

RECENT AMERICAN INVENTIONS.

Locomotive Lamp.—I. A. Williams, of Utica, N. Y., has secured a patent for an improved locomotive lamp for burning coal oil.

Railroad Chair.—Francis A. Brown, of Ithaca, N. Y., has secured a patent for an invention relating to that class of railroad chairs which are attached to the ends of the rails between the sleepers.

Furrowing Machine.—The object of this invention is to obtain a machine of simple and economical construction, which will furrow or mark land in check rows, that is to say, with marks or furrows crossing each other at right angles, and perform the work by a movement across the land in one direction only.

The Age of our Earth.

We extract the following from Agassiz's article on "Methods of Study in Natural History," in the May number of the Atlantic Monthly:—

Among the astounding discoveries of modern science is that of the immense periods which have passed in the gradual formation of our earth. So vast were the cycles of time preceding even the appearance of man on the surface of our globe, that our own period seems as yesterday when compared with the epochs that have gone before it.

THE Inland Propeller Line from New York to Baltimore, connecting with the Baltimore and Ohio Railroad, make the trip through in about thirty-six hours.

INVENTORS and manufacturers of roller washing machines are referred to an advertisement of the Metropolitan Washing Machine Company in another column.



ISSUED FROM THE UNITED STATES PATENT OFFICE

FOR THE WEEK ENDING APRIL '29, 1862.

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** Pamphlets giving full particulars of the mode of applying for patents, under the new law which went into force March 2, 1861, specifying size of model required, and much other information useful to inventors, may be had gratis by addressing MUNN & CO., Publishers of the Scientific American, New York.

35,067.—Ethan Allen, of Worcester, Mass., for Improvement in Revolving Firearms: I claim, first, The combination of parts, m k and H, of lever, H being hung at the cock, substantially as specified and for the purpose set forth.

35,068.—J. F. Allen, of New York City, for Improvement in Steam Engines: I claim a cup slide valve, having formed in it a passage which is independent of the exhaust cup, and which opens on the face of the valve in front of and behind the said exhaust cup, in combination with an elevated seat, or one of equivalent form; when the said valve and seat are so arranged relatively to each other, that at proper times two passages are opened for the entry of steam into either end of the cylinder, substantially in the manner and for the purposes set forth.

35,069.—J. F. Allen, of New York City, for Improvement in Slide Valves of Steam Engines: I claim the employment of a slide valve, formed as specified, in combination with the described seat, when so arranged relatively to each other, that an opening, equal in breadth to twice the distance traversed in the same time by the valve, may be made into one end of the steam cylinder, in the manner, and for the purpose aforesaid.

35,070.—John F. Allen, of New York City, for Improved Link Motion of Steam Engines: I claim the combination of a single link motion, or its equivalent, as specified, with one or more steam valves and one or more exhaust valves; the steam valves having movements independent of and differing from those of the exhaust valves, when all the said valves receive their respective movements from the single link motion aforesaid, substantially in the manner set forth and for the purpose specified.

35,071.—John F. Allen, of New York City, for Improved Valve Gear for Steam Engines: I claim the combination of the valve-driving lever, a, and a single eccentric, or of their respective equivalents, when, substantially, in the manner described, the said lever receives from the single eccentric movements which are similar to the movements of the link in the Stephenson's link motion, adapting the device as a substitute for the link motion aforesaid, as set forth.

35,072.—S. A. Bailey, of New London, Conn., for Improved Wringing Machine Cylinder: I claim the employment of the rods, a a a, in combination with the shaft, A, and rubber cylinder, B, for the purpose of securing the rubber and preventing it from turning during the operation of wringing, as is fully set forth.

35,073.—L. W. Beecher, of New Haven, Conn., for Improved Fruit Basket: I claim using paper for baskets, instead of wood, or other material, fastening the same together with glue or other like matter, and coating the whole with varnish or other preparation that will withstand moisture, substantially as and for the purpose specified.

35,074.—Pardon Boyden, of Sandy Creek, N. Y., for Improvement in Snow Plows for Railroads: I claim the construction of the frame or body of the plow, as set forth, in which traverse two endless removers or elevators, which effectually deposit the snow clear of the machine and the railroad.

35,075.—Albert Brown, of Mifflinsville, Pa., for Improvement in Flour Packing Machines: I claim, first, The method of imparting rotary motion to the proper or other rotary flour packing device so as to allow of its rotation at variable elevations by passing the propeller shaft through the sleeve of the main gear wheel, said sleeve being provided with friction rollers impinging upon and working within grooves or ways arranged along the said shaft, substantially in the manner set forth.

35,076.—F. A. Brown, of Ithaca, N. Y., for Improvement in Railroad Chairs: I claim the employment of the central box, C, in combination with the chair, A, and supporting wedge, D, as and for the purpose shown and described.

35,077.—James Budd, of Sandy Hill, N. Y., for Improvement in Pumps: I claim, first, The two induction pipes, P' Q, in combination with the chamber, G', provided with the valves, G S, and all arranged substantially as and for the purpose set forth.

35,078.—E. F. Burrows, of Mystic River, Conn., for Improved Self-acting Brake for Railroads: I claim the combination of the toggles, E E F F, shoes, G, and rods, D, provided with the collars or stops, I, all being arranged and applied to the car or other vehicle, substantially as and for the purpose set forth.

35,079.—Lysander Button and Robert Blake, of Waterford, N. Y., for Improvement in Pumps: We claim the two pistons operating in one cylinder by means of the

two piston rods, one passing through the other, combined with and operated by the double crank, in the manner and for the purpose set forth.

35,080.—Gardner Chilson, of Boston, Mass., for Improvement in Dampers: I claim the arrangement and combination, substantially in the manner as described, of a perforated annular air valve, G, and its seat, B, with a damper, D, and a smoke pipe, A, containing such damper.

35,081.—Orlando Clarke and Isaac Utter, of Rockford, Ill., for Improved Evaporator for Saccharine Juices: We claim forming depressions, f, in the inclined rails, F, as described, for the purpose of tilting the pans and holding them in that position.

35,082.—J. M. Cook, of Taunton, Mass., for Improved Signal Mechanism for Locomotive Engines: I claim the described combination for ringing the bell by steam from the boiler the same consisting in the steam wheel, the hew hammer or striker and the gravitating tripper applied by means and so as to operate together, substantially as specified.

35,083.—James M. Cooper, of Pittsburgh, Pa., for Improvement in Railroad Axles: I claim, first, The use of a cylinder or longitudinal sections of a cylinder placed in, and nearly filling a space in the male axle, when fastened to the tubular or female axle, for the purpose of connecting together the male and female axles, substantially as described.

35,084.—Horace Daniels, of Pawtucket, R. I., for Improvement in Machinery for Dressing Sewing Thread: I claim, first, In combination with a revolving brush cylinder, a series of lifting or carrying rolls which turn with said cylinder, but may turn on their own axes independent of the motion of the cylinder, of which they are a part, substantially as described.

35,085.—Joseph Davenport, of Massillon, Ohio, for Improvement in Springs for Vehicles: I claim a vehicle spring made up of pairs of short sections of leaves, a, arranged around a common center and radiating therefrom and clamped between two disks at their inner ends and riveted or clamped together at their outer ends, all substantially in the manner and for the purpose described.

35,086.—F. Denzler, of New York City, for Improvement in Toy Breech-loading Firearm: I claim the described movable breech piece when said breech piece is held in its place by a bayonet joint, and is removed out of the breech for the purpose of receiving the charge and the percussion cap after each discharge of the gun.

35,087.—J. R. Dikeman and J. J. Hewlett, of Hempstead, N. Y., for Improvement in Machines for Marking and Furrowing Land: I claim the combination of a reel or revolving marker with shares or teeth, J, attached or applied to a frame mounted on wheels and arranged to operate substantially as and for the purpose set forth.

35,088.—J. B. Eads, of St. Louis, Mo., for Improved Turret for War Vessels: I claim making the turret, tower, or shield, F, that protects the wheel, a protection also to the pilot and lookout, one or both, substantially in the manner and for the purpose set forth.

35,089.—Isaac Edge, of Jersey City, N. J., and of C. C. Hyde, of Stonington, Conn., for Improved Mode of Firing Night Signals: We claim the described improvement in firing night signals, by means of the fulminate couch, a, fired by the self-acting rod, c, actuated by springs, f and g, and the piston, d, and the annular plate, h, through the agency of the button, e, the slot, i, and the socket, b, substantially as described.

35,090.—Jonas Farnsworth, of Lewiston, Maine, for Improved Window Washer: I claim the combination and arrangement of the piston, A, the cylinder, B, the head, D, with sponge, E, and rubber, F, substantially as and for the purpose specified.

35,091.—Henry Fletcher, of London, England, for Improvement in Crinoline Clips: I claim a crinoline clip with slots or holes therein for passing the suspenders through and connecting the expanders thereto, substantially as described.

35,092.—E. H. Funk, of Newark, Ohio, for Improved Evaporator for Saccharine Juices: I claim the construction and arrangement of the pans or kettles, G J, with relation to the furnace and to each other, for the purpose of evaporating and clarifying and converting into molasses the juice of sorghum, as described and represented, and these I claim, whether the part, K, be used in connection with them or not, as set forth.

35,093.—Lucian Gabel, of Richmond, Ind., for Improvement in Combined Sword and Pistol: I claim the arrangement of a pistol and sword so as to be used jointly or separately, in the manner fully set forth and described.

35,094.—A. J. Gove, of San Francisco, Cal., for Improvement in Faucets: I claim the combination of the hollow-truncated cones, A and B, and nozzle, D, the whole being constructed, arranged and operated in the manner substantially as specified, and for the purpose set forth.

35,095.—J. S. Hall, of Pittsburgh, Pa., for Improvement in Breech-loading Ordnance: I claim, in combination with the conical opening in the breech of a cannon, the vertical conical plug, or breech block, operating therein, substantially as described.

35,096.—S. T. Holly, of Rockford, Ill., for Improvement in Harvesters: I claim the arrangement of the guides of the rake carriage at an acute angle with the line of progression of the machine, so as to carry the rake further from the divider side of the machine, as it is moved backward on the guides, substantially as set forth.

35,097.—Alfred Ingalls, of Independence, Iowa, for Improvement in Machines for Upsetting Tires: I claim, first, The cams, ff, in combination with the jaws, D D, at