## Movement of Troops.

Every day witnesses the departure of troops from this city. Colonel Duryee's regiment of Zouaves, which was reviewed on the 23 rd ult. with so much favor, is now quartered at Fortress Monroe, under command of General Butler. This regiment is made up of brave, determined men, and under command of the gallant Duryee will do service that will make the country proud of them. 'The Eighth Regiment(German rifles), composed of 1,046 , under command of Colonel Blenker, went to Washington on the 27th. The officers are men who have had much experience upon the battle fields of the old world. Colonel Blenker was in the Grecian army, and took part in many bat tles, particularly those of Achino and St. Marino, after which engagements King Otho promoted him to a place upon his staff, and presented him with medals of honor ; he was subsequently commander-in-chief of the army of the revolution. He has a thorough military education, and is regarded as one of the best soldiers now in the field. The uniform of this company is admirable, consisting of gray pants, and a loose gray coat, with a short belt, by which it can be tightened or loosened about the waist at pleasure, and they are armed with Sharp's rifles. A corps of sappers and miners preceded the soldiers, provided with axes, spades, picks and other tools likely to be needed in this department, and a long leather apron. They have two ambulances and about eight horses, some of which belong to the officers. Each company has two portable cases containing bandages, lint, plasters, chloroform, and other articles necessary for hospital use. A large body of citizens escorted the regiment to the depot at Jersey City, where they took the carsf or Washington, singing a German song of departure for the wars, as the long train moved off.
The Ninth Regiment, under command of Colonel Styles, which, as regards physical ability, moral training and intelligence, is not to be excelled by any in the Constitutional army. It is composed of over 800 men . This regiment started for Washington at the same time with Colonel Blenker's, the whole force occupying thirty-seven cars.
The Garibaldi Guard departed for Washington on the 28th. This regiment is composed of foreigners, a very large proportion of whom have seen service. It is commanded by Colonel d'Utassy, an experienced and able officer, who has served, as well as most of the other officers, in the wars of Hungary, Italy and the Crimea.
Colonel Bartlett's Naval Brigadeconsists of o ver one thousand men. This brigade was ordered to Fortress Monroe on the 29th to co-operate with General Butler in the approaching demonstration upon Norfolk. regiments in this city.
On the 27 th ult. there were quartered in this city the following regiments :-
Naval Brigade, Colonel Bartlett ; Excelsior Brigade General Sickes; Empire City Regiment, Colonel Sheehan Thirty-sixth (Connaught Rangers), Colonel McCunn; AnColonel Torre; President Guards, Colonel G ood win; Imperial Zouav es, Co lonel Merritt; ; Washington Volunteers, Colonel Innes, Second Regiment Fire Zouaves; Mozart Regiment, Colonel Cocks; Tammany Regiment, Colonel Regiment, Colonel Taylor ; Sixth Regiment, Colonel Wil son; Ninth, Colonel Hawkins; Tenth, Colonel McChesney;
Fifteenth, Colonel McLeod Murph y; Seventeenth, Colone son; Ninth, Coilenenth, Colonel McLeoo Murphy; Seventeenth, Colonel Lansing; Twentieth, Colonel Weber; Twenty-fifth, Colonel Kenyon; Twenty:ninth, Colonel Steinwehr; Thirty-first,
Colonel Pratt; Thirty-fourth, Colonel Mathewson; ThirtyColonel Pratt; Thirty-
eigh th, Colonel Ward.
These regiments are rapidly preparing to take the field. They will constitute, when fully equipped, a more formidable army than the government has hitherto employed in times of peace. General Sickles' brigade is to embrace ten thousand men.

Value of a Mouse Trap.-A correspondent-R. T. Martin, of Winona, Minn.-in a letter to us, says :"On page 115, Vol. 12 (old series), Scientific American, there is an account given of a cheap mouse trap, which consists of a pipe-bowl filled with cheese and placed under the edge of a tumbler. This alone has been worth to me, more than all I have paid for your paper, which I have taken for eight years.

Russian Pacific Trlegrape.-The plan for establishing a telegraphic line connecting Europe, through Siberia, with the Pacific ocean, has been undertaken by the Russian Ministry of Marine. It is expected that the entire line from St. Petersburg to the Pacific will be completed in five years.

Wells' First Principles of Geology.-The in quiry is of ten made of us, what book we can recom mend to students and others who are desirous of ac quiring an elementary knowledge of geology. Hav ing had an opportunity of thoroughly examining a work recently published by Messrs. Ivison \& Phinney of this city, the title of which we give above, we are able to answer the question to our utmost satisfaction The author, Mr. David A. Wells, is well known to the public, especially to those interested in school books, for his admirable works on chemistry and nat ural philosophy, and also as the editor of the "Annual of Scientific Discovery." The work in question cannot fail to enhance his reputation. This subject of geology, usually so obscure to a beginner, he has treated with the utmost simplicits, and yet with great thoroughness, avoiding as much as possible the use of dry technicalities and minute discussions. The applications of the subject to the arts and every day life are also fully noticed, which give to the book a freshness and interest, and render it exceedingly attractive. The illustrations are numerous, and different entirely rom the old stereotyped pictures which have been doing duty for years. For elementary instruction we cordially recommend this work as by far the best of any before the public ; advanced students who are desirous of posting themselves respecting the latest view and theories in geology will find it exceedingly inter esting and valuable for reference.


ISSU ED FROM THE UNITED STA TES PATENT OFFICE for the week ending may 14, 1861.
$* *$ Pamphlets giving full particulars of the mode of anplying foo
atents, under the new law which wentinto force $M$ arch 4,1861, speci
 ventors, may be had gratis by address
of the ScIENTIFIC AMEIICAN. New York:

1,266.-John Adt, of Waterbury, Conn., for an Improve ment in Latch Bolts
 hen arranged to operate as and for' the purpose set forth.
The object of this invention is to obtain a combined lock and latch red The invention consists in applying to an ordinary slide latch
 locking cylinder,
sultis obtained.]
ultis obtaine
267.-Charles Askam, of Philadelph ia, Pa., for an im


1,268.-Henry Benton, of Guilford, Conn., for an Improve ment in Children's Fly ing Tops
I chim the employment or use, in combination with a spinning top
or spiral flanches. B, so applied as to
tive the top a rising and faling movenent, simultaneously with its rotating one, substantially as sel
morth. $\substack{\text { forth. } \\ \text { [This }}$
[This invention consists in providing a spmdle with a series of spiral
lanches, in such a manner that, by rotaing the spindle by means of flanches, in such a manner that, by rotating the spindle by means of
a top-cord, the flanches will cause the spindle torise or ascend a cer a tap-cord, the flanches will cause the spindle to 0 inse or ascend a cer
tin distance before it comes in contact with the ground or fioor, there y combining a rotary and an elevating movement which greatly add ot the amusement of spinning tops.]
1,269 .-L.S. Bundy and L. F. Edgerson, of
for an improvy We claim the construction and arrangemento of the feder, D, spring,
, uprigh $\mathrm{ts}, \mathrm{D}$, and E , wth cogs, d, as and for the purpose set forth. 1,270.-L. C. Chase, of Boston, Mass., for an improved mode of stirining SBeigh Bell Is:


1,271.-Ira Cooper, of Saybrook, Ohio, for an Improve ment in Cuopertivators
 braces, ,
set forth.
$1,272 .-N$. T. Edson, of New Orleans, La., for an Improved I claim the combination of the
 operated substan tially a s des cribed.
$1,273 .-$ W. T.
1,273 .-W. T. Clement, of Northampton, Mass., for an Improvement in securing Handiles to Hoes



provementicott, of Washington, D. C., for an Im-


Serving as a protection to the pipe, E, and perforations, b b, as set
forth. Sorth
Beond, in combination with the above, I claim the perforated pipe, 1,275.-S. M. Fales, of Baltimore, Ma. for an Improvement in Refining and Smelting Furnaces
I claim extend ding one or morer ot the arches, A, of the furnace, B D,
constructed as set forth in my patent dated Feb. 8th, 1859 and having
 neys, C, substantialy as and for the purposesset rert.
1,276 . S . M. Fales, of Baltimore, Md., or an Improvement in Refining and Pudding Furnaces :


 patented to me and bearing date Feb. 8 th, 1859 , of a reur
sage, $G$, substantially as and for the purposes set forth.
1,277.-I. J. Fearing, of South Weymouth, Mass., for an Improvement in Button-Hole Cutters:
 and for the purpose set forth.
[See engraving in this number.]
1,278.-Joseph Forrest, of New York City, for an Improvement in Machines for Breaking Sugar:
I claim the combination of two
 bally on its periphery, and one or more pairs of or ollerr armed with
e e th, the whole arranged substantially as and for the purpose set forth. 1,279.-J. S. Gauson and C. T. Coit, of Buffalo, N. Y., for an Improvement in Fire Places
First, We claim so constructing the fre back, B, as that it will extend
pward and above the mouth of the chimney and then downward upward and above the mouth of the chimney, and then downward and
orward, as shown at bi, with semi-circular bend, b2, receding again upwardy as shown at b3, for the purposes and substantially as de-
scribed Second, Said fire back being constructed substantially as described,
we claim in combination and arrangement therewith the jacket, N, for the purposes set forth.
Third, We claim the combination of the tube or air chamber, $L$, with he recess, $D$, as and for the purposes set forth.
2,280.-John S. Getchell, of Machias, Me., for an Improved Combined Capstan and Windlass
I claim the combination with the verticai capstan herein described
or the box , car wheels, $F$, , shans, $G$ G ${ }^{\prime}$, shaft $I$, drum, J, and
novable standard, $K$, all arranged and operating substantially as and or the box, Cd gea,
morabe standard, K, all ar,
for the purposes set forth.
1 This invention relates to the combination with a ship's capstan of a windlass so that either one or the other may be employed, as occasion
281.-D. F. Goodhue and E. H. Carey, of Cincinnati, O for an Improvement in Wheel Carriages
We claim the combination herein described of the spokeless rings
groved supporting wheels, $B$, axle, $\mathbf{C}$, grooved guide rollers, $H H$ $\mathrm{H}^{\prime \prime}$, , and springs, F , the whole beang constructed,
ating in the manner and for the purposes sel forth.
1.,282.--W. C. Grimes, of Philadelphia, Pa., for an Improve ment in City Railroads
I claim the double track, C and D , constructed substantially as de-
scribed and for the purpose set forth. 1,283.-F. R. Grumel, of Geneva, Switzerland, for an Im ,283.-F. R. Grumel, of Geneva, Switz provement in Photographic Album:
I claim, frist, the construction of leaves for albu Thatagraphic or llthographic proofs, engravings or other drawings
lithon
with an opening or frame on each side, so that with an opening or frame on each side, so that two proofs, engravings,
or drawing may be inserted back to back, thereby showing one on either side, substantially as shown and described. Seond, The formaton of leaves for photoraphic or other album by soconi, Heing with a tront and back framing leap a center leaf recesse
and of such thickness as that when containing one or two photogral hi

Tied.
Third, The construction of leaves for photographic or other album,
by pasting or otherwise permanently fixing the frontand back framing
 and freefor the insertion of photographic cards or drawings, as de
scribed.
Fourth, In combination with leaves constructed and arranged as de Fourth, In combination with leaves constructed and arranged as de
scribed, I claim the filling wiece tor closing the gap formed for the ready insertion of the pho.
substantially as specified.
1,284.-James M. Hicks, of Boston, Mass., for an Improvement in Erasers :
I claim, first, Providing the eraser blade with an independent back made of bone, rubber, ivory, wood, or other suitable animal or veget ie substance or substances, separate,
ior the purporse purposes set forth.
Second, Forming an indenendent supporting and burnish ing back to Second, Forming an indenendent supporting and burnishing back to
the blade by extending the handle which carries the latter, substantial
ly he bade by ex
is described.
Third Unit
Third, Uniting the blade with the handle by inserting it in a cross
cut or sint in the end of the hande, in combination with riveting
holding it by pins to the independent back formed by extension of the hor or siot in the end of the handle, in combination with riveting
holding it by pins to the independent back formed by extension of the handle, essentially as specified.
Fourth, The combination with
Fout and The combination with an erasing blade of metalor its equiv
alent andere, of an india rubber eraser or burnisher, a thorth
,285.-J. J. Hirshbuihl, of Louisville, Ky., for an Improve ment in Locks
 D, provded widh with a slot, a, arranged as and for the purpose set forth
second, The slide bolt, $K$, when used in connection with the
 nd for the purpose specilied,
IThe object of this invention is to obtain a lock that will be burgla proof, or unpickable, and still be simple in arrangement and econom
cal to construct.]
,286.-C. C. Hoff, of Pough keepsie, N.Y., for Mastic Com position forRoofing
he manner specified, black oxyd of gas tar, treated and prepared in the manner specified, black oxyd of manganese, boiled plaster or
Paris, alum, and calcined chatoal, mixed together in the manerand
about in the proportion stated, and appled to the canvas, substantially about in the proportion stated,
1,287.-H. S. Holmes, of Lynn, Mass., for Improvement in I claim securing the upper edge of the cloth of the front and hee
parts of a Congress gaiter top to their respective linings by an insid seam, b, figs. 8 and li, when such seams are used in connection with
gores of elastic cloth attachedto the gaitertop and lining by a seam
common to all, the whole being effected in the manner described and common to all, the whole
for the purposes set forth.
1,288.-Nelson Homes, of Leona, N. Y., for an Improved Broom Clasp I claim the combina tion of the bars or slips, A A A A, and bands, $L$
, in their application to hrooms and brushes, as described, the whole L, in their application to hrooms and brushes, as described, the whole
being arranged and operatmg substantially as and fur the purpose set
forth. 1,289.-B. B. Hotchkiss, of Sharon, Conn., for Improved Projectile for Rifled Ordnance : I claim, first, The arrangement of the inclined surfaces or cones, B
and fo and the cylindrical nortion, a, in connection with the ring orsof
netal D, placed between B and $f$, substantially as and for the purpose
 ofl, $E$, within proper recesses in the hody of the projectile and in fron
of the belt, $D$, so arranged that a portion of the whole shall be force out tolurricate the bore , by the action of the metal ring, $D$, or itsequiv
alent, substantially as specited.


 Firth, I claim culting the patch, H, arte
clenty
stantiandy
stand
$1,290 .-\mathrm{H} . \mathrm{J}$. Howe, of Onarga, Ill., for Improvement in Corn Planters :



the seed-distributing device, whereby the huter may be coung the seed-distributing device, whereby the latter may be actuated by the
driver when planting in check-rows is required ; or, actuated automatcally from one of the ground wheels when itis designed to plant in rows or cultivation, in one direction only,]
1,291.-S. W. Howland, of Adams, Mass., for an Improvement in Knitting Mach ines:
I claim the changeable pressing sinker plate on the wheel, so as to
be able to ship one or more needles, and press the other, simply by hanging this
1,29 2.-John, Jefferson, and James McCausland, of Rondout, Ne claim, for arrangement of the ping or stud, $b$, in co
We claim the arrangement of the pin or stud, b, in combination with
the hinged reversible tiller, $A$, as and for the purposeshown and de-
scribed.
1,293.-William Jones, of Brooklyn, and Patrick Hanghain, of New York City, for improvement in Sewing

We claim, frrst, the side-pointed needle, as described.
Second, The combination of the needle with the fork and shuttle, a described,
Ther, The combination of the guide with the fork and needle, as
described, described.
Furth, The combination of the feed chain with the fork and needle, Fs described.
Fifth, Reaining the needle thread, in making the stitch, on the side
of the needle opposite to the slnintte, substantially as set forth. 1,294.-Henry Knight, of Jersey City, N. J., for an Improvem
I claim, first, Manufacturing cement pipes with metallic pipe inter I claim, irst, Nanuracturing cement pipes with metallic pipe inter-
mediate between its inner and outer surquces, byarranginthe metallic
pipe over the core, $\mathbf{B}$, and within the mold, $\mathbf{F}$, so that it divides about equally the space, between the core and the , mold, and then placing an
annular centering device, $I$, between the pipe and the mold, and introducng the cement first between the metallic pipe and the core, and
dhen between the pipe and the mould, all snbitantially in the manner and for the purpose described.
Second, Finishing the sections of the combination pipes at one of Second, Fmisting the sections of the combination pipes at one
their ends vith a metallic cupling extension, $J$, by means and in the
manner substantally as described. 1,295.-Th os. Langdon and H. G. Kellogg, of Quasqueton,
Iowa, for an Improved Broom: Iowa, for an Improved Broom:
We claim the employment or use of the wedge, $E$, and screw, $C$ We chaim the employment or use of the wedge, E, and screw, C ,
atteche to hanande, Ain combination with the cap, D, the above par ts
being applied to the broom cornati, and all arranged substantially as
and forthe purpose set forth being applied the broom corn, $I$, and all arranged substantiany as
and forthe purpose set forth
We further clam, in combination with the screw, $C$, wedge, $E$, and
and D . cross rod, H , attached to the clasp, $G$, and passing through
 [The object of this invention is to obtain a ready and simple means
whereby brooms may be manufactured by any one unskilled in the art practiced, and farmers and others who raise broom corn may keep themselves supplied with brooms of their own manufacture at a trifling cost.]
1,296.-Denis Lenain, of New York City, for an Improveclaim the construction of boot heels with a bolt, E passing down
, where the screw receives a nut, d, all of the above parts bein arranged
as show, and employedin connection with the buttom leither cover,
F , as setforth, tor the purposes described $F$, as setforth, for the purposes described.
[This invention relates to an improvement in the heels of boots and shoes, and has for itsobject durability, lightness, facility and economy in the construction thereof, as well as facility in repairing the same

1,297.-M. H. Mansfield, of Ashland, Ohio, for an Improve ment in Hangers for Shafting $\qquad$ chines adjustable, horizontally, vertically a and obligh for thy by means of
the standards, $A$, rng, E and screws, C a and F F, when arranged in relation tothe A, irnal, bo, , G, as spece, sified thus , this gi
every direction, a and for the purpose set forth.
1,298.-J. S. Marsh, of Lewisturg, Pa., for an Improvement in Seed Drills
I claim, frrst, The combination of the distributing roller, F , hinged
ournal, G , of the distributing roller, sliding bearing plate, J , having
 purpose set forth.
Second, The combination of the crank-shapedjournal, , slotted bear-
ing slide or plate, J, and hinged journal, $G$, in the manner and for the
purpose descrbed
Third
Third, The combination of the revolving cellular distributing roller,
E, hopper,' ${ }^{\prime}$,sliding seed gate, N, slotted lever plate, $P$, and guide
casting, 0 , in the manner and for the purpose described.
1,299.-Henry Maule, of Philadel phia, Pa., for an Improved



1,300.-William McClure, of Peebles, Pa., for an Improved
Sad Iron:
I claim the use of a shoe, constructed substantially as described, so
as to fit on the bottom of sad irons, and so arranged with spring lugsor as to fit on the bottom of sad irons, and so arranged with spring lugsor
other mode of attachment as to be easily attached to the iron or re-
moved therefrom at pleasure moved therefrom at pleasur
1,301.-W. H. Miller, of Philadelphia, Pa., for an Improved
Low Water Alarm for Steam Boilers: I claim the metal tube, $L$, and the float valve, M, working within the
glass tube, , in the manner and for the purpose specified above and
for no other purpose. or no other' purpose
1,302.-Daniel Miller, of Mariett a, Oh io, for an Improved
Cork Fastener for Bottles: Cork Fastener for Bottles
I claim, as an improved article of manufacture, a bottle cork fastener
that has the arms, a, of ofts oap, b, pivoted in the rear of the center of
the neck collar, B, and otherwise made as shown and described recs collar, B, and orwise made as shown and described [This inven.ion is applicable to any kind of bottles which are used for
holding fermented liquids, butit is more especiallyintended for mineral water botles fer holding, buthis in the bottles, water bottes for holding the corks in the bottles, and to take the place
1,303.-Samuel Mowry, of Whomelsdorf, Pa., for an Improvement in Horse Rakes:
I claim the combination of the bent arm, s, and catch, t , with the
levers, H and e, and their connecting mecchanism for operaing the
rake, when the several parts are arranged for joint operation, in the
manner desoribed.

1,304.-William N:Lgewt, of Chicopee, Mass., for an Im-
provement in Picker Motion:


1,305.-S. E. Oviatt, of Richfield, Ohio, for an Improvement laim the wire clath dlaphra
claim the wire cloth daphragm, ${ }^{E \prime \prime}$, in combination with the re
volving screen, ${ }^{\prime}$, and thresher, for the purpose set forth.
 1,306.-Suspended.
1,307.-Thomas Patterson, of Rush, Ill., for an Improvement in Plows


This invention is an improvement in operating turn plowshares for very heavy or light plowing, wherein the plow is supported under a carriage, and raised and depressed by the plowman while sitting on carriage.]
1,308.-Thomas Powers, of Philadelphia, Pa., for an Improvement in Gas Regulators :
I claim the combination and arrangem
claim the combination and arrangement of the double-acting bal
valve, A, with the hollow sliding tube. , , and the perforated hemi
spherical disk, K , operatung substantialiy as set forth $1,309 .-J$. R. Robinson, of Boston, Mass., for an Improve ment in Steam Boiler Furnaces: I claim the two walls, $C$, , and their intterposed chamber, $E$, and and gas mixing chamber, B, s, substantiaily as sand for the purpose specified
And in combination with the said walls, interposed chamber and
passages, I claim the described arrangement of the passage or paspassages, I claim the described arrangement of the passage or pas
sages, $f$, for the purpose specitied. 1,31 0.-Thomas Sanford, of Claremont, N. H., for an Im-
proved Steam Cock:
claim ryy improved steam cock, as constructed with its parts, B C,
low and to screw together, or one on or in the other, and with one of them provided with a lateral opening d, substantially as specitied,
the whole being applied to the stem, $D$, and partition, c , as and so as to operate as described.
1,311.-J. P. Sherwood, of Fort Edward, N. Y., for an Improvement in Sewing Machines
I clam, first, In combination with a needle and shutlle, applied,
combind and operating together as specified, the employment of the drawback mechanism, operating
slack of the needle thread loop
 the presser foot, I cloim the combinatyon of the lamerally osicillating
foot, T , and the rollers
stant 1,312 ,
1,312.-Lorenzo Sibert, of Mount Solon, Va., for an Im-
provement in Magazine Firearms: provement in Magazine Firearms :
I claim, first, The cumbination of the series of magazine tubes, B
with the barrel, A, and breech, D, substantially in the manner and for the purposedescribed
Third Third, An open breech, so constructed as to permit the unobstructed
passage of a cartridge direcelly thr iugh the same from top to loutom,
Substintially in the manner described Sinstintially in the manner described.
Fourth The combination of the tlited rollers, $F$ F $F^{\prime}$, or their eqniva.
 for the purpose set torth.
sixth, Expelling the empty cartridge case from the discharge cham-
ber by means of the succeeding cartrid ge, stibstantially in the manner deecribed.
seventh, Discharging the empty cartridge cases automatically into a
chamber in the stock of the gun, where they may be preserved for future use Eighth, Holding the loaded cartridge at the moment of explosion in an onen chamber in such manner that the cartringe itself shall form a
prolongation or extelnion of the bore of the gun.
Ninth Ninth, So arranging the fluted rollers, $\mathrm{F}^{\mathrm{F}} \mathrm{F}^{\prime}$, that the semi-diameter
of the loaded cartridge lying thereon shall project into the plane of the tube, , , to prevent the escape of more than one cartrige therefrom at
a time.
Tenth, The lock composed of the hammer, J, mainspring,, , trigger, Tenth, The lock composed of the hammer, J, mainspring, i, trigger,
S, triger spring, s, and cocking lever, I , arranged substantialial in the
manner described, in combination with the conveyer, G , for the purpose set forth.
Elevene combination of the conducting tube, $H$, and futed
rollers, $\mathbf{F}^{\prime}$, or their equivalent, substantially in the manner and for the purpose described. , in combination with the breech, $D$, and fluted
Twelfth, The guides,
roliers, $F$, $\mathrm{I}^{\prime}$, or their equivalent, substantially in the manner described, rollers, F F', or their equ,
for the purpose set forth.
1,313.-A. B. Smith, of Clinton, Pa., for an Improvement in Raking Attach ments to Harvesters:
It claim the cam, $\begin{aligned} & \text {, constructed, arranged and operating in combina- }\end{aligned}$ specified, for the purpose of turning the rake up and down at the termination of its backward and forward movements.
I also colaim the combination of the arm, S , and
I also claim the combination of the arm, s , and stop, s , tor giving
the additional forward and downward motion to the rake at the termination of its torward movement with the mechanism for operating
the grain or sheafguard. whereby the gavel is discharged in a compact form, subtantially as described.
I also claim the sheaf givard, arranged and operating in combination
with with
fied
also claim the compressing arms, $i, i$, arranged and acting in compurpose specified.
I also claim the combination and arrangement of the cam, $L$, vibrat ing lever, $K$, and arm, $M$, constructed substantially a s described, for
comtnunicating the required positive motion from the driving shait to
the shent suard 1,314.-H. R. Stover, of Lancaster, Pa., for an Improvementin Seeding Machines :
and formed by the diagonal partitions, $b$ b b, $b$, and tlange, d , substan-
tially as and for the purpose set forth. 1,315 .--Jacob Strayer, of Miamisburg, Ohio, for an Improvement in Seed Drills.
for seed drills opposite the spaces between the teeth on the other part or pertion ot said orller, substantially as described, so a s to deliver or
discharge the seed moreunitormly. 1,316.-Charles Titterton
for an Improvement in the Preparation of Bryai Zinc for a Paint. Patented in England November 4 1856:
I claim the subjecting of oxyd of zinc, when contained in a strong
holder, to a great press ire, by hydraulic, screw, or other powerful
presses, as described, whereby the density is covering powers brought to nearly equal white lead, overcoming a
great objection hitherto existing to the use of white

1,317.-Robert Watson, of Chatham, Ill., for an Improve ment in Permanent Railways:
I claim the employment, in connection with the rails, of wrought iron
chairs of the same length as the rails, constructed and arranged in the manner described, so as to form a continuous bed or gruove for the re
ception and support of the rails, all as set forth.
[The object of this invention in permanent railways is to secure a more permanent and durable support for rails known as the reversible
H-rail, which has two rolling tablos or surfaces that can be used alternately as one surface wears down.]

1,318.-C. Weitman, of Independ ence, Iowa, for an Im-
proved Broom : proved Broom:
I claim the tw wire frames, B B, united to or forming a part of
rew red, A, and otherwise constr ncted as described, in combination screw rod, $A$, and otherwise constrncted as described, in combination
with the slide, g, the conical cap, $C$, and screw handle, $D$, all arranged
as and for the purposes set forth. as and for the purposes set forth.
The object of this invention in brooms is to so construct the parts which confine the wisps of broom corn that any person, although un skilled in the art of making brooms hitherto used, may take an old, useless broom to pieces, and substitute new wisps of broom corn for 1,319.-M. G. Wilder, of Meriden, Conn., for an Improvementin Sewing Machines pitcman that rises and descends in directions transverse to the lon thitu piman movement of the looper, by means of plates fitted withe linclitued
dina
projections, whereby an intermittent lateral movement is imparted to Ihe looper, substantially as set forth
I also claim the combination of the looper shaft or stock with a pit man operated by a crank pin, by means of a pin and sloted cam plate,
the form of the cam slot being such that the point of the looper, when moving in both directions, is caused to pass by the back of the needle
sooner than it would if moved by the crank pin alone, substantially as sooner that
setforth.
Ialso clat
I also claim the combination of the shaft or stock of the looper wlth a pilman, by means of blocks or plates fitted with inclined proiections,
and with a pin and cam siot, whereby the before-described longitudinal
and lateral movements and lateral movements of the looper are derived from the movement
of a pitman operated by a crank pin, substantially as set forth.
I also claim the combination of an eye-pointed looper with a hook at of a pitman operated by a crank pin, substantially as set torth.
I also claim the combination ori, an eye-pointed looper with a hook at
its butt, sulstantially asset forth. 1,320.-S. R. Wilmot, of Brooklyn, N. Y., for an Improved Basket for Berries: I claim a basket for berries constructed of sheet metal strips or
plates cut and bent in the formas shown, and used in connection with the plates or disks, B C; a.ll arranged as shown to torm a new and im 1,321.-J. N. Wilson, of Mount Bethel, Pa., for an Improved Washing Machine
I claim the combination of the
1 claim the combination of the horiz ontal, rotating, rubbing wheel,
D, and suds box, B, arranged substantially as and for the purpose set
orth. orth.
The objectof this invention is to obtain a machine by which full conwere done manually in an ordinary washtub, and thereby prevent the clothes being in jured by an undue rubbing, and, at the same time, adof the work being expeditiously done.
1,322.-Henry Winter, of Albion Place, Hackney, County
Weighing Sacks. Patented in England September for 1859
claim a
descrimed mal cher 1,323.-C. B. Wood, of New York City, for an Improvement in Carriages
I claim the arrangement, in the manner shown and described, of the
bar, $G$, and springs, $E$, with the springs, $F$, and carriage body, $A$, all as
set forth. 1,324.-George Wood, of Strasburg, Pa., for an Improved Field Bucket
I claim the lid, E, with slots, H , in combination with the grooved ad
instable bars, $F$, extending across the upper and lower sldes of the lid
tor the purposes set tirth. 1
1,325.-J. E. Wootten, of Philadelphia, Pa., for an Improved Hydrostatic Pressure Indicator:
I claim the ram, , the cylindicial opening, in the block, $E$, and
the permanent, self-tightening packing, $h$, when the said block is of an appropriaue shape for torming a commanncation between the said op an
ing, $x$, and the space beneath the ramo of an thylutatic piess and
 the pointer, Q, graduated index plate, D, and the devices described, or
therie equivalents, for transmitting the motion of the siring to the
pointer, substantially int he manner and for the purpose set torth. 1,326.-Linus Yale, Jr., of Philadelphia, Pa., for an Im proved Lock :
I claim, first, The piece, $\mathbf{E}$, or its equivalent, used in the manner or
an equivalent manner, and tor the purpose substantially a s described.
second, The parts,
the manner D D, D , or their equivalents, deriving motion in the manner substantally as described.
Third, The piece, C , or its equivalent, with its arm, $g$, for the purpose and object described.
provement Yale, Jr ., of Philadelphia, Pa., for an Im-
I claim the application to locks of the parts, E el e2 d and M, or their
equivalents, for the purpose and object substantially as described. 1,328.-James Young, of New York City, for an Improvement in Electro-magnetic Bathing Apparatus :
I claim, first, The combination of a bath tub with non-conducting
sides and bottom, with metallic conducting ends, each end attached
the heal to the positive, and the foot to the negative pole of a helix, or vice ecerrat, substantially, as and for the purpose set forth. or a hellx, or
Second, The employment of msulated rockshat ts, b, plied in com-
 ing motion, while, at the same time, its insulation is preserved.
 Fourth, The combination of an electro-magnet, , M, bathing tup, A,
and metallic vessel, $H$, with a rose, $m$, constructed and operating as
and tor the and for the purpose set forth.
Fifth, Wrapping the sponge, $s^{\prime}$, round a copper ball, $s$, as and for the purpose specified.
Slith So combining the swinging tub, $A$, switch, $N$, and electro.
magnet, $M$, that by the oscillating motionsof the tub the current is magnet, M, that by
Seventh, The combination of the bathing tub, $A$, electro-magnet, $M$,
metal strips, $49^{\prime}$, and brakes, $\mathrm{rrl} \mathrm{r} 21 \cdot 3 \mathrm{r} 45 \mathrm{rb}$, constructed and $\bullet$ per. ating substantially as and for the purpose set forth.
Eighth, oo arranging the top rail , a*, on the sides of the tub that the
same proiects same projects o
pose described.
[This apparatus provides for administering a hot-air or Turkish bath, vapor bath, electro-magnetic bath, or ordinary water bath.]
1,329.-C. R. Alsop, of Middletown, Conn., assignor to J.
W. Alsop, of New York City, for an Improvement in
Revolving Fire-arms : I claim, first, Combining the oscillating cam, H, with the cocking
lever, soas to be operated by and with the sald lever, to permit the
backward longitudinal movement of the cylinder, substantially as de. scribed.
Second, I claim thespring, $K$, applied and operating in combination
with a stud or projection, $t$, on the side of the oscillating cam, $H$, to produce the necessary movement of the said cam to give the cylinder The forward longitudinal movement, substantialy as set
Third, I claim erfecting the cocking of the hammer by means of a
stud or projection, $s$, on the side of the oscillating cam, $H$, substanFoarth I I claim placing the spring, b, by which the backward longi.
Forinal movento the cylinder is produced within the axis pin ttself,
tudnal substantially as and for the purpose specified.
Fifth, $I$ claim combining the axis pin, $D$, with a
, Fifth, I claim combining the axis pin, $D$, with a pin, $F$, which at-
taches the rammer shellt the frame A, by means of the sprins,,
the pin, c , and the notch, e, all applied and operating substantially as described.
Sixth, . . claim the hanging of the trigger and sere on the axis pin of
the cam by which the forward longitudinal movement is produced,
subsentill substantially as described.
Seventh, I claim the hanging of the cocking lever, J, on the axis pin
of the cam by which the torward longitudinal movement of the cylin.


[This invention consists in certain improvements in the means of obtaining a longitudinal movement of the many-chambered cylinder, for the purpose of forcing it tightly up against the barrel, to make a tight joint therewith at the time of firing, and of drawing it back out of contacttherewithprevious to its rotarymovement. It alsoconsists in certain improvements in the mechanism for effecting the cocking of the hammer, and the rotation and stoppage of the cylinder, and in the mode of applying the trigger.]
1,330.-Moses Ducharme (assignor to himself and George Ducharme), of Cohoes, N. Y., for an Improvement in Locks:
I claim the combination of the latch bolt, A, shackle, B, escutcheon, C, and spring tumbler and esc utc heon sp ring, J , alt constrand
arranged substan tialy as shownand specified.
And I also claim the construction of the front plate, $E$, with notched

1,331.-C. H. Leffingwell, of Providence, R. I., assignor to
himself and P. B. Carpenter, of North Providence,
himself and P. B. Carpenter, of North Providence,
R. I., for an Improvement in Boot Legs

[The object of this invention is to obtain a close, stocking-fitting boot
leg which may be cut to fit any sized or shaped leg, and to give ease in putting on a boot, and also to ef ect a great saving in stock.]
1,332.-C. O. Luce (assignor to himself, I. M. Strong and
J. F. Eastbrook), of Brandon, V t., for an Improved W. F. Eastbrook), of
 forth.
[This invention consists in the arrangement of a tub rotated by means of a toothed ring at its bottom and on its outside, in combina tion with a series of rising and falling pounders arranged in the interior
of the tub, and on one side of the same, in such a mammer that, by the of the tub, and on one side of the same, in such a mammer that, by the
rotary motion of the tub, the clothes contained in the same are success ively exposed to the action of the pounders.]
1,333.-George Murray (assignor to himself and Sarah H. Hilbert), of Cleveland, Ohio, for an Improvement in I claim, first, The circtilar spout, $\mathbf{N}^{\prime} \mathbf{N}^{\prime}$, in combination with the
double oblique valves, $\mathrm{L} \mathrm{L}^{\prime}$, when the same' are constr ucted, arranged and operated as and for the purpose set forth.
Second, I claim the arrangerent of the pulieys, CD , for the purpose
of compressing the rope in order to prevent its slipping, as specified. 1,334.- Joseph Neumann (assignor to G. W. Robertson), 1 claim the case or guard, B, in combination with the upper end of
the barrel of a hydrant cock, he said caseor gaard being constructed
and and applied to the cock
the purpose specified.
1,335.-John Range (assignor to J. and E. Parker), of
Meriden, Conn., for an Improved Thumb Latch:
I claim the slide bolt, B, attached to a frame or plate, A, and provided
with a spring a, and the centran bow-shaped part ha aving ouble-beveled
surf surfaces,,$b^{b}$, in connection with the thumb piece, $D$,
without the boton, $G$, as and for the purpose set forth.
TThe object of this invention is to obtain a simple and economical thumb latch which may be applied to either a right or left hand door, and be capable of being locked or buttoned at the side of the door on
which the slide bolt of the latch is placed ] which the slide bolt of the latch is placed. I
1,336.-S. Roberts (assignor to himself and Alfred Adams)
of Cleveland, Ohio, for an Improved Barrel: of Cleveland, Ohio, for an Improved Barrel:
 1,337.-W. D. Wood, of Wilmington, Del., assignor to A Wood, of Philadelphia, Pa., for an Improvement in the
Manufacture of Sheet Iron: I claim, frst, Removing the scales: of oxyd of iron from the plate of iron in the manufacture of sheet iron, by annealing it and then passing
it successively between corrugated and plain rolls or pressts, substan-
it

 Third, The coating of the rolls with graphite or plumbago, or other
carbonaceous matter groundin oll, for the purpose of finishing the
outer surfaces in the maner described 1,338.-L. L. Miller, of Jersey Shore, Pa., for an Improved Washing Machine
I claim, first, The arrangement of the rubber, E, handle, H, slides,
I, studs, b, volute springs, K, and hand lever, $J$, the whole being don
structed, combined a and operated in the manner and for the purpose
shown anderne Shown and explained.
Second, The eombination and arrangement of the boxes, $\mathbf{L} \mathbf{L}$, rollers,
$D D$, and tub, $A$, constructed and applied in the manner and for the purposes shown and explained.

Re-issues.
78. - W. J. Seymour, of Waterbury, Conn., assignor to the Waterbury Brass Company, for an mproveme
Making Brass Kettles. Patented May 13,1856 : I claim, first, The production of kettles and articles of similar char-
a.cter, by the combined processes of stamping, to produce a preliminary acter, by the combined processes of stamping, to produce a preliminary
shape and spinning to complete the ultimate or finished torm, substan
tially as described. tialy as described. the new method or process, substantially as de
Second, I claim
scibed, of stamping up vessels by a mode of operation in which the
bettom is stamped up first and the sides are then formed or drawn in scribed, of stamping up vessels by a mode of operation in which the
bettom in stamped up first and the sides are then formed or drawn in
successive lengths by means of dies, substantially as set forth; and this successive lengths by means of dies, substantially as set forth; and this
I claim whether the vessel be entirely finished by this new stampin
process, or whether it be completed by a spinning process, subsequen
thereto,
79.-J. R. Robinson, of Boston, Mass., for an Improvement n Steam Boiler Furnaces. Patented March 5, 1861 : I claim, first, The gars-mixing chamber, B, constructed in the rear of
the bridge well, C, with a covering arch, F , and openings, d d, in the sald arch, substantially as described. with one or more trunks, e, or
Second, Providina a biler furace with
equivalit independ ent outletf rom the fre chamber for the exit or the lighter gases of combustion, substantially as specified.
Third, The combination of one or more truks, e, with a gas-mixing
chamber, $B$, substantially as specified.
80. -John Brayley, of Buffalo, N. Y., administrator, and
Mary Pitts, of Buffalo, New York, administratrix, of Mary Pitts, of Buffalo, New York, administratrix, of July 4, 1854 :
I claim, frist, So combining an internal gear main driving wheel
with two pinlons working at diametrically opposite sides therentat as
that the sad main wheelmay move in a direction transverse to that of that the sadd main wheelm may move in a direction transverse to that, of
a line drawn throughsid pinions, tor the purpose of allowing said
main wheel to automatically adjust itself to said pinions, substantially as and for the purpose set forth.
Second, Hanging the pinions of a double-geared horse power in ad-
justable bearings, so that they may be set close mesh with the main or justable bearings, so that they may be set close mesh with the main or
master wheel, substantiall as described.
Third In so combining the pinions and bevel wheels upon one shaft
n pairs, and supporting them in aadustable bearings, as that their
shafts may be kept in a perpendicular position, whilst the two gears
are made adustable to the respective whieels that they mesh with, sub-
stantially as described. stantially as described.
Anson Atwood, of Troy, New York, for an Improvement in Cast Iron Wheels for Railroad Carriages. Patented March 20, 1847; re-issued June 9, 1857 : I claim the connecting of the rim of the wheel with the hub in cast
iron car wheels by means of two curved plates, starting from near the ends of the hu b and joining at a part of the distance betwe en it and the
rim, thus foming h hollow ling or arch ar ound the hub and ioning
said ring with the rim by a single plate, or its equivalent, for the uses
and purpose
Anson Atwood, of Troy, N. Y., for an Improvement in Cast ron Wheels for Railroad Carriages. Re-issued Sept 22, 1857
Iclaim connecting the rim of a wheel cast in one piece with a solid fanch or flanches of the hab, forming a ring concen tric with the rim
of the wheel, substantially as described, whereby the several parts can
yield to the unequal contraction in all directions without serious strain
Anson Atwood, of Troy, N. Y., for an Improvement in Cast Iron Wheels for Railroad Carriages. Re-issued Sept. Iron Whee
I claim a cast iron disk, corrugated in the manner substantially as
and for the purposes described, when used in connection with the
chilled rim of a cast iron wheel
P. W. Gates, of Chicago, Ill., for an Improvement in Dies for Cutting Screws. Re-issued May 7, 1847:
I claim the forming of such dies of one solid block, in such manner as
that they shall cut a perfect serew by the once passing of it along the
piece to be cut, this being effected in the manner set fort
 to the lower face thereof at which part the last terminating threader is
obliterated, and by the fing away of a iarge portion of the threads, as
shown at $B$ B, and by the curves, e a and f m; the cutting ed ges being shown at $B$ B a and by the curves, e m and and m; the cutting ed ges being
alsofurnshed writh hroats for the escape of the cuttings, as made
known and repesented, and the whole apparatus being arranged, com.
bined and operating substantially in the manner and for the purrose
set forth. bined and
set forth.

DESIUN.
arretson Smith and Henry Brown (assignors to Liebrand \& McDowell); of Philadetphia, Pa., for a Design for Note.-Thenumber of patents issued on the 14th of May, and r ported above, amounts to seventy-one; out of this number, TWENT

## 

R. W., of N. Y.-The centrifugal gun of Robert McCarty, of this city, which has recently been brought prominently before the public, was patented on the 1 st of December, 1838. The patent ha therefore expired. D. J. Martin, of Louisville, Ky., obtained
ent for an improvement on this gun on the 3 of August, 1840 .
O. C. K., of Conn.-Bronzing powders are mostly made in Germany, from compositions of tin. You may use themmixed with any varnish, then burnish them whendry, or you may put on the varnish first, and dust the powder on the top.
C. O. G., of Wis.-You can make your floor perfectly water-tight by placing a cement in the same, composed of white lead and pounded glass. Or, if you cannot obtain pounded glass, use dry-slaked lime as a substitute. It must be allowed to dry perfectly before you use water to wash it. The cement should be applied about the consistency of putty
J. M. H., of N. Y.-A very good cement for fastening glass glue and pla wooden frames is composed of a strong solution of then add the plaster until the composition is of the proper thickness. Apply this cement quickly, as it dries rapidly.
H.S., of Mass.-In our description of firing with Hotch kiss' shot, wherein it is stated that the iron cannon used was $21 / 2$ inches bore and 4 inches long, there is a misprint. It should hav been $4 f$ fee long.
J. A., of Ill.-Puddled steel is allowed to be at least twice as strong as cast iron. We know not where you can obtain castings of this metal, varying from five to twenty-five poundsin weight. In a cago.
W. de S., of Pa.-Address the Secretary of the Navy for the Report of Naval Engineers.
T. McEl. H., of Wis.-A metal roof, if put on properly, is certainly better than one of cement. A good cement roof, however to ether forone hour at least, then stir in some perfectly dry, sirte lime until it becomes of the proper thickness. Put it on hot upon felt or thick tar paper, and cover the whole with dry sand and fin gravel. Lay it on in successive coats of about three square yards a once, and beat the gravel on the top with a shovel.
W. J., of Cal.-On page 275, Vol. X. (old series), of the Scientific American, you will find a recipe for destroying red ants. some powdered sugar over it so as to fill the pores. Now place it in the vicinity of the ants' nests, and in a short period it will be fille the vicinity of the ants ${ }^{\prime}$ nests, and in a short perio it will be flled
with the insects, when it should be lifted and plunged into a vessel of boiling water. Pursue this system persistently, and you will ultimately rid your premises of these pests.
L. K., of $\mathrm{Pa} .-A$ preparation of india-rubber and cork called "kamptulicon," was experimented with as a protective coating for iron ships in 1850. You will find a brief description of these ex periments on page 62, Vol. VI. (old series), of the Scientific Ameri
H. S., of Mass.-A 12 -pound rifled cannon shot measures $3 \frac{1}{4}$ inches in diameterat the base, and is conical shaped.
W. W. B., of Pa .-We have received a great many com munications on thesubject of aerostation, but have published only
those which we supposed would interest our readers. We wroteyou a long time ago that we should probably not publish your communi
I. C., of N. Y.-When we find some deflnite and authenti intelligence in regard to the gold of Nova Scotia we shall publish it.
J. E. B., of Ohio.-The best pale varnish for carriages is made by mixing $21 / 2$ gallons of hot boiled linseed oil with 8 pounds of sulphate of zinc should be added slowly to the mixture, and the whole boiled until it becos string It is next thinned down with turpen tine, foruse. This varnish dries in about 4 hours in summer, and is used for the outside work. It is durable and quick.drying.
G. E. S., of IIl.-Mr. Fairbairn, of England, is the author of a work on iron bridges. You could obtain it through some import ing house, such as J. Wiley, or Balliere Bros., this city
E. L., of Pa.-The experiments of Mr. Charles H. Haswell, of this city, have shown that the dynamical effect of a falling and by 4.426. A weight falling 80 feet would have a velocity, in round numbers, of 72 feet per second, and if its weight were 3,000 cound numbers, of 72 feet per second, and if its weight were 3,000
pounds, it would compress a spiral spring to the same extent as a pounds, it would compress a spiral spr
weight of 954,000 pounds resting upon it.
H. G. G., of N. Y.-Carbonic acid gas is heavier than atmospheric air, still it does not fali and occupy the lowest stratum of the atmosphere, owing to a singular property which gases have of mixing together. When two gases of different densities are placed
in the same vessel, though the heavier one be at the bottom, it is in the same vessel, though the heavier one be at the bottom, it is found that they gradually mingle completely together, forming a homogeneous mixture. The particles of gas are so far apart that ry 1 same bat rendering it more slow.
D. H. S., of Conn.-D. Appleton \& Co., of this city, published a work on mechanical drawing, a fewyearsago.
M. K., of Ill.-To practise drilling an artillery company of volunteers, if you aregoing touse heavy cannon-say 24 -poundersThey can be cast of iron; any foundry cando it. But if the com-
pany is io be of flying artillery, you want brass 6 .pounders. These pany is io be of flying artillery, you want brass 6 -pounders. These are expensive, but as the metal would always be valuable, the expense would be little more than the interest on their cost. Dahlgren
guns are very heavy for stationary batteries, and are unsuited for guns are very h
field perations.
C. H. G., of Vt.-We believe that Wesson has ceased to manufacture rifles, but the same style of gun is made under the Clark patent by James, of Utica.
A. B. W., of N. Y.-The proportion of the feed pump or cylinder of an air engine to the working cylinder will depend on the temperature at which the air is used. Atmospheric air, like other gases, expands 1.493 of its bulk at $35^{\circ}$ for each degree that its temperature is raised ; that is, it takes an increase of $493^{\circ}$ to double its bulk.
E. F., of Wis.-A process has been patented by A. Steers, of this city, for extracting the tannin from bark, whereby it is obtained in a very concentrated form for tanning leather. We have been informed that the extract retains all the qualities of the bark for tan-
J. P. \& L. S., of Ind.-There can be no lime in the steam which you employ for heating your dyestuffs, and y
blame the steam for the bail colors in your dye house.

## Money Received

At the Scientific American Office on account of Patent offce business, during one week preceding Wednesday, May 29 , 1861:-
B. \& R., of Ohio, $\$ 15 ;$ M. D. W,, of Ind., $\$ 25 ;$ A. \& H., of Cal., $\$ 25$; E. L. E., of Conn., $\$ 15$; A. \& C., of N. Y., $\$ 400$; W. P., of N. Y., $\$ 15$; S. M. R., of Mass., $\$ 15$; L. \& P., of Pa.. $\$ 31$; J. O. F., of Mass., $\$ 25$;
J. A., of Pa., $\$ 25$ D. D. F., of Mass., $\$ 25$; E. D. W., of Pa. $\$ 43$; L. D. B., of N. Y., $\$ 20 ;$ A. C., of N. H., $\$ 20$; E. C. W., of N. J., $\$ 43$; H. L. B., of Conn., $\$ 20 ;$ H. W. I., of C $\bullet$ nn., $\$ 20$; W. B. S., of N. Y.,
$\$ 25 ;$ A. W., of Vt., $\$ 25 ;$ A. S., of N. Y., $\$ 30 ;$ R. McC., of N. Y.. $\$ 25 ;$ $\$ 25 ;$ A. W., of Vt., $\$ 25 ;$ A. S., of N. Y., $\$ 30$; R. McC., of N. Y.. $\$ 25$;
F. N., of Conn., $\$ 30$; E. A. K, of Conn., $\$ 15$ D. E. T., of N. Y., $\$ 15$; J. C., of Pa., $\$ 25 ;$ W. D., of Mo., $\$ 10 ;$ L. \& W., of Mass., $\$ 25$; W. $\&$
M., of N. H., $\$ 40$; C. Van N., of N. Y., $\$ 20$; W. J. S., of N. Y., $\$ 22$; N. C. P., of N. H., $\$ 20$; S. A. B., of Conn., $\$ 20$; W. S. K., of Conn.,
$\$ 20$; G. L. K., of Pa., $\$ 15 ;$ M. W. M., of N. Y., $\$ 15 ;$ M. A. D., of Mich., $\$ 20$; G. L. K., of Pa., $\$ 15$; M. W. M., of N. Y., $\$ 15 ;$ M. A. D., of Mich.,
$\$ 12$ U. B. V., of Pa., $\$ 25$; W. N. D., of Cal., $\$ 35$; A. H. T., of N. J., 12; U. B. V., of Pa., $\$ 25$; W. N. D., of Cal., $\$ 35$; A. H. T., of N. J.,
$\$ 40$; D. McK., of N. Y., $\$ 15$; J. W.C., of Mich., $\$ 30$; L. D. G., of N. ., $\$ 20$; T. S. \& T. W.R., of N. Y., $\$ 25$; A. C., of Mass., $\$ 10 ;$ A. M. H., of Conn., $\$ 20$; J. R. R., of Mass., $\$ 40$; E. F. H., of N. Y., $\$ 20$;

Specifications and drawings and models belonging to parties with the following initials have been forwarded to the Pat ent Offlce from May 22 to Wednesday, May 29, 1861:-
D. B. S., of Mass.; M. D. W., of Ind.; A. W., of Vt.; C. K. H., of
Cal.; J.L.T., of N.Y.; F. N., of Conn.; U. B. V., of Pa, L. of Mass.; J. A., of Pa.; E. C. W., of N. J.; T. C., of Cal.; R. McC., of N. Y.; A. N. R., of N. Y.; W. H. D., of Cal.; J. C., of Pa.; T. S. \& T. W. R., of N. Y.; D. P. F., of Mass. ; E. D. W., of Pa.; J. H. F., of Ky.; M. A. D., of Mich ; W. D., of Mo.; A. C., of Mass.; J. H. L., of Pa. J. A., F., of Mass. ; W D., of R. I.

## TO OUR READERS.

Models are required to accompany applications for Patents under the new law, the same as formerly, except on Design Patents, petition, specification and oath, except the government fee
Patent Claims.-Persons desiring the claim of any inven tion which has been patented within thirty years, can obtain a copy by and of the entee and dale copying. We can also furnish a sketch of any patented machine issued
since 1853, to accompany the claim, on receipt of $\$ 2$. Address MUNN $\&$ CO., Patent Solicitors, No. 37 Park Row, New York.
Binding.-We are prepared to bind volumes, in handsome covers, with illuminated sides, and to furnish coversfor other bind ers. Pricefor binding, 50 cents. Price for covers, by mail, 50 cents by expris
New Paxphlets in German.-We have just issued a revised edition of our pamphlet of Instructions to Inventors, containing
a digest of the fees required under the new Patent Law, \&c., printed a digest of the fees required under the new Patent Law, \&c., printed
in the German language, which persons can have gratis upon appliin the German language, which persons can have gratis
cation to this Jflce. Address MUNN \& CO.,

No. 37 Park-row, New York:

