







wheels, B, the whole being arranged and combined to operate as and for the purpose set forth.

[By employing a rake, hoe blades, or shares, and a parting or delecting bar attached to a mounted frame having a handle secured to it, a device is obtained that may be shoved by a man between the rows of crops under cultivation, and the soil pulverized and the weeds eradicated.]

25,067.—J. F. Waterhouse, of Germantown, Pa., for an Improvement in Knitting Machines:

I claim, first, The application of a drum, 5, or its equivalent, with detachable pegs, to operate a series of independent thread guides having independent springs, when constructed and operating substantially as set forth and for the purposes specified.

25,068.—J. A. Wilkinson, of Brooklyn, N. Y., for a Machine for Receiving and Piling Paper:

I claim, first, The accelerating bands, a, b, and roller, c, arranged and acting as set forth, to project the sheets of paper successively over each other, as they subside in the air, and in combination with the foregoing parts, I claim the endless apron receiving such sheets as specified.

25,069.—J. A. Wilkinson, of Brooklyn, N. Y., for an Improvement in Rotary Presses:

I claim, first, The curved demi-rod, c, with the sliding clamp 6, and lip, 5, for the purposes as specified.

25,070.—Eri Wills, of Augusta, Maine, for an Improvement in Stump-Extractors:

I claim the combination of the frame, O, tongue, P, and shaft, A, with the wheels, R, R, ratchet-devices, H G I, levers, F F, and chain, B, constructed and arranged in relation to each other as and for the purposes set forth.

25,071.—A. P. Winslow, of Cleveland, Ohio, for an Improvement in Roofs for Railroad Cars:

I claim the plates, D, caps, F, and grooved-rafters, B, when arranged substantially as set forth for the purpose described.

25,072.—J. F. Wisniewski, of Cincinnati, Ohio, for an Improvement in the Preparation of Glycerine:

I claim the employment or use and introduction of the withinnamed chemicals, in the relative quantities, manner and combination described for the purposes set forth.

25,073.—Edward F. Woodward, of Brooklyn, N. Y., for an Improvement in Skeleton-skirts:

I claim the sectional extension skirt, when combined and attached to the circular skirt, the whole being arranged and constructed in the manner and for the purpose set forth.

25,074.—Albert H. Wright, of Camden, N. J., for a Composition of Matter for Ornamental Purposes:

I claim the composition of the matter described, the same consisting of the clay and sulphur with the mercury, or its substitute, combined together substantially as and for the purposes described.

25,075.—John K. Wright, of Philadelphia, Pa., for a Machine for Printing in Different Colors:

I claim hanging the rollers used for printing separate colors and patterns on separate frames, D, E, and constructing and arranging the said frames so that they may be adjusted independently of each other on the shafts, B, as and for the purpose set forth.

25,078.—R. Eickemeyer, of Yonkers, N. Y. (assignor to himself and E. Underhill, of same place), for an Improvement in Sewing-machines:

First, I claim the combination of the angular supporting-plate, F, with the needle and arranged to work through an opening in the angle of the said plate, and obliquely to both faces of the said plate, substantially as described, for the purpose of sewing obliquely through any substance supported in the angle of said plate.

25,079.—Asahel Elmer (assignor to Nathan Elmer and R. M. Pritchard), of Shabbona Grove, Ill., for an Improvement in Portable Capstan and Crabs:

I claim, first, The compound wing described, consisting of the wing proper, a, the lever, f, and the pin and slot at g, the whole being combined, arranged and operated substantially as herein set forth.

25,080.—Isaac Goodspeed, of Norwich, Conn., assignor to himself and Geo. A. Mansfield, of Boston, Mass., for an Improvement in Bomb Lances:

I claim, first, The compound wing described, consisting of the wing proper, a, the lever, f, and the pin and slot at g, the whole being combined, arranged and operated substantially as herein set forth.

25,081.—Louis Koch (assignor to himself and H. Fors-trick), of New York City, for an Improved Railroad Station Indicator:

I claim the apron or band, K, with the names of the streets or stations on the line of the route mark d thereon, attached to and working on rollers, I, I, or a revolving plate, or station plate and revolving index, when said apron, plate or index are operated from the running-gear of the car by suitable mechanism to give the same a continuous movement and simultaneous with that of the car, for the purpose set forth.

25,082.—Morris Pollak (assignor to Morris Talkenan, Morris Pollak and Solomon Weiner), of Hoboken, N. J., for a Double Clasp-hook for Watch-chains, &c.:

I claim the S-shape or double clasp hook formed by the disks, b b, and clasp-jaws, d d, on the center pin, c, that passes through the middle of the bent piece, a, substantially as set forth.

25,076.—Nathan Ames, of Saugus, Mass. (assignor to himself and Ward McLean, of New York City), for an Improvement in Revolving Stairs:

I claim, first, Arranging steps or stairs upon an endless belt, or in any manner equivalent, and placing them over rollers, substantially as described, so as to form a revolving flight of stairs, which may be used both as a common flight and as an elevator.

25,077.—L. S. Baldwin and Lucius Parks, of Leroy, N. Y. (assignors to L. S. Baldwin aforesaid), for an Improved Construction of Lightening-rods:

I claim the employment of a quadrangular tube of sheet-metal with spiral fluted sides, A, in combination with the straight central supporting-rod, B, substantially in the manner and for the purpose set forth.



G. M., Jr., of Ill.—An electric light, such as you describe, has been experimented with for a long time in our city, principally in regard to its application for light-houses. It has not yet been rendered perfectly practicable for this purpose.

S. R., of Mass.—If you run the piston of your engine at a velocity of 300 feet per minute, you will obtain the best results from it, we think. If the water in your boiler is clean, there is no necessity for running it off every three weeks.

E. H., of Del.—You state that the steel tool which you were grinding became quite hot at the end farthest from the stone, and remained cool near the point where it was being ground. If you employed water in grinding, it would carry off some of the heat generated at the point; if not, your hand must have acted as a non-conductor to retain the heat conducted to the end of the tool.

W. P., of Ohio.—It will require a pipe with one square inch of area to be 1,632 feet high, and filled with water, to overcome a press of 60 lbs. in a boiler. A column of water at the elevation exerts a press of 61 lbs., nearly, on the square inch.

A. D. B., of Pa.—The molds for smooth brass-castings are made of iron. Chilled iron-castings are also run in iron molds.

J. Z. W., of Vt.—It would be of no use to try to get circulars of all the moving and reaping-machines ever patented. So far as we know, compressed air has not been used for telegraphing, except by the use of the piston air-telegraph. The compression, however, was very limited.

J. R., of Del.—The bullets for the United States army are made out of solid metal by machinery, but we do not know how many are made per minute by one machine. All the cone bullets that we have seen were molded.

J. G. W., of N. Y.—We are confident that you cannot bleach coal-tar with chlorine, without altering its character in a measure; but you can easily make the experiment, at a very small cost.

J. G. W., of N. Y.—We have endeavored to account for all explosions by pressure, and the cases to which you have referred may be so explained. We refer you to the letter of Mr. Washburn, in another column, for confirmation of our views. We should be glad, however, to receive your explanation of the matter.

J. G. C., of Ala.—You will find the description of an ice-house on page 69, Vol. XIV., SCIENTIFIC AMERICAN.

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DESIGNS.

Robert Ham (assignor to Smith, Shelden & Co.), of Troy, N. Y., for a Parlor Stove.

E. J. Ney (assignor to the Lowell Manufacturing Co.), of Lowell, Mass., for Carpet Patterns. (Two cases.)

Isaac de Zouche, of St. Louis, Mo., for a Parlor Coal Stove.

N. E. Russell, of New York City, for a Table Fork.

DISCLAIMER.

William Blake, of Boston, Mass., for an Improvement in Gas-burners. Patented Aug. 9, 1845; disclaimer filed Aug. 5, 1859:

I hereby enter my disclaimer to that part of said burner which was set forth and claimed as the "ball shape or mouth of the lower part of the inner case of said burner."

EXTENSION.

William Blake, of Boston, Mass., for an Improvement in Gas-burners. Patent dated Aug. 9, 1845:

I claim the combining with the space, d d, directly beneath the orifice of discharge of the gas, and with the supply or branch tubes, f f, an extension, g, g, of number e, e, so as to operate in the manner and for the purpose set forth.

I also claim making the lower part of the inner case e of the burner with a bell-shaped opening or mouth, in the manner and for the purpose specified.

ADDITIONAL IMPROVEMENTS.

A. A. Richards, of Urbana, Ohio, for an Improved Lock. Patented Feb. 15, 1859:

I claim the arrangement of the spring, f, collar, a, ring, x, screw, u, brake-wheel, W, and arbor, S, in the manner above described, so as to produce friction between the ring, X, and wheel, W, and arbor, S, and also the arrangement of the brake, k, indented flange, W, and stem, a, as above described, so as to prevent the revolution of the wheel, W, and a bar, and ring, X, and the external dial hand, substantially as described.

Frederick Yeiser, of Lexington, Ky., for an Improvement in Instruments for Taking Altitudes of the Sun. Patented Feb. 8, 1859:

I claim, in combination with the rotary bar, E, the arrangement of the adjustable bar, F, and dial plate, R, and rotary cylinder, H, and adjustable disk, D, in connection with the bar, k, and plates, a, a, holding the lens, e, e, and having on its face a small square, 3, to receive the sun's image through the lens, in such relation to each other, and to the rotary bar, E, that it operates substantially as and for the purposes specified.

THIRTY-FIRST ANNUAL FAIR OF THE AMERICAN INSTITUTE, in the City of New York.—The Managers announce that the Exhibition will be opened at Palace Garden, in 14th-street, near the 6th-avenue, on September 21, 1859.

COBURN'S EXTRA OIL—FOR MACHINERY and burning; warranted first-rate (never runs, will burn in night lamps, &c.): has given 45th fraction for 100 years, during which we have sold it.

LEAVITT & CO., COMMISSION AGENTS FOR the Purchase and Sale of Machinery and Tools of all kinds. Orders by mail faithfully attended to. Send for our Circular. No. 37 Park-row (over Scientific American Office), New York.

PARAGON COAL OIL BURNERS.—TO MANUFACTURERS OF AND DEALERS IN COAL OILS, AND COAL OIL LAMPS.—The above burners are admitted to be the best in use as to strength, least liability to get out of order, and ease of management; giving a larger blaze than any other burner. Lamps with the above burners, suitable for hand, hall, hanging bracket and side lamps; also, for Railroad Stations, Steamboats and Public Buildings. The best Burning and Lubricating Oils, as well as Lamps, in quantities to suit purchasers, at the lowest market prices.