
[This invention consists in the employment .or use of a horizontal rotating bowl, in connection with a rotary heater, arranged in a novel way to effect the desired end.J
2,791.- J. D. Potts, of Pittsburgh, Pa., for Improvement I claim, first, Fhe construction of the adjust
 thus bringing its ownand the tread of the opposite wheel. into thei
proper positions on the track, and placing the two wheels as nearl
simultaneously as possible on their proper rails
Fourth, I claiam the arrangeme nt where by the flanges of the whee
the
are guided by coming against the sides of the retrackers to the track
on which they are to be placed. are gulded by coming against the
on Which they are to be placed.
Fifth, claim the lip which, by
prevents the flange of the wheel from going betw een said raila and the
Sixth, I claim the arrangement whereby each of the two adiustable
tracks, constitung a set, is arranged so that it can be used for either
wheels between the rails, trakss, constituting a set, is arraned so that it can be used for eithe
wheels betwen the rails, as is required.
Seventh, I claim the devices whereby the incline and base are uni
2,792.-A. D. Puffer, of Somerville, Mass., for Improve-
ment in Soda Fountains : ment in Soda Fountains
I claim passing the pipes which
I claim passing the pipes which convey the soda and sirups to the
drasht cock, winin the trough, F, where they are cooled by the water
from the meling ice, as set forth. from the melingig ice, as set forth.
Second, The arrangement within a single draught stand of the com.
partments, BC and D, all in contiguity with the central cooler com. munncating with eacho ther by the air passages, h, and closed by tight
fiting plugs, $z$, whereb , while the sirups are k ept separate they are fitting plugs, z, whereby, while the sirups are k ept separate they
all ejected by the operation of the same force pump, as set forth. 2,793.-W. F. Quinby, of Stanton, Del., far Improved Apparatus for Navigating the Air :
I car.a.t. first, The employment, in combination with the boat-1ike
car, of ocillating wings, A d d, constructed and applied to operate sub.
tantially as and for the purpose set forth. Second, The combination of the wings, A d d, the screw propeller,
Stand the spiral.bladed wheels, I It ${ }^{\text {the }}$ whole operating together
substantially as and for the purpose specitied
2,794.-J. W. Shipman, of Springfeld Center, N. Y., for I claim the combination of the cam piece and socke
gles, $\bar{I} \mathrm{I}$, with the box, $F$, hinged rack bar, E , and bars, D
and described.
D , as shown
TThe object o
「The object of this invention is to obtain a prese of simple construc tion, which may be operaked manually and with great facility for compressing substances for baling.]
2,795 .-Philander
2,795.-Philander Shaw, of Boston, Mass., for Improve ment in Hot-Air Engines :
I claim, first, The combined arrangement in a caloric engine, oper-
ating substantially as shown and described, of the cyinders, pistons, reservoir and furnace. The cylinders and theiraccessories a acting to-
gether to rotate one shaft, and the cylind ry being located partly within
and partly without the reservoir which oontains a supply of comand partiy without the reservoir which oontains a supply of cons-
pressed and heated air, and a furnace which heatt the said supply,
which, with the gaseous products of combustion, passes through tite
engine.
second, The combination of the finished or upper part of the cylin.
der der, wili, its head, piston and trunk therewith connected, all operating
together, substantially as described, and with inlet and outle valres,
and suitable packing round the said trunk, to form an annular air and suitable packing round the said trunk, to form an annular air
pump.
Third, The chamber or groove around the cylinder, arranged and
operating substantially as specified, at or near where the lower pari of operating substa ntially as specified, at or near where the lower part of
the piston comes at the termmanation of its downarat moverant.
Fourth, The isolated oil trough withinthe chamber or groove around and withln the cylinder, for the specifted purpose. stantially as shown and described
Sixth, Admitting into the cylinder comparatively pure and cool air,
from a reservoir in which it is constantly maintained compressed, at from areservoir in which it is constantly maintained compressed, at
the place and times and by suitable valve gearing, substantially \&s and
for the purposes specified. 2,796.—Suspended.
2,797.-J. H. Shotwell, of Rahway, N. J., for Improved Air-heating Apparatus for Engine Furnaces
f, and water passages, g, combined, arranged and operating in the
manner and for the purposes set forit. manner and for the purposes set forth.
[This invention consists in a simple apparatus for heating air for sup. plying the fires of a steam boiler and furnace, and also for heating air
for warming bulldings, whereby great economy is effected in the for warming bix
2,798 .-Henry Sidle, of Dillsburg, Pa., for Improvementin Churns:
I claim the combination of the fillets or cleats, f, with the dashex
and $G$, when the whole are arranged and constructed to operate in tive
manner and for the purposes described.
2,7.99.-Joseph Stewart, of San Francisco, Cal., for Improvement in Maneuvering Heavy Guns
I cilitr the combination of the shaft,, , and rope or chain. D, with
the inclinedchassis, A, and gun carriage, B, substantially as described,
and for the purposes and uses as set forth.
2,800.-J. A. Strong, of Hyde Park, Vt., for Improved
800.-J. A. Strong, of
Self-Waiting Table :

I claim providing the self-waiting table, B G D, with a stationary
central part, C, adapted to support dishes, lamps, or the like. and sup.
por ted by a sindle or neck of less diameter serving to guide and re. central part, C, adapted to support dishes, lamps, or the like, and sup.
ported by appinde or neck of less diameter serving to gaide and re.
tain the annular revolving part, $D$, substantially as and for the pur-
pose set forth. pose set forth.
2,801.-Rollin White, of Davenport, Iowa, for Improvement in Cartridges
I claim, first, The oonstruction of the case of a cartridge of two or
more pieces or metal movable longitudinally relatively to each other,
substantially as and for the purpese spectitied. more piece or meta movable longit spectied.
substantially as and for the purpely to each other,
second, so constructing the cap or opellet, g, containing the percus.
son priming and applyig the same to the base of the cartridge that
it will be caused to operate as a valve to close the vent thereof by the
 around he vent in tae base of the cartridge cast, substantaly as ade.
scribed, for the purpose of a frm bearing, to support the said cap or
peflet against the blowof the hammer, and so insuring the explosion
2,802 .-J. Wh. Whittier, of Cambridge, Mass., for an Im-
provement in Fastening Window Blinds:
I claim the levers, B and D, the notched rest or support, A. and the
pate or cath, A, constrncted; combined and arranged as and for the
purposeabove set forth.
2,803.-A. J. Wiley, of South Attleborough, Mass., for an
Improvement in Making Joint Wire or Stock for Jew. Impr
I chim the making of joint wire or joint stock from one piece
metal, as described, and
I claim maring the said joint wire or joint stock, substantially in the
mefal, as described, and
I claim maining the said joint wire or joint stock, substantially in the
manner ahown and described.
2,804.-I. F. Williams, of New York City, for an Improved
2,804.-I. F. Williams, of New York City, for an Improved
Machine for Applying Flocks to Felt Knluber Goods:

equivalent devices, in the sifter case, as a metho smut collector. $G$, or of falling flock from amu ting the cloth, substantially as described. Third, I also claim the use of swinging arma or beaters, hrinin com.
bination with the revoling beaters, H , substantlally as described, and
for the purp oses set forth. Fourthi I also claim the use of the cloth tension roller, I, in combi-
nation with the carring roller, K, at the back end of the machine arranged on a line below the revolving beaters, while the roller, I, is
arranged on a line above the gumming table, so as to support the cloth
on these two points, and thus prevent the blows of the beaters drawing or jerking the cloth ov er the surface of the gumming table.
Fifth, also claim the combinatio of the finishing brush, $J$, with
the revolving beaters, substantially as described. 2,805.-S. D. Woodbury, of Lynn, Mass., for an Improvement in Elastic Carriage Wheels :
I claim rendering a carriage wheel elastic, by making the felly in
two concentric parts, F and f, and interposing bibelt, or la yer, of India
rubber, ot other elastic material, R, snbstantially as described, and for
he objects specified. 2,806.-G. F. Blake, of Medford, Mass., assignor to Him self and Peter Hubbell, of Charlestown, Mass., for an
Improvement in Machines for Pulverlzing and CleanImproveme
I clain, flirst, In combination with a machine for cleaning and pul.
verizing clay the reciprocating wipe or plunger, $W$, constructed and
operating substantially as described operating substantially as described.
Second, The revoling grate, constructed and operatingas described.
Third, The stationary fing Third, the stauonary fingers, $w$, constructed, arranged and operat
ing as set forth. 807.-S. E. Bolles, of Mattapoisett, Mass., assignor to
Himself and Thomas Ellis, of Rochester, Mass., for an Improvement in Carriage-Pole Supporter : I claim ms i mproved carriage -pole supporter, having its several parts
constructed an darranged in rel ation to each ot her, and so as to operate constructed andarranged in rel ation to each ot th.
together, substantially as shown and described.
2,808.-R.•G. Holmes, of Worcester, Mass., assignor to
Himself and Jonathan Luther, of the same place, for an Improved Clothes Washer and Wringer:
Iclaim the arrangement of the guides, J, with the rolier slides, $H$,
rollers, $G$, springs, I , and bar, K , as shown and described. [This invention relates to an improvement in that class of clothes ringers, in which elastic pressure rollers are employed for exhaust ng the willi Ma clothe s.
2,809.-William McCord, of Sing Sing, N. Y., and Edmund aforesaid, for an Improvement in Repeating Ordnance, afore
$\& 0$.
We claim; frist, Embracing and holding the cartridge chambers, 0 , opposite the gun barrel, B, by means of the oscillating and reciprocat-
ing jaws, $\mathrm{C}^{\prime}$
1, , constructed, combined, arranged and operating as deng jaws, $C^{\prime}$ D, constructed, combined, arranged and and segment of a
scribed.
Second, We claim the employment of the bars, $L$, and
ong wheil, $M$, on the oscillating jaw, $C^{\prime}$ and slide on its lower , urface, and aridge on its upper one, $\begin{aligned} & \text { for throwingoff from } \\ & \text { oaid jaw, } \\ & \text { the exploded cartridge chambers, and admitting loaded }\end{aligned}$ ones singly from the hopper, as set forth.
Third, We claim the peculiar form of
Third, We claim the peculiar form of the opening or space, D3, in
the reclprocating jaw pece, D,
which the necessection with the crank, E , by which the necessary stnppage is given the said jaw piece at the end of
every reciprocal throw of the same, as fully set forth
Fourth, We claim covering the nipple ends of the cartridge chambers
 opening immediately opposite the percussion cap on the nipple, sub-
stantially in the manner and for the purpose set forth. 2,810.-J. D. Owen, of Carlinville, Ill., àssignor to Him-
self, E. L. Owen and G. W. Barnett, for an self, E. L. Owen and G. W. Barnett, for an Improvement in Post-Hole Excavators
I claim the combination of the cyllinder, a, the tollower, D, and the
rod, $\mathbf{c}$, when constructed a nd arranged substantially as described for
che purpose of excavating hoies for posts
2,811.-R. H. Peck, of Wolcott, Vt., aspignor to Himself
and E. Gifford, of Cady's Falls, Vt., for an Improved Churn:

 cap, I, the
described.
2,812.-Francis A. Pratt, of Hartford, Conn., assignor to
G. S. Lincoln \& Co., of the same place, for an Improvement in stopping and Changing Motion :
c caim adapting the action cr ${ }^{\text {thil }}$ levers, $e^{\prime}$, to the rim of a pulley, D, in combination with the wedge
as and for the purpose described.
2813.-S. D. Tucker, of Troy, N. Y., assignor to C. S. Sill, of the same place, for an Improvement in Cording Guides for Sewing Machines :
I claime firt, The arrangement of the lower outside guide, F, with
the bending shell, A, core, $B$, and two inside guldes, $C$, as and for the purpose specified and shown.
Second, The arrangentent of the cord.guiding aperture, $e_{1}$, with the
bend ing shell, $A$, core, $B$, inside guides, $C$, aud lower outside guide, bending shell, A, core, B, inside guides, C D, aud lower outside guide,
F, as and for the purpose specified and shown. Third, The arrangement of the upper outside guides, $G$, whth the
bending shell, A, core, B a and two inside guides, CD, as and for the
purpose specified and shown. purpose specified and shown.
Fourth, The arrangement of the core.guide, e, with the bending
shell. A, core, B, inside guides, $C D$, and upper outside guide, $G$, as and for the purpose specified and shown.
Fifth, The arrangement of the two outside guides, F G, with the
folding shell, A, core, B, and two inside guides, C D, as and for the purpose specified and shown.
Sixth, The arrangement of the cord.guiding opening, e, with the
bending shell, $A$, core, $B$, two inside guides, C
D , and two outside
 RE-ISSUE.
J. S. Smith, of New York City, for an Improvement in Epaulets. Patented April 12, 1859
I claim the construction, arrangement and combination of epaulets,
substantially as described, the same consisting of the following three
elements combined First, A shell, or eppulet proper, with its usual appliance or appli-
ances for its attachmeet to the coat: Second, A bullion, or fringe, permanently attached or secured to a
frame, plate or what is termed sn adjuster, and frame, plate or what is termed sn adjuster. and
Third, A mechanical device from holding the said frame, plate or ad-
juster whithin the shell, substantially in the manner and for the purjuster whithin
poses set forth.

## TO OUR READERS.

Models are required to accompany applications for Patents under the new law, the same as formerly, except on Design Patents,
when two good drawings are all that is required to accompany the [petition, specification and oath, except the government fee.
invariable Rule.-It is an established rule of this office has expired.
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## $4 \operatorname{Hin}_{4}^{2}$

A. J. B., of Sebraska.-There are no very good work published on the distillation of coal oils. Balliere Bros., of this city have published a worko coal ols, which is the best we know of W. H. L., of N. Y.-The American Railway Times is published in Boston. 'The new steamer Constitution is now in the
transport service of the governmeut, and, we presnme, will not go transport service of the governmeut, and, we presume, will not go to California for some time.
T. R. B., of Mass.-" Nicholson's Cyclopedia" is a good work on mechanics and natural philosophy. Ure's Dictionary is a good work on the mechanic arts.
C. H. M., of N. Y.-In relation to joining the Cavendish Society, consult eithe
440 Broadway, N. Y.
C. P. W., of N. J.-The bore of a 6 -pounder cannon is 3.688 inches. Dahlgren's shell guns are made of 8,9 , and 11 inch bore. Parrott makes his guns of various sizes.
D. B. D., of Ohio.-In reference to the study of mathematics we cannot give youany advice, but would refer you to some one of the many competent teachers in your city
A. W. H., of C. W.-We do not know where machinery for making wooden bowls can be obtained. We presume that some one who sees this notice will advertise such machinery in this journal.
S. M., of Pa- We are unable to give you any information
S. B., of Pa.-The suggestion you make in reference to the use of shells filled with noxiousgases to operate against forts; is nota new one. This project has been frequently broached-but if you can accomplish anything practically valuable, your best plan will be to lay it before your member of Congress, and obtain his aid in getting you before the proper Department. We cannot afford you
O. P. A., of N. H.-For information about brass belting E. H., of 一.-Collodion is a solution of gun cotton in a mixture of alcohol and ether. It is composed of the four organic elements, oxygen, hydrogen, nitrogen and carbon, but as it is not a definite chemical compound, the proportions vary. The manipula. tions are so delicate, and the conditions so essential, that practical instruction is necessary to enable one to make it.
A. E. F., of Pa.-We do not approve of your plan for the general government to take charge of the subject of education. As a general rule the $S$ tate governments are better adapted for the conduct of local affairs than the Federalgovernment, and it would be impossible for the latter to compel the former to maintain common
schools. The laws on this subject in the Northern States could not be enforced without the sanction of public opinion. You might as well pass a law prescribing to people what they should eat
. R. P., of Ohio.-We have received no information respecting experiments with rifled howitzers. Gun cotton has been used for exploding shells, and we believe it is very suitable for this
W. A. S., of Ohio.-There are many manufacturers of acetic acidf rom low wines in New York and its vicinity. Xou will find the process of making it described and illustrated on page 247, Vol. 4 (new series) Scientific American.
M. R. C., of Mass.-Sheet tin has never been manufactured in America. All that we use is imported from England. You will find the process described on page 116 of our present volume.
U. B., of Pa .-You have indeed made the improvement wherebyguncarriages may be constructed to suit the tracks of rail
ways and run upon them. It will be very difficult, however, to ob tain a change in the construction of gun carriages, whereby their ost will ber C. I., of Mass.-We could not recommend rotten stone to be applied to the teeth daily to keep them clean ; once a week would be sufficient, as its frequent applicatian will tend to injure their enamel. T
R. G. B., of Pa.-A cannon constructed with successive charge chambers to give the shot successive implises as it passes along the barrel, is not new. We do not know whether its range is much greater than that of commonguns. Mr. Lyman of this city, is the inventor of such a gun.
W. A., of Wis.-Who told you that a ball shot from a riffe held horizontally ascended above the level of the rifle? The eleration of a ball in its fight is just in proportion to the angle of the rifle.
H. B. S., of N. B.-The bright surface resembling enamel on English cutlery, is produced by steel burnishing tools, not pow-Query.-A correspondent makes the following inquiry, "I wish to know what it is that breaks a salt pan when strong make on the bottom ?
Composition for Leather Belts.-A correspondent says, "Take neat's foot oil and add to it about one-third of its bulk of com. mon resin, and stirit over a moderately warm fire until the resin is dissolved. I have found this composition very superior tor lubricating the belts of machines. Several good coats of it should be applied at first"

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.
. of III., $\$ 30$;

Specifications and drawings and models belonging to parties with the following initials have been forwarded to the Pat ent Oflice from Nov. 2J, to Wednesday, Dec. 4, 1861 :-
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NEW YORK OBSERVER FOR 1862.-IN ASKING the aid of all who may desire to extend the circuiation of the Neio Fork Observer, it is proper for us tostatedistinctly the position
occupies with reterence to the present condition of public affairs, in occuples with retere
Having always maintained the duty of good citzens in all parts of he land to stand by the Constitution, in its spirit and letter, when hat Constitution was assailed and its overthrow attempted, we accord ingly at once gave a cordial support to the Governmentin its patriotic endeavor to assert its lawful authority over the whole land. Believing secession to be rebelion, and when attempted, as in this case, withou equate reasons, to be the highest crime, we hold

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2. That the Government, as the ordinance of God, must put down eebellion and uphold the Constitution in its integrity.
3. That every citizen is bound to support the Government und
which he lives, in the struggle to reêstablish its authority over the whole country.
4. That the Constitution of the United States is the supreme law of
the Government as well as of the people; that the war should be prosecuted solely to uphold the Constitution and in strict subordination 0 its provisions: and $t$ he war should be arrested, and peace concluded
just so soon as the peop le now in revolt whll lay down their arms and ust so soon as the people now in revolt whll hay d.
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