the backs or inner sides of the rollers at top or bottom, in such a manner that any strain brought to bear on the outside of the rollers is sustained by said flanges and the gudgeons of the rollers are entirely relieved and not liable to get injured by shot or shell which may strike said rollers. The invention consists, finally, in the employment of india-rubber or other suitable packing insertel into the faces and backs of the rollers, in such a manner that said rollers will close perfectly water-tight and prevent the water from entering the ports or embrasures. W. S. Auchincloss, of New York city, is the inventor of this improvement, which has also been secured by foreign patents.

Valve Gear of Steam Engines.-This invention relates more especially to valve gear which is permanently and positively connected both with the induction or cut-off valves of the same and with a regulator, but which is yet variable under the control of the regulator to regulate the velocity of the engine by means of those valves. The principal object of the invention is so to connect the regulator with the valve gear, that a slight force only need be exerted by the regulator to materially alter the admission of steam to the cylinder, and by that means make the cut-off sensitive to slight variations in speed ; and to this end it consists in a novel system of right and lett-hand screws, racks and pinions, combined with the regula tor and with the levers or their equivalents, with which the valves are connected, whereby friction rollers or other devices attached to the said levers are shifted upon the varying face or between the varying faces of a cam by which the operation of the valve is produced, and thereby obtain the necessary variations in the operation of the valves to regulate the velocity of the engine. Tisdale Carpenter, of Providence, R. I., is the inventor of this improvement.


ISSUED FROM THE UNITED STATES PATENT-OFFICE For the week ending december 15, 1863

13 Pamphlets containing the Patent Laws and full particulars of the mode of applying for Letters Patent specifying size of model required, and much other in formation useful to inventors, may be had gratis by ad ressing MUNN \& CO., Publishers of the Scientific Mmerican, New York.
,802.-Pr nting Press.-John F. Allen \& R. W. Mc Gowan, New York City :
cating forme bed, H, Hall arranged to operate in in the with the recipro-
manner substan [This invention relates to a new and improved printing press for printing with a plurality of colors simultaneously or at one operation, the sheet to be thus printed upon being required to pass but once hrough the press. The invention consists in the employment or use of a rotary cylinder, in combination with a series of cylindrical form or type-cylinders, and a reciprocating form or type bed; all arranged oo efiect the desired end.
0,893.-Operating Gun Carriage.-S. J. Ashley, San Francisco, Cal.:
I claim the gearing together of the front and back traverse wheels
by means of a system or gearing in such manner that the power is
applied to produce the notion of both sets of whels eously by power applied through a crank shaft or its, equivalent
at or nearthe rear end of the chaskis. or in such position as may be
most convenient, substantially as and for the pu rposc herein spectled 40,894.-Apparatus for Amalgamating Precious Metals.I claim the emplogment or use of one or more reciprocating frames,
H, providel with arms or leaders, f , having bars, $h$, or their equiva-
Het H, providel with arms or leaders, f, having bars, h, or their equiva-
lents attached to form elevatos, in connection with the tray or box,
A, all arranged to operate in the manner substantiall y as and for the A, all arranged to operate
purpose herein set forth.
[This invention consists in the emplopment or use of one or more reciprocating frames composed of a series of bars constructed in such the quicksilver and "tiailings" that both the small and large parti the quicksilver and "tailings," that both the small and large partithe quicksilver, and a thorough amalgamation offected.]
40,895.-Port Closer for Vessels of War.-Wm. Stuart Auchincloss, New York City
I claim tirst, The employment or use for a port hole closer of two ronlers, AAA, each being made to rotate ndependently of the other
and provided with a cavity, b, as described, so that by turning the
rollers to the proper rollers to the proper position, an opening is obtained which allows of
giving to the gunany desired elevation, or of training the same to an angle of 45. or more, substantially as set fortb. with the rollers, A A,
second, The combloation of the fanges, E,
constructed and operating substantially as and for the purpose herein
shown and described.

40,896.-Paddle Wheel.-E. H. Bailey, Philadelphia, Pa.: I claim the two sets of inclined floats, D and $\mathrm{D}^{\prime}$ and E and $\mathrm{E}^{\prime}$, in
combination with the annular plates, $G$ and
loats and the whole of the parts are constructed and arranged as set foats and the whole of the parts
forth for the purpose specifled.
40,897.-Corrugating Machine.-John G. Baker, Washigton, D. C. assignor ta Samuel S. Sely, New York City. Ante-dated Dec. 6, 1863 :
I claim, Arst, Corrugating sheet metals, \&c., between alternating
die.jaws (or theirequivalents), in such a manner as to form but one
bend or angle in the sheet at and bend or angle in the sheet at a time.
Second The manner as to form but one hird, The dogs, I, and $J$, constructed and operating substantially
described. Fourth, Feeding the sheet of metal by its own gravity in combina-
tion with the corrugating jaws (or their equivalents), substantially as
described Fifth, The shoes, 0 , constructed and operating substantially as de-
scribed or the eparpose of making either waved or ridged corruga-40,898.-Signal Switch for Rail

Mexico, N. Y. claim the arrangement of the segment rack, $F$, pinion, $I$, shaft, $Q$,
tern, J, and box, $K$, with the ewitch lever, C , and frame, D , in the

This invention consists in a noplication of a lantern or lamp the lever of a switch, as hereinafter shown and described, whereby the lantern or lamp will be turned automatically as the switch is moved or adjusted, and different colored lights exposed to show the position of the switch during the night.]
40,899.-Machine for bending Angle Iron.-David Bell, Buffalo, N. Y.:
I claim shaping angle cars for iron ship building by means of the
table, A, (including the adjustable pins Gh, and sliding pressure bar
B, and jaws, C, operated by a screw, eubstantially as described. 40,900.-Corn Planter.-Wm. F. Blandin, Macomb, Ill.: Second, I claim the combination and arrangement of the crank second, 1 clain the combination and arrangement of the crank
shaft, $\mathbf{O}$, provied with the arms, , the ever, $b$, and connecting rod,
m , for the purposes shown and sot forth. M, for the purposes shown and setrorth. tube and drill point, e, pro-
Thided Tliaim the removable combined thine pin in combination with the hopper of a corn plan-
vided wit

 40,001.-Gaiter Boot Protector.-Frank M. Blodgett, Boston, Mass.:
Iiclaim the combination of the anklet or leglet, A, and ${ }^{\text {the }}$, frontlet anspecifed.
I also claim the combination and arrangement of the leg band or back piece, $\mathbf{C}$, with the frontlet gaiter, $\mathbf{B}$.
I alles, claim, the the frontlet, $\mathbf{B}$, and
the back band, $\mathbf{C}$ the whotion of the the ang made, arranged and applied toas specitled.
40,902.-Gate.-Franklin F. Blood, Janesville, Wis. I claim a arate balanced by a weight, B, or by a box cased up on the
standards,
with a friction inlled with sand or other substance, Fhlen combined with a friction roller, b, and hanging slives, $D$, and used for the pur 40,903.-Washing Machine.-I. J. K. Boyce, Napoleon, Ohio:
Iclaim the inwardly? inchined presser board, $B_{2}$ attached to curved
roda, C, which extend through slots in the top of the box, A, and are
 operating
scribed.
(This invention relates tolan improvement in that class of washing machines, in which the clothes are exposed to the action of a recip rocating pressure by'placing them between said presser and the end of the box or tub.]
40,904.-Protecting Lead Pipe against the action of I claim the production of sanitary Brooklyn, N. Y.: Fah, of a strogs solution of a sulphide of an alkalit to the inside of
lead pipe or lead cisterns or leaden iessels for the purpose of forming
a sulphide of lead, so that water will afterward not act on the pipe or vessel a ad cannot cot cet contaminatiled afterward not act on the pipe
maining standing in such pipe or vessel. 40,905.-Valve Gear for Steam Engines.-Tisdale Car-
penter, Providence, R. I.:
claim the employment in a steam or other engine of one or mor
 ating mechanism, and co-operating substantially as described to pro-
duce the necessary variations in the operation of the valves for the eguar ore.
I claim first, The plunger, J, connected to the scale, beam, $E_{\text {, }}$ and
immersed in quicksilver or other fuid or semt fuld contained in a
 platc, $M$, connected to the beam, E , as shown in connection with one
or two stationary index plates, $O$ O, arranged substantially as set

40,907.-Corset.-L. L. Chapman, Camden, N. J.: I clain in ladies corsets, constructed to have the breast puffs, elasthe employment of the short, , straizht clas asing siteel sprind set arranged
in front so as to be entirely below and free from the putf, B B, as herein described and set forth, in combination with the single cord
lacing, D. in the back of the corset and adjustable in front as de-
scribed, the said springs and 1 acing oper anding together in the said
sloulder brace corset combinat ion, substantially in the manner de-shoulder-brace corset combination,
scribed for the purposes'specifled.
40,908.-Evaporator for Saccharine Liquids.-J. C. Chesney, Abingdon, Ill.:
I claim the employment or use of a furnace, A, with two or more
fre-places, $B C$, one above the other, in combination with a vertical
 or the purpose substa
40,909.-Cultivator.-Marcus Milton Clark, Industry, Ill.: F, in combin the vertically-adjustable stirrups, f, and hinged plow be amms can be turned in either direction by a hand lever, w; D al constructed
and operating in the manner and for the purpose herein shown and
described. [This inve
Ors whic the which straddle one row and paser the growing plants, and the principal object of the improvement is to enable the driver to govern the motion of the cultivator so that
sinuosities of the rows with care and facility.]
40,910.-Hauling or Driving Chains or Belts.-Wm. Clissold, Dudbridge, England
I claim the compound links, a, with the wood-flling pieces, $d$ d, in
combination with the coupling plates, b , or their equivalent, sub
stantially as described
40,911.-Clasp for Harness Tugs.-L.D. Cowles, Armada, Mich.:
plate, B, and strap, $A$, and the plate or lever, $D$, one or morre, provided with the clamps formed of the prajections, $b$ b, and roll
their equivalents, all arranged to operate as herein set forth.
The object of this invention is to obtain a simple and efficient de vice which will supersede the ordinary tug buckie, and is an im-
were granted to this invention, bearing date Feb. 17, 1863. This in lever ansists in the employment or use of a box provided with a 40,912.-Clasp for Harness Tugs.-L. D. Cowles, Armada, Mich.:
claim the box composed of two parts, A B, connected together
y the ping, e, on the part, B, fitted in eccentric slots, f f, in plates,
C, pivoted to the prta , substantially as shown to form a new CC, pivoted to the part, A, substantially as sho
and improved clasp for harness tugs as bet forth.
[This invention relates to a new and improved clasp to supersede the ordinary tug buckle for harness, and it consists in the employment or use of what may be termed a box formed of two parts connected together by means of pins and eccentrics arranged in such a manner that the two parts may be opened and closed with the greatest facile, and one stap traly socured in the box and conceted the "he strap frst named readily released so as let out " when necesary
40,913.-Apparatus for lifting and removing Wheel Tires.-George W. Creamer, Fillmore, Pa.:
I:claim, first, The tongs, A A A a checks, a3, rod, C, arm, $D$ han
e E, and bar or ear, F , employed in the manner described to ele vate and convey wheel tire.
Second, In combination with two pairs of tongs, I claim the rigid md, B, operating as described to adapt the tongs to act in the rigid
conjunc-
tion, and elther grasp or rele ase the tire. (This is a very useful invention for the purpose of taking the tire fom the fre in which it is heated and seting it upon the whee without exposing the operators to heat or smoke, or compellin em to sup
40,914.-Washing Fluid.-Parmer R. Cross, Lowell, Ind. 1 ciaim the washing fuid, composed of the herein described in
gredients, in the proportionsi epecifed, substantially as and for the
purposes set forth and deseribed
40,915.-Cultivator.-John R. Davis, Bloomfield, Iowa:
 constructed, arranged, and operating as specifled, so that either or
botht the frames maap be readily raised by the feet of the drver and
retained by hooking the treadles into the staples, of as explained. [By means of this invention the plow on both sides may be raised
either separately or simultaneously by the feet of the operator, and tained at any desired height.
40,916.-Skate Fastening.-C. T. Day, Newark, N. J.: I claim the bars, F F I I, constructed arranged, and applied to the
skate, substantially as sho wn, so as to be capable of being moved in
a longlitudinal and lateral direction and clamp or grasp the sole of the boot or shoe, in the manner and for the purpose specified. barg,
further claim the screw rod, $\mathbf{J}$, and nut, $\mathbf{H}$, applied to the FII, to operate in the manner and for the purpose set forth. [This invention relates to a new and improved mode of attaching the skate to the boot or shoe and it consists in the employment of use of clamps arranged and applied to the state in such a manner hiven a combined lateral and longitudinal adjusting movement and frmb or the nd army securg her the then consists in operating the clamps by means or a screw-rod and nut, arranged will in ther in ther the boot or shoe.]
40,917.-Machine for Polishing Rice.-Silas Thodson,
Bloomsburg, P9. I claim the employment of the rings, as, in combination with the
creen, H , aza the bars, $i$, in the manner and for the purpose herein shown and described ith the inclined adjustable rotating polisher, In combination with the inclined adjus table rotating polisher, I,
I claim giving an independent rotary motion to the inclined screen,
H, as and for the purpose herein shown and described. 40,918.- Hair Dye.-Dominique Duprat, New York City I claim a hair dye composed of the ingredients hereln specified and
mixed together, substantially in the manner and about in the pro
portion set forth. portion set forth
(This invention consists in a composition of pomade or fat scented with some perfume, nitrate of silver and gallic acid mixed together to hairs of all shades.]
0,919.-Operating Gun Carriage.-John Ericsson, New York City : I claim, frst, The employment for controlling and checking the
recoil of a
oand carriage and for holding the same stationary whil recoil of a gun carriage and for holding the same stationary while
loading, and at other times, of a self-acting friction brabe or clutch
detached from the carriage but geared therewith, substantially as herein described.
Second. The employment for the purpose of running the gun-car-
riage out or in, of the same system of gearing by whicl the gun-car-
 gun is worked, and so arranging a movable stop to act on teeth proof the stop the brake or clutch is brought either to a condition to
check the recoil or prevent the movenent of the carriage or to a
condition to permit it to run freely, substantially as herein specifled. 40,920.-Artificial Fuel.-Thomas M. Fell, Brooklyn, e-dated Dec. 4, 1863

## I claim the within-described artificial fuel manuf thracite and asphaltums in the manner described.

40,921.-Skate.-Martin Feurstein, Williamsburg N. Y.: b c, as and for the purpose described two or more hinged dogs, a Also inserting the dog or dogs in slo

TThe object or thisinvention is to enable unpracticed skaters to strike out with their slates withoutthe liability of slipping backwards or in a lateral direction, whereby they are caused to loose their balance and to fall.]
40,922.-Forage Ration.-Matthew Fletcher, Louisville, claim the forage ration composed of proper relative proportions of grain and rough food when the former is secured and preserved stantially in the manner and for the purpose described.
40,923 .-Clothes and Hat Hook.-George B. Fowler, New York City :
I claim the claw, a a and brad or brads, b, in combination with the
bracket, B, of a hook, A, censtructed and operating in the manner
40,924.-Compound Oil for Burning and Lubricating.
R. A. Gilman, Woodland, Wis. Ante-dated Nov. 21 , 1863:
mineral hydro-carbon olls, such aspetroleum, coal oil, \&c., by mixing mineral hyaro-carbon ois, such aspetroleum, coal oil, sc., by mixing
them together in about tie proportion herein specited and heationg
them to temperature of $195{ }^{\circ}$ Fah. (more or less), with or witiout
the addition of time and sulpheo them to a temperature of ${ }^{190^{\circ} \text { Fah. (more or less), with or witbout }}$ the addition of lime and sulphate $\alpha$ zinc, for the purpose described. [This invention consists in heating animal fats, such as tallow, lard, dc., together with mineral hydro-carbon oils, snch as petroleum, coal mal fats unite and combine with the mineral oils and the mixtur becomesliquifed and suitablefor lubricating and burning purposes.

40,925.-Manufacture o f Gas.-W. H. Gwynne, New York Clity I claim the employment or u e of the cupola, A, su rrounded by
the annular space, a, in combination with the exhauster, H, applied
and operating subtatantially in the manner and for the purpose berein and operating substantially
shown and described.
Also the witbin-described shown and witcrined.
Also the within-escribed process of produc ng illuminating gas
by exhausting the products of combustion from a cupalo or its
equivalent through a quantity of incandescent material, substantialiy as specified.
40,926.-Fruit Tsudder.-James Hannan, Lyon, Mich.: I claim, first, Connectiny two ladders togecter in such a manner
by means of a pin or ofrrwise that the two shall form a double
self-suastaining ladder contlo

 Fourth, I claim the table attached to the lower portions of the
frame, GG, and the manner of securing the same to the lader.
Fifth, I claim the adjustable platform upon the top of the table,
 forth.
Eighth, $\mathbf{I}$ claim the windlass, M, in combination with the elevated
ladder, rope, $\mathbf{K}^{\prime}$, and basket, L, When arranged and operating sub-
stantially as and for thepurnose specified. stantially as and for theparfose specified.
Nsthth, I cla im the piantorm, N , when arranged as and for the pur-
pose set forth.
40, 927.-Pump.-Thomas Hansbrow, Sacramento, Cal.: plates, a, with the valve chest, A, and air chamber, B, in the man ner herein shown and described.
[This invention relates to an improvement in a pump for which
Letters Patent were granted to this inventor, Letters Patent were granted to this inventor, bearing date Feb. 5 1861. The within-described invention relates to an improved mode of frm and durable connection of the above-named parts is obtained and one which will admit of being manipulated with the greatest fa cility, in order to secure the air-chamber to the valve chest and to detach it therefrom.]
40,928.-Car Replacer for Rallroads.-Robert Harper,
Chelsea, Mass.:
I claim the car restorer or combination of the arched plate, A, the
descendmg plane or part, ${ }^{\prime}$ and the two flanches, a b, projecting
from opposite sides of the said plate, A substontiallo 40,929.-Steam Boller.- R. S. Harris, Dubuque Iowa: tubes, a a, the water jacket, B, the the shell, A, Allled to the top with
terruptedily round the shell, and the terruptedil round the shell, and the drum, F, containing both stean and water
are both 11
set forth.
[Thisinvention consists in a novel arrangement of tubes, flues and water jacket, in connection with the cylindrical body or main portion
of the boiler, and with an upper water and steam drum whereby a boiler is obtained which is very safe, durable and economical of fuel 40,930.-Hay and Cotton Press.-G. W. Hart, Aurora Ind.:
 40,931.-Pantaloon Strap.-Samuel Heller, New York City

\{This invention consists in a strap with \& centerpiece ofleather, two strips of ahirred india-rubber and two end pieces of leather, so that all the advantages of the leather are preserved and sufficient elasticity is imparted to the straps to prevent the pantaloons from eing exposed to an injurious strain.]
40,932.-Apparatus for Concentrating ore.-James Hep
burn, Mokelumne Hill, Cal.: burn,, , Exposing

arranged in relation to the aperture ore ar mortures receiving boxes, $\mathbf{B}$,
the botuminec, A, and of
tantiand in the manner and for the purpose sub-
(Thisinvention relates to an improvement in the manner of aluic ing or separating the gages and rock or earthy matter from the ores of valuable metals after the same have been reduced to powder by perfect separation of the ore from the rock in which it was dissemi ated.]
40,933.-Mode of treating Fish Water for use in Dyeing, \&c.-J. B. Herreshoff, \&ristol, R. I.:


(This invention consists in the employment or use of the aqueou quor pressed from Menhaden fish during the process of extracting il therefrom for precipitating tarrates in the dye tub or as an agen for dyeing.]
40,934.-Sugar Evaporator.-James High, Walnut Fork Iowa:
Iclaim the combination with the finishing pans, $D$ D', mounted on
wheels attached to their sides as herein shown and described of the guard, , supported on either the stationary or moving pans and pro-
jecting over the s pace between the two in the manner and for the
purposes specifide urposes specified.
(This invention and rear end of the flue in combination with two wheeled pan and with a stationary heating pan,in such manner that the juice arte veniently ladled over into either of the wheeled pans, and exposed to moderate heatover the rear end of the pan for the purpose of finish ng the sirup, and that one of the said wheeled pans can be emptied while the contents of the other are being finished.]

40,935.-Cultivator Teeth.-H. T. Hooker, Skeneateles, N. Y.: standard, A, provided with the reversible share, $\mathbf{C}$, de
achable mold -boards, $\mathbf{B}$ B, ${ }^{\prime}$, and pulverizer, $\mathbf{D}$, the whole constructed arranged and operating in the manner and for the purpose herein se
40,936.-Clothes' Airers.-Lorenzo Horn, Wolfboro' New

40,937.-Fanning M1ll.-Henry Kelly and William Frank-
First, we claim the shoe vibrating on a single central vertical pivot,
B, or its equivalent as and for the purposes described.

Second, The strap, $\mathbf{H}$, orits equivalent as and for the purposes des
cribed. 40,938.-Mill for Crushing Sugar Cane.-G. H. Laub, Macomb, Ill.:
T claim the pendant, J, attached to the sweep, $G$, and provided with
the vertical slot e, when used in connection with the stationary cy
inder, $\mathbf{C}$, and roler, $\mathbf{H}$, as and for the purpose set forth. [This, and roller, $\mathbf{H}$, as and for the purpose set forth
(This invention consists in the employment or use of a stationary cylinder in connection with a sweep having a pressure roller attached per end whiche being provided with a coor at the upper whel of the up er end which works m a sunken gear at the upper end of the sta nular trough at its stanionary cylnder being provided with an an seat attached to it, and also a cane-guide and cane-rack, all being ar ranged in such a manner as to form an economical, durable and effi cient $m l l$ for the purpose specified.]
40,939.-Faucet.-John Leitch, Buffalo, N. Y.
I claim the combmation and arrangement of the abutment, $D$,
valve, , diaphragm, $\mathbf{H}$, and operating screw, $G$, substantially as des 40,940.-Stump Extractor.-Hiram Lemm, Leonidas, Mich.:
claim the lever, $F$, with the pawls, $G$ G, attached in combination
th the ratchet, $\mathbf{K}$, and drum, $\mathbf{I}$, with chain $J$, attached, all arranged orth.
Ifurther claim the , ini
tion with the chain, N , all arranged as and forthe purpose specified. [This invention consists in the employment or use of a lever proframe, in combination with a ratchet and drum fitted in the mounted frame, and all arranged to operate in such a manner and in connection with a chain so as to admit of stumps being extracted and heavy bodies elevated and transported from place to place with the greatest facility. The invention also consists in a simple and novel means employed for holding the mounted frame in proper position when the machine is in operation.]
40,941.-Weather-strip.-H. Ogborn, Green's Fork, Ind. Ante-dated Dec. 6, 1863 :
D , and upriprit H , the whole being with the curved piece, c , piece,
40,942.- manner and for the purposes set forth. W. Patterson
0,942.-Grain Cleaner and Separator.-J. W. Patt
Monticello, Minn. Ante-dated Dec. 12,1863 :
B, Where said arms are used in connection with the beater, $G$, perfo
Sated cylinder, $\mathbf{H}$, as and for the purpose specified.
Second, The bar, , attached to the upper part of the shoe, $N$, to pre
vent the choking or clogging of the hopper as specified.
[The object of this invention is to obtain a machine of simple con struction which will effectually separate oats from wheat, and also parate smut and all other impurities from the grain.
0, 943.-Sidde-saddle Tree.-Tyree Pogue, Madison, Ind. anner hereinbefore specified and represented.
[By thisinventiona seat of improved form is produced without any building up process.]
0,944. - Wheel Vehicle. - C. J. Preston, Harlem, Ill.:
 tantially as herein shown and described
[This invention consists in a double truck frame the fore part of which is soarrangedthat the cross timber behind forms the slider the center of each of the oblique cross timbers or hounds and th ransom ther of the ruck supported br latitudinal res, thers hat in the rear to the bolster by means of recesses in such a manne that said transoms are allowed to spring down until thes strike the centerpiece or bolster and thereby the required spring for the truct ined.
40,945.-Pump.-G. H. Reynolds and G. H. Babcock Mystic Bridge, Conn.:
First, We claim the two induction valves and the two educting

 Ahe said valves and their seats may be removed from the chambe Third, Wealso claim the employment of thecam, I, in combination
with the hinged bail, , and the bonnet, $E$, substantially as and for the
40,946.-Curry-comb.-J. W. Rockwell, Ridgefield,
claim a curry-comb having a series of metal bars, A, applied to a [This invention consists in a curry-comb having its metallic bars or eeth attached to a flexible back made of leather or other suitable aterial in such a manner that a light and durable;comb is produced hich will readily adapt itself to the sinuosities of the body of a hor or other animal on whom it maybe used.]
40,947.-Safe.-Isaiah Rogers, Washington, D. C.:
I claim, first, A burglar-proof sale having the space between its
walls provided with unifi arranged in such a manner that they may
turn and still be retained in proper position, for the purpose herein
set forth. The emplosment or use of balls of diflerent diameters sub
Second, Tantially as and for the purpose specified.
Thir, The steel pate, D, secured to the outer face or side of the
wall, Bhen said por whe is used in combination with the balls as
nd for the purpose set forth. 40,948.-Fastening for Tobaoco Presses or Cases.-C. E. I claimmes, Charlestown, Mass.
I claim my improved segment band fastening, as composed of the
screw bolt, b, the nut, th adijutable washers, c c , their concave seats, de d, and the cam or eccentric, g, they being made, arranged,
together and applise to the band substantially in manner and so as
to operate as described. 40,949.-Pessary.-H. V. Scattergood, Albany, N. Y.: I claim the construction of a pessary in the form of a light selfadjustable frame, constructed substantiall as described, to be ap
pled externaly to the uterus to raise and support the same in the 40,950. Apparatus for Washing Ores.-Philip Soheuerman, Hancock, Mich.:
Man, Fiancock, Mich.:
I, claim, fith the plunge combination of the shaft, F, cam, $\mathbf{E}$, and yoke, ore washer, substantially as described. Jecond, The two separate reservoirs, A A, provided with screens,
J, in connection with a single plunger, C, arranged substantially
as shown to gimmit of the plunger forcing the water simultaneously
 plunger, C, and reservoirs, A A, operating as a a giade et the said
punger, and a partition betwe an the reservoirs, all as herein shown
and descrlbed. Fourth, The tubes, $K$, provided with openings, $b$, in their under
sides in close proximity fo the screens, and communicating with chambers, L, at the end of the screens opposite to the ende on whith
the ore or pulp is admitted, substantialty as and for the purpose set forth.
ore-washers in which water is forced up through, screens on which the ore or pulp is discharged from the stamp mill. The object of th havention be more compact than those previously devised, more simple in it 40,951.-Machine for making Sheet-metal Eare Troughs
-S. A. Scofield and Erastus Churchill, Morenci,

Mich. A. Scofield and Erastus Churchill, Morenci Mich.
We claim first, A stationary supporting bed, A, with a stationary
circular former ",
entirely above tructed on one of its edges, so as to stand entirely above the base of the bed, in combination with a recess, a
of the form and located substantiall as descr bed.
Second, The combination of the stationary bed, A, circular former B, and the recess, a, with the vibrating head, $\mathbf{C}$, D , substantially a
and for the purpose described.
Third, The wedge-shaped clamping piece Third, The wedge-shaped clamping piece, $D$, between the circular
frmer, Band the shoulder of the head,
arranged sutatantially in the manner and for the on constructed and
murpose described arraugrt, So applying a wedge-sbaped clam ping piece, D, to a head,
Fourtb,
c, that manypulating a lever the pressure of the wede may be
maintained and also the vibration of the head produced, substan maintained and also
tially as described.
Fifth, TTe beat a
lamp, D, and recessed, bed and in combermation with a swinging head B a, substantially as and
for the purpose described. 40,952.-Bobbin.-C. A. Shaw, Biddeford, Maine
and the same article the grooves, oo, bosses, $\mathrm{f} f$, and conical or cone
 40,953.-Process of Refining Sorghum Sirup.-J. F. Shel don, Viola, Ill:
I claim the process herein described of treating cold sirups with 40,954.- Process of Manufacturing Sugar from Sorghum.
I claim the proces herein described of treating sorghum sirup,
her cold, with saleratus or its equivalent, in the manner and pro
ortions herein set forth and described.
40,955.-Canceled.
40,956.-Artificial Leg.-I. D. Small, North Fairfield,
Ohio
I clam, first, The eombination with the knee and ankle oints,
onstructed as descrihed of the cords, $C$ and E , spiral spring, f, and
ulleys, L :und M , arranged, attached and operating as and for the pulleys, L incl M, arranged, attached and operating as and for the
purpose s, feciticl
Second, I claim the spring, S , whon constructed, applied and oper 40,957.-Railroad Car 'Truck.-A. F. Smith, Norwich,
 heren set forth.
Second, The employment of the within-described fixed straps, $M$
sringing suspending links, tive equiralents arranged substantially as shown, whereby the ver
 40,958.-Projectiles for Ordnance.-D. E. Somes, Wash ington, D. C.:
reardain, first, Restraining a ball or projectile in a gun on its out-
wo burnsand by the maxis of friction, thlt the powder shall have time
to maximum or any desired amount of its power deelorn and he maximum or
 40,959.-Cultivator.-A. J. Sparks, Wyanet, Ill.: I claim, frnt, The twn levere, GQ G', connected together by a joint the plow beams, H H, substantially as shown, to admit of a ready
lateral movement of the same as well as the ready elevating of the
plows above the surface of the earth as set forth
 with rollers, s o, at their upper ends which work on uxitabie ways or Third, The hooks, M, on the plow beams, , in connection with the
pendant hook provections, N, on the frame, A, when said parts are
used in combination with laterally moving plow beams for the purusese in combinid.
(The object of this invention is to obtain a plow of simple construction which will aumit of the plows being moved laterally with greater acility than usual, to conform to the sinuosities of the rows of corn behind it ar herion the depth of the penetration of the plows and ralating the he depth orthe penit the width of the and reglatg the space corn.]
0,900. Huop Skirt Wire.-J. W. Stiles, New York City: I claim a steel hoop for ladies hoop skirts, covered with one or
more metas by plating, electrop-pating, or in the moist way or other equivalent means, the hoop may then or may not be covered with
cotton or other tex tile fabric, wherey I poduce a more eleg ant,
cleanly and cleansable hoop for ladies' hoop skirts. 40,961.-Field Rollers.-U. M. Sunderland, Highgate, I claim the gudgeon cross-bar, $P$, when provided with the single at-
 40,962.-Machine for Measuring Cloth.-C. M. Swany, Philapelphia, Pa.:
claim the drum, B, provided with the screw shaft, C. and nut, D, n conbination with the graduated plates, b b, one or both, pressure
oller, E, and the le ver or park, J, an ratchet or milled wheel. I, or
heir equivalents, all arranged to operate substantially as and for roller, E, and the lever or pawl
their equivalents, all arrange
the purpose herein set forth.
[This invention consists in the employment or use of a drum protion with a pressure roller, lever and graduated plate, all being a ranged in such a manner and in such relation with two ranged in suon which the cloth is unwoundand upon the other of which it is wound, that the desired work may be done in an ex. peditious and accurate manner.]
40,963.-Spring for Furniture.-C. F. and J. W. Tillman, La Crosse, Wis.
I claim the stem, $\mathbf{D}$, provided with an adjustable pin,, , in combl
nation with the cap,
structed and operating in thens, , spring $A$, and slat, $B$, all construnted and operating, in the manner and for the purpose heretn
shown and described. [The object of this
larly bed springs in an upright position, doing away with partieuof tieing or sewing to the webbing and to render said springs adjustable, so that they can be set according to the weight which they are to sustain and to prevent them being bent sideways.]
40,964.-Process of Brouzing or Coloring Iron.-Hiram I claim the process of bronzing iron substantially as described 40,965.-Mode of Changing Motion.-R. G. Turner and We claim the, above-described combination for obtaining a conttn-
 ical equivalents, arranged and applicd to two shants, A B, substa
ally in manner and so as to co-operate as hereinbefore specifed.

40,966.-Car Coupling.-John Van Dyne, Crum Elbow, N. Y.:

[The object of this invention is to simplify the car coupling by dispensing with certain parts thereof, and at the same time render the coupling more efficient than it originally was.]
40,967.-Tool for Fastening Boiler Tubes.-Aaron Van Guysling North Greenbush, N. Y.:
I claim, frst, hhe application of the handie, F, to the sleeve, A, to
operate in combination with the segmental expander, D, and coni-
cal mandrel, C , in the manner and for the purpose substantially as described Second, So arranging the segmen tal expanders, D , in rela tion to each
other and to the seeve, A, that the same when not exp anded leave
no gaps between their adjoning ed ees, and when expand other and to the seeve, A, that the same when not exp anded leave
no gap betwee their adjining edges, and when expanded they em
bracet he largest possible part of the inner surface of the tube as set forth.
This invention is intended as an improvement on a tool for attaching tubes to boilers, on which a patent was granted to Thomas Prosser April 17, 1849. The improvement relates to the slotted sleeve whic forms the guide for the segmental expanders, and which is provided tool can be turned, and that by this action the joints between th tools and tube-shut is rendered smooth, free from ridgesor wrinkles and perfectly tigbt.]
40,968.-Confining the ends of Elliptic Springs.-Rich ard Vose, New York City :
 when sead tension plates are self-retained in thenion proper porsitiong,
and left free to expand inde pendently of each other, substantially as
is and ert iree to expand cae pendently of each otber, substantially as
is herein set forth and described. and caps to retain and secure the
I claim endla of the elastic plates, in an enl capticas to ret semin and secliptical tense the
plate spring, substantially in the manner and for the purpose herein
qet forth
40,969.-Shingle Machine.-Martin Weaver, Millers 0,969.-Shingle Machine.-Martin Wea
burgh, Pa. Ante-dated Dec. 1, 1863 :
 apapted to cut on both sides of the horizon tal endless chain, E, and
gageblocks, K , allarranged and operating as
Eecond, The comber forth.

[ $B y$ means of this invention shingles are sawn at two places on shingle machine as fastastwo operators can place the blocks in positlon.]
40,970.-Portable Photographic Gallery.-Samuel Weaver, Gettysburgh, Pa.
claim the enlargement of a portable daguerrean gallery or house movable sides,, , and friction rolle rss, $\mathbf{E}$, as, arranged, and operating
substantially in the manner herein specified. 40,971.-Vegetable Cutter.-Amos H. Wellington, Woodstock, Vt. :
I claim my improved machine or combination and arrangement of
the vertical concal hopper, B, the two detainers or cutting boards,
L L , and a vertical holow cone or frustum, C ,
 0,972.-Shuttle Fastening.-Gilbert D. Whitmore, Bos ton, Mass.
I clatm the above-explained improved blind fastener, havinga han-
dle, E, and two or any other suitable number of inclined cam slots,
 40,973.-Cultivator.-Erastus Wilcox, Delhi, Iowa:

40,974.-Fan Blower.-William Winter, Plainfield, N. J. : I claim the annular air-chamber, a, and doubleconical cavity, a,
With central apertures, f, in combination with triangular rotary
B, construction and operating substantially as and for the purpose B, constr ucted and operating su bstantially as and for the purpose
shownand described.
40,975.-Cast-iron Building Pieces.-Robert Wood, Phil-
adelphia, Pa. : adelphia, Pa.:
I clamm building pieces consisting of hollow cast-iron shells, baving
projections and holes arranged substantially as and for the purpose erein set forth.
40,976.-Refrigerator.-W. M. Baker (assignor to himself and W. R. Heath), Walpole, Ind.
claim the air-tubes, I J, and air-chamber, $H$, in combination with the ice-chamber, D, and ventilato
with the inner case, B,
for the operate
[This invention relates to an improvement on a refrigerator for which Letters Patent were granted to this inventor, bearing date July 18, 1863. The object of the invention is to supply the interior of the refrigerator with col
40,977.-Cooling and Discharging Fermented Liquors.-
Felix Brunnow (assignor to himself and Joseph $N$
I claim a vessel, A, or any suitable form for containing ice and
water, and the weighted inverted vesse, $D$, in combination with the
,
Water, and the weighted inverted vessel, D, in combination with the
cocks and thees hereindescribed, or any equivalent to the same, the
whole operating substantially as described, torthe purpose specifed.
40,978.-Primed Metallic Cartridge.-Silas Crispin, New
York City, assignor to Thomas Poultney, Baltimore,
Md.

I claim, frrst, The combination of a thin-wrapped metal and paper
cartridge case ith a primer, sosecnrely fastened together as toforma
primed ex pauding wrapped metal and paper cartridge substantiall
primed expauding wrapped metal and paper cartridge, substantially
as above described.
second, The combination of a thin-wrapped metal cartridge case
Second, The combination of a thin-wrapped metal cartridge case
and a rrimer, so securely fastened together to to constitute a primed
expanding $w$ rapped metal cartridge, substantially as described. 40,979.-Corn Harvester.-Edward J. Eno (assignor to Stephen H. Eno), Jacksonville, ll .
I claim, first, The rising and falling plates, $I I^{\prime}$, operated by the
part pinion, $J^{\prime}$, in combination with the guide arms, , and the endless apron, Q, all being placed within or attached to a box, C, ap-
plied to tho body or cart or wagon, to operate substantially as and
lor the purpose herein set forth. for the purpose herein set forth.
Second, fre particular manner of attaching the box, $C$, to the
wagon body, to wit, by means of the posts, D, and keys, E, as herein
[This invention relates to a new and improved machine for detaching the ears of corn from the standing stalks, and depositing the former in a cart or wagon as the latter is drawn along over the field and in proper relation with the rows of corn.]
40,980.-Spindle Bolsters of Spinning Machines.-Richard Fethney, Manchester, England, assignor to
Lewis Leigh, Seymour, Conn. Patented in EngLewis Leigh, Seymour, Conn. Patented in Eng-
land Nov. 5,1861 : I clasim, frrst, The tubular bolster for spindles, herein described,
provided withlaspherical bearint fiting precess in the spindle rail,
for the purposes and substantially as specified. for the purposes and substantiall as apecified. described, for prevent-
Secon, I Claim the mean, sustantialy as
ing the rotation of said boleter and retaining it in its recess in the
splndle rail ah set forth.

40,981.-LeverJack.-Thomas M. Kane (assignor to him self and Ogden Howell), Goshen, N. Y.
I claim the construction of the uprights, in combination with the
lever blo cs and clevis when constructed, arranged and combined as
herein described and for the purposes set forth herein d escribed and for the purposes set forth.
40,982.-Fan Blower.-M. V. Noble, St. Anthony, Minn assignor to himself, J. C. Nobles and ElizaC. Suy I claim, in combination with a fan case having closed eyes, and a
ivided fan, the double sets of inlet and exit air ducts or passages, C C' and D D, constructed arranged and operating together for the
purpose ofdrawing in and forcing through it connter currents of pur
and impure air, substantially as and for the purpose described. 40,983.-Mode of Fastening Bales of Merchandize.-T W. Reilly (assignor to Hector H. McClean), New Or leans, La.:
I claim the buckle, $A$, with tongues, $d$ d, and center piece, $C$, as
fully represent $d$ in the drawings. 40,984.-Manufacture of Artificial Stone.-F. M. Rusc haupt, New York City, assignor to J. G. Kershaw I claim the manuf, Pare of artificial stone from lime, clay and ge atinous silicic acid, mi
0,985.-Hoop Skirt.-S. S. Sherwood, Acquackanonck N. J assignor to himself and Alexander Douglas, English Neighborhood, N. J.:
I claim the combination with the tapes, A A, woven with loops or
their equivalent s, and the toops, Et, of the cords or braids F F,
when the latter are secured outside of the tapes, and not throug in hem,
40,986.-Turbine Water Wheels.-Seth Whalen, Balston Spa, N. Y, assignor to himself and Hannah Whalen I claim the guide wheel, $g$, with the chates, 1,1 , and central dis-



0,987.-Mill for Grinding Fruit, Grain, \&c.-Wm. N Whiteley, Jerome Fassler and O. S. Kelly, Springfield, Ohio :
First, we claim the three grinding rollers in combination with the
metal segments, $k$, constructed substantially as described for the
purposes set forth.
second, In combinan with the frame and grinding rollers ar-
In
Frich communicates motion to or between the rollers on the ends on
he shafts outside of the journal boze and frame substa
Third, We claim, in combination with the ribbed segment, $N$ the
spiral crushing and feeding roller arranged over tbe grinding rofers
and
hand $H^{\prime}$, substantially as described and shown, to crush and feed
hen
Fintes uniformly to the grinding rollers.
 ation with the crushing and feeding roller arranged above them.
Fifth, We claim the combination oi the hopper, $Q$, ribbed segment,
, segments, $R R^{\prime}$, and rides, $L \mathbf{L}$, with the rolle,$M$, forming the crushments, R R', and rides, L ,
for wasing and and clucteaning the mas toll.
40,988.-Metallic Cartridge.-T. J. Rodman, Watercown,
Mass., and Silas Crispin, New York City, assignors
to Thomas Poultney, Baltimore, Md.:
We claim, frst, The thin metal-wrapped cartridge case, made sub-
stantiall in the manee descibed andor the purpose set forth Second The forming of a wrapped thin metal cartridge case com-
bine with an internal or axternap trengthening disk or cups Fheth-
er this disk or cup is made of paper, metal,or an elastic materlal, suber this disk or cup is made of
stantially as above described.

## RE-ISSUES

1,589.-Loom.-Thomas Lovelidge, Philadelphia, PaPatented Feb. 14, 1860
I claim yarr-delivering, mechanism, consisting of a toothed wheel
and a detent or escapement lever, or their equivalents, a pplied to or operating with the yarn beam, substantially as set forth when the
said meenanism is controlled by the tension of the yarn trough the
medium of the devices herein set forth, or the equivalent on the
1,590.-Preparation of Straw for Paper Pulp.-J. B. Paler ented June 21, 1859. Re-issued July 3, 1860 I claim the process of subjecting straw or similar stalks to the si-
mnttaneous action of an alk aline liquid, asitation and a high temper atnre, such as is produced by contact witt a sur race heated by a trre
heat, Whereby such a change is effected in the organization of the
glut unous or reslinous matters contained in the material that the flbrousmaterial can be separated from them by washi
1,591.-J. B. Palser and Gardner Howland, Fort Edward
We claim as a new article of $n$
substantially as berein set forth
1,592.-Sewing Machine.-William Stanley" (assignee by
mesne assignments of A. H. Hook), New York City.
Patented Nov. 30, 1859
I claim the combination of the lever s, $m$ n, arm, $k$, spring, $o$, and
am,
pose set constructedand arranged su bstantially as and for the purcam, po constructedand arranged su bstantially as and for the pur-
pose set forth.
The combination of the two washers or plates, $\boldsymbol{z}$, concave at the
center and rounded at their outer edges, with a center pin, and any The combination of the two washers or plates, $\mathbf{z} \mathbf{z}$, concave at the
conter and rounded at their outer edgee, with
sinitable meansto give such plates pressure, substantint and any
sthe purposes set forth.

## DESIGNS

1,876.-Metal Tea Set.-Ernest 'Kaufman, Philadelphia,
1,877 and 1,878.-Stove Plates.-D. E. Paris, Troy, N.Y EXTENSIONS.
Machinery for Making Cord.-W. E. Nichols, East Had dam, Conn. Patented Dec. 11 1849. Re-issued Jan. 20, 1857 :
I claim first, Twisting or controlling the $t$ twist of the strands while
the nainfr ame is revolvig to lay them into cord, by causing an even-faced wheel attached concentrically to and revolving wing the the
bobbin frame,to travel over a fixed and smooth surface, friction caus ingecond, Revolving the bobbin frames on their own axes to twist
the strands, at the same time that they are carried round a common
 the strands and cord, substantially as hereIn set forti. of the central
Third, I claim the construction and arrangement
stem or spindle of the bobbin गrame, operating subtstantlally as here stem or spind le of the bobbin rrame, operating substantlally as here-
in eet forth; vhereby the yarna are collect vely subjected to progresg
ively increasing tension and twist, from the commencement to the ively increasing tension and twist from the commencement to the
end of the processof laging themlat the strand, whereby the lat
ter is rendered smooth and regular in its figure and of uniform den sity and strength, and subjected to uniform tension, while being laid
into the cord.
Loom for Weaving Figured Fabrics.-Moses Marshall April 24, 1860 :
I claim combining with the jacks that operate the series of leaves
of heddles, and with the litter and depreser and pattern chain, or any equival ent apparatus for determining the pattern, a mechan, o
for holding the jacks either in their elevated or depressed position rer mon not required to be operated, substantially as and for the pur
pose speciffed.

I also claim imparting an irregular motion, substantially such as
herein cacribed to to the jacks, by means of eccentric cog wheels, sub-
stantially as and for the purpose specifled.

## 

O. M. B., of Conn.-By covering the surface of your gal vanizingvessel with powdered charcoal,
not be troubled with disagreeable fumes.
O. E. M, of Ill.-We have never seen a casting (part of which was chilled) rendered malleable, with the chilled part pre served in the original condition
T. C., of R. I.-You state that an article recently patented in England has been introducedand sold bere, and you ask"if I obtain an assignment from the pa.entee and take out a patent here, can I prevent the further manufacture of the article by other parties $\%$ We reply you can ; but the inventor must make the application for the patent in his own name and assign the whole right tr gou, in which case the patent would issue to you as asslignee.
T. G. S., of C. W.-We have no business information concerning House's mode of operating window blinds. Unless youget the facts from him we do not know in what other way you can do ${ }^{\prime \prime \prime}{ }^{\prime \prime}$ rencer see that you are a sosesible as to contemplate using steam on your farm instead of depending on hand labor. English farmers are derided sometimes for their old fogy ideas, but they are about twentyfive years ahead of their brethren in our country in this respect. Kniting machines are in practical operation, and there are many that and register is abo
C. E. F., of N. Y.-Your method of expressing cider appears to be new, and we do not see any reason why the plan would not work well, though there may be practical dificulles which could only be found out by experiment.
R. S. S. H., of Md.-The New England Farmer is published in Boston. You had better send on $\$ 2$ and subscribe for it, and we have no doubt the editor will answer your enquiry
A. C. E., of Mass.-You ask if there would be much risk in your going to Buftalo "toget a situation as second engineer on a propeller." You are just as competent to answer such a question as we are. We know nothing whatever about situatious on Buffalo propellers.
H. H., of Ohio.-If an invention has been in use in your cown for five years a valla patent could not be obtained for it-you can continue the use of the invention without danger of molesta-
tion. We thank you for your efforts to increase the circulation of tion. We thank you for your efforts to increase the circulation of our paper in your neigubortood.
G. W. F., of Ohio.-We cannot tell you how to split H. W. F., of C. W.-Clean your coins with dilute sulphuric acid; one part of acid in ten of water will answer very well. If there are dates upon them this will bring them out, if not, not. Nothing can bring out the date of coin which has been worn off; there are some old coin washers in this city, we are told, who have a simple method for bringing out dates-that is to manufacJ. L. H., of Mich.-" Campin's Practical Mechanics," contains a portion of the information you seek. We cannot see how it is that correspondents write to us for information upon matters that we have just printed whole columns about in the Scientipic american. A little more attention would save trouble on all sides.

## Money Received.

At the Scientific American Office, on account of Patent Office business, from Wednesday, Dec. 16, to Wednesday, Dec. 23 1864 :-
J. O. H., of Pa., \$44; B. E., of N. Y., \$25; J. M., of N. Y., \$25; L H. B, of Cal 20 ; $E$, $N$, $Y$, $F$. H. B., of Cal., $\$ 20$; E. C., of N. Y., $\$ 40$; W. F. O., of Mass., $\$ 45 ;$ O.
F., of Mass., $\$ 20$; R. T., of N. Y., $\$ 20 ;$ G. B., of N. J., $\$ 16 ;$ J. E F., of Mass., $\$ 20$; R. T., of N. Y., $\$ 20$; G. B., of N. J., $\$ 16$; J. E., of
N. Y., $\$ 16$; R. H., of Mass., $\$ 20$; G. G. H., of Conn., $\$ 45 ;$ C. C. C., of N. Y., $\$ 45 ;$ J. E., of N. Y., $\$ 100$; F. McC., of Conn., $\$ 50$; V. H. H.
 of Ky., $\$ 16$; G. R. V., of N. Y., $\$ 30$; H. C., of Ohio, $\$ 47$; H. W. B. of KY., $\$ 16 ;$ G. R. V., of N. Y., $\$ 30$; H. C., of Ohio, \$47; H. W. B.,
of Iowa, $\$ 16$; E. M. K., of Iowa, $\$ 16$; J. T., of Ind., $\$ 16 ;$ A. \& H., of Conn., $\$ 30$; т. A. M., of Pa., $\$ 16$; C. W., of Mich., $\$ 25 ;$ A. J. M., of N
$\mathbf{Y} . \$ 32 ;$ J. B. H. ofR. I., $\$ 100 ;$ W. H., of N. Y., $\$ 12 ;$ W. LL, of $\mathbf{Y}$ Y., $\$ 32$; J. B. H., ofR. I., $\$ 100$; W. H., of N. Y., $\$ 12$; W. L., of N. Y \$48; W. M. K., of N. Y., \$41; J. B., Jr., of N. Y., \$20; H. S. B., of La. $\$ 15 ;$ R. S. C., of Iowa., \$45; W. M. D., of N. Y., \$41; B. A. H.,
Iowa, $\$ 45$ E. C. C., of IIL., \$41; T. R. C., of Mass., $\$ 45$; G. S. P., of Mass., \$20; W. H., of N. Y., \$22; N. C. W., of N. Y., \$25; H. H. H of Ohio, $\$ 16 ;$ D. L., of Vt. $\$ 20 ;$ C. T., of N. J., $\$ 16 ;$ M. B., of Ky., $\$ 26$;
J. W. P., of Mass., \$35; J. Z., Ill., \$15; H S. S., of Mass., \$16; A.L S., of Con of Maine, $\$ 16$; ; G. B., of Wis., $\$ 16$; A. A., of MIl.,s16; N. J. A., of II., \$16; P. B., of N. J., \$25; G. C., of Conn., \$16; S. D. T., of Mass., $\$ 16$; M. H. M., of Ohio, $\$ 16$; F. C., of Mass., $\$ 35$; A. S., of N. Y., $\$ 20$;
F. B., of Bavaria, $\$ 16$ J. T. L., of N. Y., $\$ 12$ J. J., of N. Y., $\$ 20$; P. F. B., of Bavaria, $\$ 16$; J. T. L., of N. Y., $\$ 12$; J. D., of N. Y., $\$ 20$; P.
S. F., of N. Y., $\$ 45 ;$ J. C, of N. J., \$20; S. B., of N.Y., $\$ 20$; M. F., of S. F., of N. Y., $\$ 45 ;$ J. C. of N. J., $\$ 20$; S. B., of N. Y., $\$ 20$, M. . .,
Cono., $\$ 20$; H. \& H, of N. Y., $\$ 25 ;$ P. C., of N. Y., $\$ 6$; W. F, of Mo. $\$ 20$; L. C., of Russia, $\$ 16 ;$ E. \& H., of Mass, $\$ 20$; W. X. S., of Mass
 T. S.P. B., of Y., \$.N, A.G. W., or Cal., \$3N, J. W. D., or Mich., \$15; S. \& S., of III., \$15; T. S. M., of Obio, \$16; T. J. T., of Md., \$16; G. H. E., of Mass., \$15; N. H. R., of N. J., \$16; J. S., of Mo., \$16; W. H., of Pa., $\$ 16$.

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