

Official List of Patents.

Issued by the United States Patent Office.

FOR THE WEEK ENDING DEC. 28, 1869.

Reported Officially for the Scientific American

SCHEDULE OF PATENT OFFICE FEES: On each caveat... On filing each application for a Patent... On issuing each original Patent...

Far copy of Claim of any Patent issued within 30 years... A sketch from the model or drawing, relating to such portion of a machine as the inventor claims as his own...

- 97,970.—BASE-BURNING FIREPLACE HEATER.—Samuel B. Sexton, Baltimore, Md. Dated December 14, 1869; antedated November 23, 1869. 98,216.—STEAM ENGINE GOVERNOR.—C. D. Allen, New York city. Antedated Dec. 24, 1869.

HORSE HAY FORK.—James Dampman, Lebanon, Pa.—This invention relates to improvements in locking devices for horse hay forks, and consists in a sliding block on the elevating rope, having a fixed and a pivoted jaw for engaging and holding the upper end of the tine...

AUXILIARY PROPULSION OF VESSELS.—John Bourne, London, England.—The object of this invention is to provide a propelling mechanism for sailing ships in calms or light winds, which mechanism, while of average efficiency, shall be capable of being readily put into or out of operation, so that it will, when not used, leave the ship in all other respects the same as if it had not been applied.

HOLLOW GRATE BAR.—George E. Turner, Chicago, Ill.—This invention has for its object to so construct the hollow grate bars which conduct air from below the fire to the products of combustion, that the unequal temperature to which it is subjected at different heights may not injuriously affect the same.

LAMP EXTINGUISHER.—S. W. Perkins, Geneseo, Ill.—This invention consists of a case capable of being slipped on over any ordinary lamp tube, and bearing two jaws, each provided with a weight and having a tendency to fold together upon the wick, so as to completely cover it when turned down, and thus extinguishes the flame; said jaws being readily separable by the wick as it is turned up by the ratchet wheel to be lighted.

STEAM ENGINE.—C. C. Waggoner, St. Johns, Ohio.—This invention consists in a novel and peculiar mechanism for shifting the valves, whereby the operation may be performed in one sixteenth of the time of the stroke.

PNEUMATIC CENTRIFUGAL POWER REGULATOR.—Charles A. Sullivan, Starkville, Miss.—This invention relates to means for regulating the evolution of a spring driver, and to preventing a useless and too rapid expenditure of its power. The invention consists in certain combinations and arrangements of auxiliary mechanism to restrain the actuating power, which, together, constitute the pneumatic centrifugal power regulator.

CARRIAGE SPRING.—Daniel Shockey, Waynesborough, Pa.—This invention relates to a spring apparatus in which the cross bars on which the carriage immediately rests, move on vertical guide bars projecting from the axles, and springs are interposed to check the downward movements of such cross bars. The invention consists in interposing springs to check the upward movements of such guide bars.

KNITTING MACHINE.—John Kent, New York city.—This invention relates to a new and useful improvement in machines for knitting cotton, linen, and woolen goods or garments; and consists in attaching to the ordinary knitting machine certain mechanisms whereby the goods or garments manufactured on such machines are made to present the appearance of being seamed or sewed together, while, in fact, the goods are formed entire, and with unbroken thread.

COMBINED SEEDER AND CULTIVATOR.—Clark Alvord, Westford, Wis.—This invention relates to a seeder, and consists of a seeder wheel placed in front or rear, and, for the most part, outside the seed box, but entering partially within the same, and receiving in its circumferential V-shaped groove a portion of the seed, which portion it carries under and out, and discharges; the circumferential groove being provided with transverse partitions, so constructed as to carry the seed before them until the proper moment, and then discharge it over the stop.

MODE OF CURING CHEESE AND PRESERVING THE SAME WHEN CUTTING.—Artemas Holbregde, West Burlington, N. Y.—This invention relates to an improved mode of putting up, curing, packing, and preserving cheese, whereby it is designed to improve the quality of the cheese, render it capable of preservation a greater length of time, economize in space in packing, storing, and shipping, and to economize and preserve it in cutting for use. The invention also comprises an improved mode of ascertaining and cutting off the exact amount required.

SASH AND BLIND MARKER.—George W. Burton, Bordentown, N. J.—This invention relates to a new machine for marking the bars of sashes and blinds, to indicate the proper places for mortising the same. The invention consists in the general combination of an adjustable fixed marker with a movable marker, and with a spring lever for moving the same; and also in the method of holding the markers in place so that it can readily be misplaced for the several jobs.

WHEEL FOR VEHICLES.—Horatio Keys, Terre Haute, Ind.—This invention relates to a new manner of securing the spokes in the hub of a wheel, with an object of obtaining a firm hold and of facilitating repair in case one or more of the spokes should be broken.

RAILROAD CHAIR.—Loyst J. Smith, Whitehall, N. Y.—This invention relates to a new suspension railroad chair, which is so constructed that it will constitute a durable and reliable connection of railroads and a noiseless support of the same.

NEW BOOKS AND PUBLICATIONS.

CIVIL ARCHITECTURE. Being a Complete Theoretical and Practical System of Building, containing the Fundamental Principles of the Art. By Edward Shaw, Architect, to which is added a Treatise on Gothic Architecture, etc., by Thomas W. Silloway and George M. Harding, Architects. The whole illustrated by One Hundred and Two Plates, finely engraved on copper. Eleventh edition. Philadelphia: Henry Carey Baird, Industrial Publisher, 406 Walnut street. Price, by mail, free of postage to any part of the United States, \$10.00.

A work of this character which can reach eleven editions scarcely needs other evidence of its worth. As its title imports, it is not a mere collection of designs of little value to any but the finished designer, but a complete elementary treatise, beginning at the foundation of the science; and after taking its reader by pleasant and easy gradations through the first principles, teaching him how to apply them in actual work.

The present edition is enriched by the substitution of twenty new plates for those less in keeping with modern improvements, four of which are by Pugin, one of the best English authors on architecture. The whole work has been thoroughly and carefully revised, and, as it now stands, forms the best American work on the science of architecture extant.

ILLUSTRATED REGISTER OF RURAL AFFAIRS.

This annual, published by Luther Tucker & Son, Albany, N. Y., contains 150 illustrations and a valuable assortment of useful hints and information for farmers and housewives. The price is only 30 cents.

FLORAL GUIDE.

James Vick, of Rochester, N. Y., has issued a very beautiful illustrated catalogue of flowers. The engravings are exquisitely done.

The Phenological Journal, for January, is received, with the usual number of graphic sketches of character, portraits of distinguished men, and other entertaining features, which render it one of the most readable of American publications. The present number is peculiarly rich, and by the courtesy of its publishers, it furnished us last week with a fine portrait of M. Lesseps, and a sketch of his life, which is, at this time, of especial interest in connection with the recent construction of the great Suez Canal.

THE INSURANCE MONITOR, C. C. Hine editor and proprietor, 178 Broadway, New York, is one of the ablest monthlies devoted to a specialty published. To all interested in insurance matters, directly or indirectly, it is a sine qua non, and its miscellany cannot but prove acceptable to the intelligent general reader.

- 98,284.—HARVESTER RAKE.—F. H. Manny, Rockford, Ill. 98,285.—APPARATUS FOR BLEACHING AND DEFECCATING CANE JUICE.—J. C. Marsh (assignor to G. R. Marsh), Alexandria, La. 98,286.—WELT KNIFE.—Elezer May, Natick, Mass. 98,287.—STREET BOX FOR GAS PIPES.—Emerson McMillin, Ironton, Ohio.