We claim the cams, d d, on the wheel, H, the adjustable bar, K, the hell crank, J, and the rod, m, arranged and operating substantially as described for the purpose set forth.

69,527.—STEAM SAFETY VALVE.—J. N. Wrigley and George Smith (assignors to John N. Wrigley), Newark, N. J. 1st, I claim the construction and arrangement in the shell, A, of the stationary valve, B, movable valve seat, C, substantially as herein set forth for the purpose specified.

24. The construction and arrangement of the shell, A, stationary valve, B, movable valve seat, C, seem, E, and lever, F, substantially as described for the purpose specified.

69,528.—BOOTS AND SHOES.—B. C. Young, Boston, Mass.
I claim a boot having buttons or knobs securely fast-ned to and projecting from the opposite outer surfaces of the leg near the top thereof, or in such position that by applying a fore finger under each button or knob, and a thumb to the inner surface opposite said button or knob, the boot may be securely grasped to pull it on the foot, substantially as set forth.

69,529.—HARVESTER.—Elijah Young, Fayetteville, Mo. I claim the adjustable disk, e4, in combination with the spring pa the ratchet, substantially as described and set forth.

REISSUES.

2,767.—RAILROAD CHAIR.—John McMurtry, Lexington. Ky., assignee of J. A. Roebing and J. McMurtry. Patented Oct. \$1,1865.

1st, I claim a solid block of cast iron or steel of sufficient length to rest on two or more sleepers and constructed as described, in combination with a plate of iron or steel of like length, fitted on the opposite side of the rails and secured to said block and rails in the manner and for the purpose specified, 2d, I claim further a plate of iron or steel of such length that it will rest on two or more sleepers, in combination with a like plate fitted on the opposite side of the rails, both being constructed and connected as and for the purposeset forth.

possest forth.

3d, I also claim the vertical flanges pendant from the inner edge of the bases of the two plates, in combination with said plates, substantially as and for the purpose described.

2,768.—Breech-loading Fire-arm.—Wm. H. Miller and

the face plate, b, oscillating breech piece, B, and catch, i, substantially as described.

2d, We also claim the combination of the swinging breech piece catches.

described.

2d. We also claim the combination of the swinging breech piece, striker, and detent, operating together as and for the purpose described.

3d. We also claim the plate ejector, F, with its shoulders, stop, and finger, when hung loosely upon and constructed in its movement; solely by the plvot pin of the swinging breech and moving around the same center with it and operated by the inserting of the cartridge and the swinging of the breech, in the manner substantially as described.

2,769.—PUTTING UP POWDERS, ETC.—Henry Sawyer, Rox bury, Mass. Patented Jan. 5, 1864.
I claim a package or case which when made with distributing holes and filled, is cemented by the wax or water, e, as set forth.

DESIGNS.

2,792.—TRADE MARK.—Thomes Bakewell, Pittsburgh, Pa. 2,793.—STATUETTE.—Hammatt Billings, Boston, Mass. 2,794.—Spoon Handle.—Luther Boardman and Norman S. 2,795.—SPOON HANDLE.—Luttler Boardman and Norman S. Boardman, East Haddam, Conn.
2,795.—Watch Plate.—Alfre Gerard, Somerset county, N. Y.
2,796.—Range.—S. W. Gibbs, Albany, N. Y.
2,797.—Trade Mark.—Stuart Guywn, New York City.
2,798.—Sewing Machine.—T. C. Page, Chicopee, Mass.
2,799.—Woven Fabrics.—William B. Weeden, Providence, R. I.

PENDING APPLICATIONS FOR REISSUES.

Application has been made to the Commissioner of Patents for the Reissue of the following Patents, with new claims as subjoined. Parties who desire to oppose the grant of any of these reissues should immediately address MUNN & Co., 37 Park Row, N. Y.

Geo. W. Miller, West Meriden, Conn. Patented Dec. 26, 1865.
We claim, 1st, The latch, E, arranged and operating in combination with 54,432.—HEAD BLOCK FOR SAW MILLS.—Simon F. Stanton

(assignee of J.M. and S. F. Stanton), Manchester, N. H. Dated May 1, 1866. Application for reissue received and filed Sept. 19, 1867.

Application for reissue received and filed Sept. 19, 1867. I claim the combination of the graduated notched guide, R, and vibratory lever, Q, with its pawl and ratchet wheel, P and O, or the equivalent thereof, for moving the uprights different and determinate distances by the simple movement of the lever, substantially as and for the purpose herein specified.

I also claim the combination and arrangement of the pinions, D DD, and double setts of racks, b b b and c c c, for moving the uprights by the turning of the shaft, E, substantially as herein set fortb.

I also claim the construction and arrangement of the shaft, E, sections, coupled by clutches, F F, which may be connected or disconnected at pleasure, substantially as and for the purpose herein specified.

I also claim the screws, J J J, arranged upon the upright and operating substantially as and for the purpose herein set forth.

I also claim the dog apertures in the uprights for the reception of horizontal dogs, substantially as described.

I also claim the claim hooks or dogs, M M M, arranged and operated sub; stantially as and for the purpose herein set forth.

60,342.—TAP BORER.—W. A. Ives & Co., New Haven, Conn., assignees by mesne assignments of Silas S. Crocker, Maquoketa, Iowa. Dated Dec. 11, 1866. Application for reissue received and filed Sept.25,

I claim, ist, A borer constructed from a plate curved so as to form a con-ical-shaped instrument, one edge projecting slightly above the other, the salient edge sharpened while the other forms a guide and the space between the two edges of the throat of the instrument combined with a gimlet point, whether the edge be spiral or straight. 2d, The volute-shaped tool with a sharpened salient spiral edge with or without the gimlet point, substantially as described.

Note .-- The above claims for Reissue are now pending before the Pat. ent Office and will not be officially passed upon until the expirationo/30 days from the date of filing the application. All persons who desire to oppose the grant of any of these claims should make immediate appli-cation to MUNN & CO., Solicitors of Patents, 37 Park Row, N. Y.

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The value of the SCIENTIFIC AMERICAN as an advertising medium cannot be over-estimated. In circulation is ten times greater than that of any similar journal now published. It goes into all the States and Torritories, and is read in all the principal libraries and reading rooms of the world. We invite the attention of those who wish to make their business known to the annexed rates. A business man wants something more than to see his advertisement in a printed newspaper. He wants circulation. If it is worth 25 cents per line to advertise in a paper of three thousand circulation, it is worth \$2.50 per line to advertise in one of thirty thousand.

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THE MAGIC SCALE—A New Thing— Send for Circular, H. MARANVILLE, Akron, O.

BALLAUF, MODEL' MAKER, No. Orders for Certified Duplicates of Patent Office Models and Original Models for Inventors.

WANTED—Correspondence with a gen-tieman with capital and experience, to take an in-terest in erecting and running asplaning factoryon mod-erate scale. J. E. S., Evening Shade, Lawrence Co., Ark.

AUTION.—Beware of Imitations of Winans' incrustation or Boiler Powder. This article has been successfully used for 12 years past, and is now largely pirated. A positively harmless and reliable remdy for incrustations. H. N. WINANS, 11 Wall st., N. Y.

WANTED—SAW MAKERS—Two first-VV class workmen accustomed to work on "BIG CIR-CULARS," to whom good wages will be given, by FAILEY & SINKER, 16 2] American Saw Works. Indianapolis, Ind.

DOUBLE MOTOR IN SAME SIZE, with same number of revolutions in the "Going Barrel." Keynole for Hunter style; runs longer before it wears out of repair. Guaranteed. Must be sold before explained. Address J. MUMA, Hanover, Pa.

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MILLING MACHINES—Of Improved construction, great power, large capacity, unrivalled convenience of adjustment. Also, Pipe Vises, with and without extra jaw, and Vises of all sizes for heavy and light work. Send to Union Vise Company, of Bost in, for illustrated circular.

THE BEST BOLT CUTTER IS MERRI MAN'S PATENT—Which cuts a full, smooth thread at once passing over the bolt. The dies revolve, are instantly adjustable to the slightest variation, and open to release the bolt. Foreign Patents for sale. Send for circulars.

H. B. BROWN & CO.,
New Haven, Conn.

Prof. H. DUSSAUCE, Chemist, is ready to furnish the most recent methods of manufacturing Vinegar by the slow and quick processes, with and without alcohol, directly from corn. Also, process to manufacture vinegar and acetic acid by distillation of wood. Methods of assaying vinegars. Address

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WANTED, an Agent—One chance in each ANTED, an Agent—One chance in each town, worthy the attention of an active business man, to take the agency for the sale of Bradstreat's Independent on the sale of Bradstreat's Independent on the sale shottom, top, andeenter of doors and windows. The sale is beyond anything ever offered before to an agent, and from \$10 to \$25 per day can be made. Send for agent's circular. The first who apply secure a bargain. Terms for Molding, eash. J. B. BRADSTREET & CO., Boston, Mass. 16 13

PAPERS WANTED.—Persons having back Volumes of the Scientific American or American Artizan are requested to address Hudson & McCarty, Advertising Agents, 29 Park Row, N.Y., stating price, date, and No. of each Vol.

WANTED.—Agents everywhere, Male or Female, tosell an article that is wanted in houses, stores, offices, factories, vessels, steamboats, Good induce-ments offered. Address J. J. PIKE & CO., Chelsea, Mass.

ABORATORY of INDUSURIAL CHEM-ABOURATOR I OHINDUSURIAL CHEMI-istry.—Advices and Consultations on Chemistry ap-plied to Arts and Manufactures, Metallurgy, etc. Plans of Factories, Drawings of Apparatus, analysis and Com-mercial Assays. Informations on every kind of Chemi-cal Fabrications. Address Prof. H. DUSSAUCE, Chem-ist, New Lebanon, N. Y,

POREMAN WANTED IN MACHINE SHOP, at the Bennington Machine Works, on or before January 1st, 1883. The right man can have a permanent satuation, with good pay, and an interest in the business if required. One of the oldest and best concerns in the State; build Gunpowder and Paper Machinery; employ about 20 hands in Machine Shop; business about \$100,000 per annum; Proprietors all mechanics. Address, mmediately, for further information, O. & H. W. SCOTT. Bennington, Vt., Sept. 28, 1867.

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A RULLMANN'S Medicamental Elixer, examined, approved, and parented, by the United States Patent Office, and founded on 61 years experience
An infallible remedy for stomach cramps, bowel complaint, diarrhœa, billousness, intermittent fever, weak, sick, or disordered stomach, pain in the forehead, offensive breath, itching piles, acrimony, worms, want of appetite, and allevils created by an unhealthy stomach; also a preventative and sure curefor cholera and sea sickness. Price \$1 per bottle. For sale at 613 Fourth avenue, New York. Druggists, hotel keepers, and restaurants, allowed a liberal discount. Responsible agents wanted for every State in the United States.

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WILL BE SOLD AT PUBLIC AUCtion, at the Depot of Army Clothing and Equipage;
10 viclock A. M., to be continued from day to day, the following articles of Army Clothing and Equipage;
1,211 Rubber do.
5,058 Do. Ponchos.
64.45 Perged Bootees,
pairs.
21,641 Woolen Blankets.
7,211 Rubber do.
5,058 Do. Ponchos.
64.45 Perged Bootees,
pairs.
23,650 Hand-sewed Bootes,
pairs.
24,662 Great Coats, horse.
105,992 Do. of foot.
25,418 Gray flannel Shirts.
69,999 Domet Shirts.
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134 Unif. Coats, Art.
Musicians.
22,559 Do. do. Art. trimmed.
232 Jackets, Cav. do.
262 Unit. Coats, Englneers.
26 Do. do. Ordnance.
27,121 Hat Cords, Inft.
460 Do. do. Art. Music.
27,121 Hat Cords, Inft.
460 Stewards.
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Musicians.

824 Jackets, Cav. do.
262 Unit. Coats, Engineers.

90. do. Ordnance.
316 Do. do. Art. Music.
910. do. Inft. do.
10,000 Musketo Bars.
226325 Kapsacks.
3,959 Do. Straps, sets.
100,201 Haversacks,painted.
2250 Do. unpainted.
2250 Lotton Overalls.
1,943158 Hat Numbers.
1,9425 Cotton Overalls.
1,949158 Hat Numbers.
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1,022 Do. Bugles, Non.
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4383 Fites.
21 Red Hair Plumes.
4364 Hosp.Stewards' Letters U.
4368 Fites.
21 Red Hair Plumes.
4368 Axes, felling.
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16,035 Axes, felling.
16,005 Do. Handles.
16,005 Carten Straps.
1544 Sbovels.
55 Catteen Straps.
66,308 Mess Pans.
20 Camp Color Staffs.
25 Catteen Straps.
66,308 Mess Pans.
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14 Turbans, Zouave. 963 Wall Tent Poles, sets.

21 Ged Hair Plumes.
13,003 Floktaxes.
16,825 Do. Handles.
16,836 Axes, felling.
6,069 Do. Handles.
16,616 Do. Slings.
33,597 Hatchets:
24,999 Do. Handles.
15,548 Shovels.
5,547 Stove Pipe, pieces
2 Camp Color Staffs.
2 Canteen Straps.
63,308 Mess Pans.
2 Sibley Tents.
3 Marque Tents.
43 Milospit. Tent Poles, sets.
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43 Marque Tents.
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The undersigned is making improved Iron Lathes for the manufacture of large Steam Fittings, Globe and Safety Valves, Cocks, and Flanges—the only Lathes built expressly for this purpose. Also, Traverse Drills, Brass Lathes; Chucks, Rests and Patent Cast Iron Taper Reamers for Steam and Water Cocks. Steam Engines from 4 to 40-Horse, with Patent non-explosive Steam Generators.

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OUPERIOR PATENT Engine Lathes, Up-right Drills, Planer Centers which will swing 9, 15, 18, 22, and 24 inches, Heywood Patent Chair Lathes, Patterns UPERIOR PATENT Engine Liables, Op-right Drills, Planer Centers which will swing 9, 15, 18, 22, and 24 inches, Heywood Patent Chair Lathes, Patterns and Models for all kinds of Light and Heavy Machinery, Iron Gear Cutting done, varying in diameter from 4-in-to 8 feet, Cutiery Machinery from improved patterns, THOMAS IRON WORKS, Worcester, Mass. FIRE-BRICK MANUFACTURERS. — I Western Manufacturers' correspondence preferred. Address J. A. BAUSMAN, Brick maker, Boonsboro, Iowa.

DUNHAM'S Improved Nut-Forging Machine is unequaled in simple that the most perfect working machine in use. Rights for sale. Address [15 8*] GEO. DUNHAM, Unionville, Conn.

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BELTING — One Roll (150 feet) 18-in.

Double Leather Belting for sale low by
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South and Pennsts, Philadelphia.

TURBINE WATER WHEELS.-Luther's Direct and Reacting Turbine Wheels man ufactured and for sale by the NOVELTY IRON WORKS Foot of East 12th st., N. Y. Send for Circular. 13 25*

OOK HERE!—Don't fail to send for Illustrated circular of Robbins' Alarm Money Drawdress ROBBINS, FRONTZ & CO.,
Patented Sept. 3d, 1867.

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FUEL Economized and Power Increased by CARVALHO'S PAT. STEAM SUPER HEATER. Guaranteed to remedy "priming," save a large percentage of faci, and turnish pure, dry steam, of any required temperature, is easily attached to boilers, very durable, and pays for itself in a few mouths. Address HENRY W. BULKLEY, General Agent, 70 Broadway, N. Y. 18 12*

STEAM ENGINES WITH

TEAM ENGINES WITH

NON EXPLOSIVE STEAM GENERATORS

2 15 Horse-Power, with Generators.

2 10 " " second-hand.

4 5 " " with or without Generators.

The above Engines, after a severe test as to power and economy, took the highest prize (Gold Medal,) at the Mechanics' Fair in Bosica, and medal at Fair of American Institute, New York. Just the Engine to send West or South, being easily packed in small spice, without danger of breaking. Address

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