the bottom or the retort with appply plpes elong ated it as toextend into the gas holder. as deeortbed
 58,088 .-Amalgamating Gold with Meicury. M. Foremau and J. R. Mathewson, Philadel



58,089.-Ore Quartz Crusher.-Joseph Fowler, Rahway, N. J



 58,090.-Car Codpling.-Robert G. Fowler, Olney, Ill.

 58,091 .-Clasi for Mail Bags.-Leander Fox New York City

38,092. - Apparatus for Inserting Fusible Pidgas in Steam Generators.-Joseph French, Pittsburgh, Pa .
Iclaim the combination of the ring, c. for holding the fusible

58,093.-Water Elevator.-James Freret, New Orleans, La.
 when these se everal parte are consiructed and conjoiutly operate 58,094 - - Bridge.-John H. Gilbert, Roxbury, Mass.
 58,095 - Apparatus for Separating Gom from

Cane Juice.-Henry Gortner, Deavertown Ohio.

 ous parts being constructed and arrange
58,096.-Bolt-heading Maceine.-Chas. Hall and EmiT Hubner, New York City.
First, We claim the combination in a boblitblank machine of the








 die, gage and can, and carriage gib Lantially as set forth.

58,097.-Lamp Burner. - Thomas Hall, Bergen, N. J.

I claim the connections, A and B, and stop, $\mathbf{C}$, substantially as
described for the purposes set forti. 58,098. - Grandlating and Drying Sugar. Jesse Hanford, Lexington, Mass.
I claim the comblnation of the rotary toillow drum or cyllnder,
I , and the tubnar heater, arranged and connected substantiall






58,099.-Feed-water Heater.-Geo. Hasecoster 58,099.- FEED-WATER HEATER.-Ge
and J. Stephens, Richmond, Ind.



58,100.-Desolphorizina Ore.-John A. Hitch ings, Denver City, Colorado
 Be and for the purposed escribed. apply tank, K , as and for the purpose
58,101-Spinning Machine.-Charles B. Hoard
Watertown, $\mathbf{N} . \mathbf{Y}$.

 anner described.
second The
The
ocmbition or a removable twisting tnbe or
 Thrd The combination or a removable mane or aspridle with the whirl tube and drawin\} rallers, when constructed, arranged,
and oprating substautlally in the manner and for the purpose
zet forth.
58,102.-Pencil Holder.-Henry W. Holly, Nor wich, Ct.
The holding stem or tabe, A, provided with a single silt, e,
Cormed longitudinally in one side thereor, in combination witi the sidilng ring or colliar, C , subst ntially as herein set forth for
58,103.-Hoisting Apparatus.-George L. How land, Topsham, Me.

 58,104.-Machine for Making Nuts.-W. W. Hubbard, Philadelphia, Pa .
First, claimm the revolying dilik,' $J$, with its recesees, $Z$, in com DInation with a series of punclues and alies arranged in a circree
the whole being
 operating snbstantially as and for the purpoese specifed.
Third, The combliation of the boxes or casinge, c, prnches,
d and gibs and kevs, the whole belig arranged subst ntially as
Fourthe phe caree sert M and $\mathbf{M}$ ', with their adjustable hammer
The whole beting arranged inc conjunction with the rot ting difi
Jeberiberate on the blank, subst ntially as and tor the purpose


 punch, ds hammer
parpose describect.
58,105.-Magneto-electric Apparatus.-Jerome
Kidlder, New York City.




 ThVe or ciflusive Infiuence. the screw opposed to the vibrating ment as represented $\mathrm{ty} \mathbf{v y}$, operating gnbstantialy in the man

58,106.-Medicine.-N. Kieffer, New Orleans, La I'clalm the medical compond composed of the ingredienta
nerein named and mixed together, in or abont the proportions named.
$58,107 .-O i l e r .-P a r l e y ~ L a f i n, ~ W a r r e n, ~ M a s s . ~$
 58,108.-Rack for Hading Wood.-Abraham

Landis, Colesburg, Iowa.
 loops or stirrups, D, in the manner and for the purpose explalined. 58,109.-Anti-friction Jodrnal Box.-Henry M.

Le Duc, Washington, D. C.

 58,110.-Horse Hay Fork.-Thomas Lloyd, Muncy, Pa .
 58,111 .-Apparatus for Upsetting Tires.-Levi W. Loomis, Homer, N. Y.

I claim the mox rahlo plate, B, provided with the notched ntrlp,

58,112.-Shovel Plows.-William H. Luce, Hampton, Ill.
 58,113-A
.-Apparatus for Distilling Petroledm etc.-Orazio Lugo, New York City
First, I cladm the admision of air or gas into the goose-neck or
exit $n$ pe or the stul, substantially as and for the purpose hereit pecond, Varying the polnt of admlssion of the air or gas, B, int
 58,114.-Spirit Meter.-Wm. Magrowitz, New York City
Firct, I claim the arrangement and constraction of the wheen
A, Povide dioat, $G$, operating in the manner snbstanthally ad
E, in cond. I clagm the arrangement of the levers, $D$, with theroller, set screws, C and D, In the maner and for the parpose set forth





Sixth, I claim the trame, 8 , In com bination with the needle, N
aud



 When arranged and operating to erether so and io amd the thand

58,115.-Car Brake.-Samuel McCambridge and Edward G. Martin, Philadelphia, Pa .

 58,116.-Ore or Quartz Crusher.-E. P. McCarthy, San Francisco, Cal

58,117.-Device for Holding Rolled Wors While being Stitched.-Wm. M. McCoy Bloomingdale, Ind
I claim ade vice for holding rolled work while belng, stitched,
consir $\mathbf{r c c t e d}$ and operating substantially as specifed, that is to
 58,118.-Blow Pipe.-Josiah McFarland, Clinton, III.

 58,119. - Plow. - F. W. McMeekin, Morrison's Mills, Florida.
I claim the standard, C, constructed or a single met 1 bar
 58,120. - Safety Attachicent for Pockets.John Metzendorf, New York City
 catchat the other end, and proilded withe eletets or other means
or attaching it to the pocket, all substantially as herein deccribed. 58,121.- SAdDLE.-Jacques Meyer, Williamsburgh, $\underset{\text { I claim the }}{\text { Y }}$
 in the manner herein described
58,122.-Lantern.-F. Meyrose, St. Louis, Mo

ture or furd that may escape on trin. Recond colanm the cap, F, elthe
Iators, substantlally as described.
58,123.-Edae Plane.-S. Miller, Urbana, Ohio
ICladm the exposing or the catthn edre or bit, B, always evenly
and deinrely
at one operation, as described, or any otherway aub-
58,124.-Snow Plow.-Robert B. Nevens, Lowell, Mass.



58,125.-Corn Cultivator.-D. I. Noble, New Boston, Ill.


58,126.-Machine for Pouncing Hats.-Emile Nougaret, Newark, N. J.
First, I clatm the emivel diak, B, carrying the block, D, in com. $\leqslant$ k, constracted Auli operating subetantialy ae and for the pur

 oonncing roilers, k k, and block, $\mathbf{D}$, all il constructed and operating
 58,127.-Locomotive.-Joln C. Parker, Chicago, Illinois.

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 58,128.-Anchor.-G. C. Pattison, Baltimore, MC.
 58,120.-Straw Cotter.-S. Pettibone, Corunna, Mich.




58,130.-Fastening for Gate.-Pompcius Philippi, Beardstown, Ill.
 58,131.-Shirt Bosom.-C. F. Pidgin, Boston, Mass.
 58,132.-Asi Sifter.-Charles L. Pierce, Buffalo, N. Y.

I claim tim inclosing case, A, and removable charger, D, the
galdcae being atteed to receive and support the charger, and the

58,133.-Dental Mallets.-Chandler Poor, Dubuque, Iowa.

58,134.-Machine For Making Screws.-Treat
T. Prosser (assizpor 'to himself, G. W. Gillet
J. A. Eastman, D. Rimbark, J.' R. and D. H. Wells), ©hicaro, In.
I claim the methodof forming the threads on screws by means


with the anty

 the follower,, alranged to operate as de decrbed, for
of fecding the blanks into the shart, $F$, as setiorth.
58,135.-Corn Planter.-A. Putnam, Owego, N.Y. Firrt, I Claim the drill tooth, $G$, wheel, $F$, and adjustable slide
 of the camb, D,
58,136.-Car Brake.-J. Wyatt Reid, New York City.



58,137.-Machinery for Making Nails.-Samuel
G. Reynolds, Bristol, R. I.



 hat the forne er shall changene its position relatively to the later

58,138.-Flat Iron.-E. B. Robinson, Portland, Maine.
 8139-S
,
 to adjustitselfot the varying izize or the horse, for the purposes
and aububtantialy usherein deesribed.
58,140.-Machine for Harvesting Beans.-D. C.
Rosier, Clarkson, $\mathbf{N} . \mathrm{Y}$.
claim the arrangement orthe L-8laped caters, C , In combina-
tion with the elevating or adjusting devices, in the manner and
tion
58,141.-Truns.-Alfred V. Ryder, New York City



58,142.-Hook For Davit-fall, Block.-William
R. Satterly, Port Jefferson, N. Y.

I I claim the conthinat:on, with the davit-fall block, of the hook,
58,143.-Corn Harvester.-Samuel Secrist, West Iiberty, Ohio.



 operstrg thbeantialy an an or tha porpoobe secinfed the stand

58,144.-Washing Machine.-Henry Sidle, Minneapolis, Minn.

58,145.-TwEER. - Thomas Sinnott, Brooklyn, N
Y., and James McIntyre, New York City.
 blast to travel back and forth wit tin the $t w e e r$, for the purposes Secood, We claim the valve, 1 , attached to the block, m, in com
Dnaton with the blast pipe. a, for the purp ones set forth.

58,146.-Brice Kiln.-Francis H. Smith, Baltimore, Md.
 nications with ash pites.
 58,147. - Coltivator. - Andrew Stark, Topeka, Kansas.
I claim the pivoted bars,L L Lhaying the driver, seat,N, attach-

58,148.-Roofina Cement.-Jesse Stow, Geneva
Ohio, and James White, Clevcland, Ohio.
herein named and compounded, as specified.
58,149.- $\Lambda$ malqanator.-Stephen G. Sturges, Newark, N. J.
I claim the fute or pocket, t, when attached to a reciprocating
or revovint cylinder, in the manner and for the purpose substan-
tially ges ghown
Hail ab thown
when, the obit, w, extending across as apports to the eyllinder,
der.

58,150.-Deep Well Pump.-J. W. Summers, Tar Farm, Pa .
First, I claim suspending the piston of a pump from the pump
od by means of a ball and socket joint, substantialy as de-
Second, I aloo claim the cylindrical stop, $\mathbf{Q}$, having its upper
edge leveled as silown, for the purpose of catching rivets and other objects, and directing them into the piston, substantially a
58,151.-Saw-filing Machine.-Alvah Sweetland,
Syracuse, N. Y.
Claim the swing bar, the adiustable table. the fay, the dog, the the conuecting rod. the whole beeng a arranged and combined sub
stantially as as and for the purpose get forth.
58,152.-Chuck.-Royal H. Thorn, Syracuse, N. Y
 58,153- Вотт

Latayette, Ind.
,
 Insertion Into base pra, and, pronth a flange tor the reception of the

58,154.-Artists' Stretcher.-Joel E. Todd, Mid dletown, Conn.
Making the angle of artists' stretcebers self-adjusting by means
of aring ing, $F$, or equivalents therefor, substantially as herein de
58,155. - Machinery for Making Railroad
Chamb.-William Van Anden, Poughkeepsie, N. Y.
 ip thanges and a projectip base on said pate, thin substantlally


 and
and an former, e, eubstantially as de decribed.

 purpose of frrming a metal chair having a continuous 1 lp , substan-
tialy as described.
sixtli, Making from a plate of me tal, ly one machine, and by




 as described and ior the purpose set forth. ard Vose and Wm. Toshoch, New York City.
 one or more 8 wating and forming whels and roilers, revoiving
in
58,157.-Oil Can and Oller.-James E. Weaver Temperanceville, Pa.

58,158.-Har Rack-D. N. Webster, Geneva, Ohio




58,159. - Ventilating Pipe for Stoves and
Heaters.-A. A. Wild er. Detroit, Mich.
 58,160.-Toys.-Job T. Williams, Philadelphia, Pa
 58,161. - Gate. - James F. Winchell, Springfield, Ohio.


58,162.-Improved Machine for Wiring Sheet-
metal Pans.-F. M. Wools, York, Ill.-Ante
lated Stept 2,1866.
1 claim the siding, section, C , in combination with the adjusta-
Ie croo ved wheel, D, arranged in a anitable iraming, to operate in the manner substantially as and for the purpose herein set
forth.
8,163 .-Disinfectrant.-Lucy Broad (assignor to
Charles A. Broadl), St. Louis, Mo.
Ir claitit the combination of the materials herein described in the
58,164
to himself and John E.-E. P. Chase (assignor
to himself and John Eaton), Rockland, Maine.


 set forth, The cap, g , weigited lever, F, and diaphragm, 1 , in com
Finauth


58,165.-Egg Beater.-Charles McDrennan, Bos-
on, Mass., assignor to Wm. P. and Istac Gan nett, Roxbury, Mass.
the claim the gaze dy diapra, e, when anported and inserted by
thed.

58,186. - Combinen Corn Planter and Broadcast Seeder.-Andrew J.Edgett (assignor to himself
John W. Ferry and A. Graves), Hornellsville N. Y.

 58,167.-Clamp for Planiing Floors. - H. B Gregy (assignor to himself and James Gable) Camden, Ohio.
I claim the clatup, A, the bar, B, the guide, b, the prese block,
the
lever,, , the con tructed, arranged, and operating as and for the purpose
58,168.-Necetie. - Ira W. Hamlet (assignor to himself and Henry J. Chapman), Nashua, N. H
B claim the new manuuacture or necktie as made mad arranged with the part or hor cravat, A , substan
,
Che stifener or plate, Cination of the cravat hook and stiffener
the eame elame theing for the parpose eet forth.
58,169.-Composition Roofing.-James G. Holli-
day (assignor to himself, Wm. Hastings, J
Harlan and R. A. McCabe), Wheeling, West Virginia.


58,170.-Attachment for Pumps. - Thomas J
Jones, Summit, N. J., assignor to Charles J Eames and Wesley Welty, New York City.
I clain a a guetion attachmen by which a pump may ho con
stantly sapplied with water, and the introduction of of olid sub slancese to choke its action may be prevented, all substantially in
thic manner above described.
58,171.-Covering for Floors.-Clement Keen
(assignor to Keen \& Co.), Philadelphia, Pa.-Ante-dated Sept. 21866.
 58,172.-Weight.-Daniel B. Lacy, Mott Haven, N. Y., assignor to himself, Isaac A. and Thomas T. Lacy, Jersey City, N. J.

The con struction of weights, with an outer casc of sheet meta
 58,173.-Molder's Flask.-E. C. Little (assignor to Eveline Little), St. Louis, Mo.
The combinatinn of the hinge.s, B B, and the pins, C C, with the
protecting rames, D , when cast together ill one plicec, and so

 tially as herein described.
58,174.-Bottle Stopper.-John Mulchahcy (assignor to himself and Charles Mulchahey) Springficld, Mass.

 fastened by a catch or latchat the other, substantially as est or the

58,175.-Drilling Machine.-Robert Nutty (assignor to himself and John Scott), New York City.
 and connected, bo hung that it can be adjasted to enabie the
drilit to be bronght to bear agalnot the surface or the rock or othe








 der, In connertion with which it moves, substantially as and for Sitctht, The arrangeement of the bevel pinion, H 2 , on the drill rod
ratchet pinion, hung in tationary bearing of the frame, C 2

 anr crank shait. 04 , rod, 44 , connected $w$ ith crank arul
 Bryed together fo as to operate n pon the drill rod, substantially Etghth The arrangementand constract ion of the rramework of

 58,170.-Piston Packing.-William $\Lambda$. and Thoma F. Powers (assignors to William A. Powers), Brooklyn, N. Y.
 et forth for the purpurie specelitied.

 eherein specilled
58,177.-Plow.-John A. Quick (assignor to himself and Charles R. Holliday), South Danville, N. Y.


58,178. - Sioe Shinnking. - Timothy K. Reed, Elast Bridgewater, assignor to Samuel J. Shaw and Thomas Corey, Marlboro, Mass.
 haniny, thi opposite scarf of the next plece to formed thereby,



58,179.-Low-water Detecior for Stenm Gene-
ratoris.-Thomas Savill (assignor to C. Jones and Cadbury), Philadelphia, Pa.
1 claim the hollow spindle, $C$, with its valves and openings in b, the whole being constructed and ope rating s ubstantially as and or the purpos
58,180.-Burning Fluid.-John B. Scott, Hyattsville, Mcl., assignor to himself, Geo. Hall, Hrince George Co. and S. Mop, Baltimore, Mcl.
I clalm the use ofthe above deseribed ingredients, composed as
and ior the purpose herein specilied.
58,181. -Sewing Maciine. - Sidney M. Tyler, Brooklyn, N. Y., assignor to The Empire
ing Machine Company, New York City.
ing Machine Company, New York City,
I claim the ricking shatt ${ }^{\text {g }}$ crank,
driver, m, ink, arranged and acting on the shattle in the manner river, m, arranked and acting on the shattle in the manner
specified, in combination with the needle bar, mand cam, for for

58,182. -Sewing-maciine Siiuttle.-Sidney M Tyler, Brooklyn, N. Y., assignor to The Empire Sewing Machine Company, New York city.
I claim the tapering r ear ward pr ojecting point, 3 , of the shattle he rear of the heel of the slauttle, as and for the purposes set forth 58,183.-Mnchine for Cutting tie Corners of PAPER IN THE MANUFACTURE OF BOAES.D S W M. Seymour), Newark, N. J

First, I claim the providirg of the knife or cutter, I, with pend-
ent kirs, g , to serve as auides for the same, substantilly lu the
 knife or cutter, 1, subs mitially as and for the purpose set forth.
Third, Tise graduating of the edges of the opening, d, in the bed plece, F , In combination with the wdja
stantially as and for the purpose set forth.
58,184.-Railway Chair.-Thomas Whittemore assignor to Edmund G. Lucas), Cambridgeport, Mass.
I claim the combination and arrangement of the two wedged
Jaws, C
C , and the wedge socketed base plate, F , constructed, ar. ranged and applied together, substantianly as and so as to operate

58,185.-Fruit Jar.-J. F. Winchell (assignor to himself and Joseph Leffler), Springfied, Ohio.
First, ie claim the circular bead, b, on theunderside of thecap
Second, The pressure lever D, having projections, c, cam-lever,
E, in combination with the bidge, C, and cap, B, when arranged
to operate substantially us described.
58,186.-Instrument for Cutting Teetir.-Eugene Bourguard (assignor to himself and Pierre Boisset, Paris, France.
I claim a perforated tube in connection with a handle or any
other contrivance for closing the open end of the tube, together with a sponge or other porous substance to be used as above de. scribed
tubetliled with sugar or any oother sweet su bsit.
sistency as will not require a sponge to hold it.
58,187.-Cotton Gin.-Frederick T. Ackland and Ienry G. Mitchell and Mustapha Mustapha Ziasazig, Hgypt.
We cluim the ntplication and use to and in the Macarthy cotton
gin, or other cotton fins ot a like ctaracter, ot a feeding bar or or grating, for the purpose of pusbing the cotton up to the gum. and illust rated by the annexedsbeet of drawings.
58,188.-Cultivator.-Alexander Anderson, Lon _don, C. W.
First, I, claim the mode of suspending the cultivator frame
beneath the levers, $J K K$, soartranged, as described, to give it the necessary
lateral and vertical play. ateral and vertical play.
Sccond, The slotted extension axles, F' F', counterpart central
portion, , and bolts, S S, constructed and operating as described nd represented.
58,189.-Appaisatus for Indicating the Speed of Vessels.-Thomas Walker, Birmingham, Eng I claim the adaptation or combination of means forming ap work and index are placed infront of the vanes of the rotator and they are defnititely acted upon to have motion given to them in
the rotation of such vanes and in wnich the rotating vanes and the chamber containing the wheelwork are immediately con-
nected, substantially as explained.
58,190.-Machine for Slicing and Drying Peat--A. H. Emery, New York City.
 gether, substantijally as sppeclided.
Second, The combination with the knife or slicer, 9 , and its second, the co mover, of a revolving toothed breaker, arranged
pronged stock or coven en
and operating to tother essentlally as and for the purpose or pur-
poses hereinset rorth.
Third, Conneting the knife stock with the rrame of the vehicle
by means of slotted side uprights made capable of vertical a djostmeans of slotted side up rights made capable of vertical a djost
ment through the orame as spe clfed.
Fourth The combination with the siling uprights of the knife Fourth, The combina, on win the siding uprights of the knife
stock, or the lever, 2, , screw not or box, 2, , bnd its adjusting
screw for action logether, asown and described. Fifth, In combination with a revolving toothed breaker, the
hangers, 5 sapported by or on the ale of the runing wheels alilo
carry ing the revolving shaft of the breaker with its gear and made adjustable
58,191.-Rotating Harrow.-Silas Grenell, Mokena, Ill.
I clain a revolving harrow, wben constructed with a frame, A by thic wheel, I, attached to the tongue, the har row taridng upon
awrist pin, E, and having an arm, $G$. car resting upon the track,
parts being respectively constructed and arranged for use, subtantlaily as set forth.
58,102.-ChURN.-John R. Mickey, Chicago, Ill I cladm the comblnation ofthe cog dashers, B spdA,
otructed pabstantially as and for the parpoeseet forth.

58,193.-FENCE.-Benning Rowell, Elmira, N. N I clain a portable fence so constructed that the bpards or ral
A1 and A2, sup porting the panels ghall be liter locked and sit talned npon posta, B, and be held in place by intermediate 1
placed hooks, C. fastened to short posts, D, and arranged to operate substantially 48 set forth.

## REISSUES.

2,357.-Process and Apparatus for Carburet ing Gases for Illumination.-John A. Bas sett, Salem, Mass, isssimnor to Thomas D. Wor rall, New York City. Patented March 4, 1812 First, I claim the combination, substantially as herein described,
of the vessel, A, in which the gas passes circuitously over th surface of the hydro-carbon liquidis to be partly carbureted an
coled by the evaporation of the liquid
and the vessel, B, con cooled by the evaporation of the liquidd, and the vessel, B con-
taining paroub abstance, and saturated with such pipoti,
through which the gas subsequently passes, as herein set forta through which
and described.
second, The
Second, The gas regulating valve, j, and foat, $k$, combined with
 cesses. Thir re guird, I claim, in con bination with a carbur eting apparatas, a
described. Furth. The usc of carbon-spirit or light products of petroleum
for the purpose of carburcting air or of enriching and carboniz ing any kind of gas.
2,358-Preventing Rattling in a Carriage.William S. Chapman, Baltimore, Md. Patented Aug. 8, 1854.
First, I claim the employment of blocks of India-rubber, or ing in position when interposed between the ends of the carria second, I also claim the use of india-rubber blocks, or othe
and equivalent elastic materinh, interposed between the ends of ca compression as to hold he bolts in place independently of the nuts, and also to
Third, Finally, I claim as a new manufacture a block of indla rabber, or other equivalent elastic material, int ended to be used
as herein contenipated, when nade su ustantially in the form de as heren contenplated, when nate sustantially in the form de-
seribed, that lis to sav, when so slapel that it will reman per
manenty in place, and perform its lunctionh without the ald of manentiy in pla
any other special
above set forth.

2,359.-Operating Slide Valves in Direct-acTIOD ENGINES.-G. W. Mubbard, Brooklyn
N. Y., and William E. Conant, Little Falls N. J.' Patented Jan. 9, 1855.

We claim, First, Socombining a main engine or motor, a supple-
mentary valve-working engine and their maction and eduction valve or valves, that the movement of the value or valves of the
main engine ormotor commenced and partly effected by the miston of said engine, and completed by the piston of the by the
pite mentary or valve-working engine, substantially as herein de Second, When two direct-action engines are so combined that
the movement of the induction and ednction valve or valves of one is produced by the movement of the piston of the other, we
claim the arrangement of the cylinder and piston of one engine scribed. In operating the sllde valve in one direct-action engine Valve with a tappet-rod op erated by an arm on the platon-rod o Its own engine, that the eald rod and val ve may bave each a cer
tain amount of motion independently of the other, substantially as and for the pu pose bereps spectfed.

## F , and i. and forth.

, substantially as described for the purpose se
2,360.-Hay-hoisting Maciine.-John S. Lloyd, Salem, N. J. Patented April 24, 1860.
First I claim an elevated way or rallroad, A in combination manner substantially as herena shown and described.
 railway to the barn or frame, so as to allow the wheepporting th thit
the attached blocks and fork, to pass freely along the leng wither the rall. e, spring, and cord.
2,361.-K ов Latch.-Wallace T. Munger and J A. Leggat (assignees of $W$ allace $T$. Munger) Branford, Conn. Patented April 3, 1866.
First, I claim the follower, E, recessed in its rear side, in com.
bination with the bar, a. of the yoke, $H$, attached to the latch bolt, substantially as and for the purpose secified.
Second, The hose shoe, F, hink, I, and spring, M, in combination
with thelock bolt, D, substantially as and for the purpose set forth.
2,362.-Wagon-shaft Shackle.-H. D. Smith, G F. Smith, and Edward W. Twichell (assignees of James P. Thorp), Plantsville, Conn. Patented May 1, 1860.
Weclaim the improved manufacture of carriage-shaft shackl blank, constructed ith the prolections, dd, arranged at or abou
at the junctions of the arms and body of the blauk, substantiall as and for the purpose spe cifted. d. for swaging the body andarme of the blank, substantially $\mathrm{m}_{\mathrm{m}}$ man or ass pecffled.

WTANTED-BY A COMPETENT MAN, A Situation togo South or Weat as Foreman of a Mash, Door and Blind Manufactory. Best of Refere
Post-oftce box 193, Poughkeepsie, N. Y.

THE AMERICAN CONFORMATEUR, IN vented and manfactured by the undersigned, has been used
or years by the princlpal and best haters in this City and Conn-
[14 $\left.2^{*}\right]$ SAMUEL CLARK, 20 West isth street.

A $N$ EXPERIENCED PATTERN MAKER


D ATENT CAR COUPLER-MAY BE COMbined with all the different Car Coapluras, descriptions of al
ich are wanted by SAMUEL J. WALY,

TNCRUSTATIONS of Steam Boilers prevented b



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Painter, Gilder, and Varnisher's Companion; Con:talnthg Rules and Regulations In everything relating to the numerous userul and Valuable Recipes; Tests for the Detection
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al used in the Art, and the beat Formine. Accorching to the
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THE GILLESPIE GOVERNOR COMPANY Of Boston are now mannfactaring
GILLESFIE'S PATENT HYDRA
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After testof flve years service, this Governor has iroved it-
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plishing for Water Power the same as a Cut-olf for Steam PowEvery machine guaranteed to give entire satigfaction to the
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ARRISON BOILER
MORE DESTRUCTION OF LIFE OR PROPERTY.

SLIEPIEN ROBBINS.
Mr. Joseph Hetisan Hall, 611 and 613 Sansom street, Philadelphia. Dear sirr:-We take great pleasure in testifying to the merits of
your Boler, as agenerator of steam, the contidence we have in its
safety, its economy of fuel, and also of space tor its erection safety, its economy of fuel, and also of space tor its erection. It
has now been in succesful operation more than a yeer, without
the necesity of any rcpairs, and our condence use. We Winall alwars anconsider it a privilege to exhibitand explain its merits to any who may wish to examine it.

GEO. Ẅ. SIMONS, BRO. \& CO. Phlladelphla, Aug. 9, 1866.
 had one of your loollcrs in constant use fortwcuty-two (22) months,
during which time it has supplied
 dmary soiler, and as to its economy in tues, you can best judge
dor yoursiff fom the following statement During the past year
it has burncd trom 50 to 60 tons Hea Coai, each wects averating


TAWS \& HARTMAN, 1237 North Frontstreet. Offce of the Salem Coal Company,
Philadelphla, Augast 16th, 1866. Joseph Farrison, Jr., Esig.:
Dear Sir - Aftcr having yoir cast-Iron Boiler in use at the Collle ry of thls onpany ior thore than a year, it gives me pleasure to
state that its operation has been very atisactory. Iu the 1 m
portant point opeconomy of fuel it is reported to be superior to
 structive explosin, it certandy has no equal anong all the var
ous forme of voilers that have come under my notice.
very truly
JNO. C. CRESSON, Prea't. Mr. Joseph Harrlson, Jr.: Gcrmantown, Aug. 16, 1866. Mr. Joseph Harrison, Jr.:
Dearsir $:$ About four months ago, we putin one of your "Har
lion Boil ers," and it gives nas much pleasure to be able to stat
 capacity, is about two dollars per day. In fact, we consider your
Boiler exo excllent in its scrvices, aside from tis safeness fom ex
plosion and its real conomy, that wecould no
 Vractical operation.
Veraly yours, etc.

New York, August 15th, 1866.


 pacity, we should most certainly use your Boiler more in prearence ea
any other. You areat liberty to use this, it it will le of any ser
vice to you. vice to You. YNTED S'IATES Wirytch Co., F. A. GILES, Pres't.
 Jos. Harrison, Jr., Esq., Philadelphla.
hiladelphia, Ang. 10, 1866.
 M MTCHELL Phlladelphia, Aug. 15th, 1866.
 pectations. We recommend them as sufe, very economical ex easily managed; they possess fully all the advantages you claim

Manufacturing Chenilsts, Clty Of CC 140 Sonth Wharves
 Mr. Joseph Harrison, Jr.:
Dear Sir:- We have had one of your Six-slab Bollers in use in our
paper Mil for five months. We consider it unequaled by any Paper Mill for five months. We consider it unequaled by any
other make or boller now in use. Withless than one.half the fuel
it produces more and drier steam than any boiler we ever ued.
 Very trily $\begin{gathered}\text { MCNELL } \\ \text { ir } \\ \text { irving }\end{gathered}$ \& rich.
Mercantile Printing Rooms, Frankilin Building, $\begin{gathered}\text { Philadelphia, lith Aug., } 1866, ~\end{gathered}$ Joseph Harrison. Jr, Esq. Dear Sir:- I am very much pleased with the Boller youputin
for me some nine orten months ago. It has heen in constant useno trouble -norepairs-no stopplng to clean ont, and steam can be "got up" in about twenty minutes. It requires less coal than the
cyllinder Boiler formerly yned here, although it in doing a great
deal more work. I che infull recommend

Yours very respectfully: $\begin{gathered}\text { JAMES B. RODGERS. }\end{gathered}$
Dally Evēning Bulletin, $\begin{aligned} & \text { Philadelphia, Sept. 1, } 1866 . ~ . ~ . ~\end{aligned}$ Joseph Harrison, Jr., Esq.: $\quad$ Dear Sir:-Wehave yne our 81 Horse-power Globular, Flve Slabbed Boilers, snown as the "Harr son Boller," In use now near-
tlve months and as a Bafo, rellable steam boller, and for economy
of fuel, we think it cannot be equaled
 thirty years experience n the manageorent Lof lige has had over
no hestitition and he has
ever worked. er worked. $\quad$ Very rerpectrally yours,
EVENING BULLETIN ASSOCIMTION, 607 Chestnut-st. Earle Stove Company,

## Joseph Hartison, Jr

Dear Sir i-Betore purchasing your boller, we examined with
much care the various kind now in use, determined to get "The
Buch are After velrht months' trial, our experilence conclusively
contirms the correctness of our judgment in making cholce
 tubular boilers, are now putting in one
our Engineer, Mr. Frederick Ed wards.

EARLE STOVE © © 0 ., Stidney SMITH, Supt.
Worcester, Mass., Sept. 3d, 1866.
After an experfence of twenty years in running the most approv
ed boilers snd engines in use hy Joseph Harrison, Jr., of Philailelphia, the most eco nomical fo frel, sa rest. quickest working, and one that will give the steadie
motion to the cngine wilh the least attention.
EREDERICK EDWARDS, Engineer, Worcester, Mass., 9th mo., 6th, 1866 Joseph Harison:
Dear Sir:-We recei ved your letter, and in ans wer will say, we
are hijhly gratifled with Botlers. The one we are using at the are highly gratiffed with Botlers. The one we are ussng at the
Earle htove Co. has been in operation, kince the frst of tie year
ln perfect order. We have just In perfect order. We have just got in operation the last scnt, at
our card Factory, and are rnnning it bevide a Tubular of ahout
the same capacty: Bo far we find a saving of about one-half by Truly yours, ${ }^{\text {T. K. EARLE \& CO. }}$
Alpine Mills, Howards, Center county, Pa., $\begin{gathered}\text { September 8, } 1866\end{gathered}$ Joseph Barrinon, Jr., Esq.:
Dear SIr -It gives me great pleasure to be able to $\operatorname{Inform}$ you
Dat your Boller comes that your Boller comes ap to the most ang uine expectations; $i_{1}$
fact, all that you can posabiy cla im for it : being economical, safe


 I sm, dea Sir, youra Prery remperfally TE. Agent.

## 










Superintendent's Offce, Camden and Atlantic Railroad, Joseph Harrison, Jr.: DearSir:- You aks our opinion of the safety, economy In fue
and general merit of the Harrison Boiler we have in use. Ideen a disastrons explosion can occur. It is a rapid generator of steam,
and requires less fuel than any boiler that has come under my
notice.

Very respectfully yours, G. W. N. CUstis, Supt.
Philadelphla, Aug. 10, 1866.
Joseph Harrison, Jr., Esq.:
Dear Sir:-Having charge (as adminlstratorg) of the Worsted
Milla of the late Mr. Samgel $\bar{Y}$ ew dall, at whlch the reccnt terr Mills of the late Mr. Samnel Yew dall, at which the r ocent terri lieving your Boller to be the only one absolutely free from dange
 two fiy horpe-puwer Boilers, to be used beparately or in conjunc-
lon. Yo complying quickly with the above order, you will very
mach ob lige,

Yours truly
N. R. SUPSLEE,
N.
Rock Island Manufacturing Company,
Charlotte, N. C., August 23, 1866. Mr. Joseph Harrison, Jr.:
Dear Sir:-Our experience with your Boller warrants us in bear
ing tegtimony to tes superiority over any other with which we are acqualnted. Ours is a 100 horse-power bother with which we are
of woolen machinery, snd furnisiles steam for our dyeing six seta tions, and for heating the mill. Our fuel lswo od, and we use tirree
corde per day to do all our work, whereas, we formerly used that
cilatity
 only a few months, it s true, but we preanme long enough to test


L4 4] Very respectrally yours, YOUNG, President
$Q^{\text {NONDAGA }}$ STEEL WORKS









J. T. PHILLIPS, PRACTICAL MILLWRIGIIT.


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 They are ta muceess.ulo oreration upon neariy to mills. OWENS, LANE, DYER\& CO., TIIE Manur'acturers of
$T$ O BUILDERS.-
T Patont Rolled Plate Gllas. for skylight for sile rery low by

Fis
$\mathrm{F}_{\text {in }}^{\text {OR SALeveal demand upon reasonatic terme. Caill }}$ apon

A "THUNDERBOLT."-HOWARD'S NEW Cirenars on recelpt of stamp.

WANTED TO PURCHASE - MACHINES

ERICSSON CALORIC ENGINES OF GREAT




UMBER CAN BE SEASONED IN FROM
 $14{ }^{1} 1$
F OR WOODWORTH PATENT PLANING


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IRON CASTINGS AND STEAM BOILERS.-



A CARD.-TO MECHANICS AND MANU-






PLANER WANTEE.-WANTED IMMEDI-



Improved Table-lear Supporter.
The engraving of this improved table-leaf sup- withe porter represents the device so plainly that but with fire-arms that the pressed balls are unreliable ittle explanation is necessary. It is designed to pressed is obviate the necessity for the stooping and lifting mold, and also that in time the pressed bullet ex required in spreading heavy table leaves. The pands until the metal regains its natural porosity support, A , is of metal, swiveled to the table by the pivot pieces, B and held in position by the spring, C. When the leaf is to be lowered, the cord, D , is pulled, and the spring is depressed by the lug, E, allowing the support to shut against the table frame. The simple raising of the leaf to a horizontal position allows the support to springout without the intervention of the hand.

Patented through the Scientific American Patent Agency July 3,1866 , by L. R. Cavender, Eurcka, Woodford county, Ill., to whom apply for rights to vend and manufacture.

## Improved Boom and Garf.

Tho object of the improvement here illustrated is to allow a worn jaw of a boom or gaff, to be conveniently removed and repaced by another, without injuring or removing any other portion. The jaws are bolted to the boom in the usual way, but at A, the straps terminate in hinges to allow of the removal of either jaw. The hoop, B, hooks into eyes at the ends of the straps. By driving out the bolts, C, the jaws, D, may be taken off and new pieces fitted. The advantages of this device will be scen by practical navigators and sea-


MANNING'S BOOM AND GAFF.
It was patented May 1, 1866, by Alfred Manning, Fair Haven, Conn., to whom all letters on the sub ject should be addressed.

## Gas Odors.

A director of a gas company recently wrote to the London Times that the excessive impurity of London gas has a beneficial effect in keeping away the cholera, and that none of the workmen in the metropol itan gas works have ever died of that disease, al though their duties expose them to great alternations of heat and cold, and they are notably intemperate. The director, however, is directly contradict ed by two different writers. Mr. Simcox Lea, in cumbent of one of the churches at. Bow, declares that no class of men in his neighborhood have suffered so heavily from the cholera as the class employed in the gas works, and the engineer of the Commercial Gas Company says that his company lost five workmen in the first seven days of the present attack.
If the director of the gas company is correct, it might be said "that the remedy is worse than the disease." It may be, however, that the gases which the workmen at a gas-making establishment are compelled to inhale will have some effect in keeping a way the causes of cholera; but it is a statement that requires corroboration. As yet there have been no circumstances of position or employment that have proved specifics against the cholera.

## Pressed and Cast Bullets.

Machines have been made, and, we believe, are still in use, to press leaden bullets; but we have
the end of the jaw being notched to receive the edge of the blade, B. Two guides, F, assist to retain the jaw in position.


The operation, after topping the cane, is to open the jaw by the thumb, then, as the thumb is removed, the jaw and blade grasp the cane and a downward motion of the hand strips it of its leaves, and the stalk is cut by drawing the knife toward the operator. The value of the device is seen at a glance.
Patented through the Scientific American Patent Agency July 3, 1866, by Robert Conarroe. For State and county rights address R. Conarroe \& Co., Camden, Preble county, Ohio.


INVENTORS, MANUFACTURERS.
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