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### INVENTIONS PATENTED.

NOTE—Patents are granted for 15 years. The term of years for which the fees have been paid, is given after the date of the patent.

#### No. 20,310. Paper Flooring.

(Parquetage en Papier.)

Elijah B. Martindale, Indianapolis, Ind., U. S., 1st October, 1884; 5 years.

*Claim.*—A floor made of paper paste-board, straw-board, or boards, or blocks made wholly or partly of pulp cemented, pressed, dried, cut into strips, and laid down with the cut edge of the paper forming the face or surface of the floor.

#### No. 20,311. Grease Trap for Sinks.

(Réceptacle d'Evier pour Corps Gras.)

John Tucker, New York, N. Y., U. S., 1st October, 1884; 5 years.

*Claim.*—1st. A grease-trap or contrivance for preventing the flow of greasy matter into the waste-pipe, composed of a receiver or receptacle, which is connected to the orifice of the same and provided with an ascending discharge pipe or leg and with means, substantially as described, for conveying the liquid discharged in said receptacle down to the lower part of the same, whereby the particles of greasy matter, which are contained in such liquid, are carried down to the lower part of said receptacle and allowed to rise upward therein, and accumulate on the surface of the liquid in said receptacle, substantially as set forth. 2nd. The combination of a receptacle adapted to receive the greasy liquid from the sink, of means for affording a supply of cold water for keeping said receptacle cool, and of a suitable discharge or exit pipe leading upwardly from the bottom of said receptacle, substantially as set forth. 3rd. The combination, with a receptacle adapted to receive the greasy liquids from the sink, a water-jacket around the same, water-supply and discharge-pipes connected with the said water-jacket, and a discharge or exit-pipe leading upward from the bottom of said receptacle to the waste-pipe, substantially as set forth. 4th. The combination of a receptacle A adapted for cooling liquids from the sink, a water-jacket surrounding the same, a water-supply and discharge-pipe connected to said water-jacket, a pipe for supplying the greasy liquids to the lower part of the receptacle, and a discharge or exit-pipe leading upward from the bottom or lower part of said receptacle to the waste-pipe, substantially as set forth. 5th. The combination, with the receptacle A, of an upper end with the chamber P, and adapted to receive the contents of the sink, and is provided at its lower end with a circular plate or disk R, whereby, on removing said tube O with its bottom plate or disk R, the lower end of the tubular device L will first be closed up and, then, all of the removable parts will be lifted out of the vessel A for the purpose of removing from the latter the mass of collected grease, as hereinbefore set forth. 6th. The combination, with the receptacle A and the tube O, of the cup-like device or disk Q into which the lower end of said tube Q discharges, and from which the discharged liquid overflows, substantially as hereinbefore set forth.

#### No. 20,312. Means of Fastening Shoes on Horses.

(Moyens d'Assujétir les Pies à Cheval.)

James Kiteley, Norwich, Ont., 1st October, 1884; 5 years.

*Claim.*—The combination, with an ordinary horse shoe B, of light straps of iron C, C, passing crossways on the front of a horse's hoof

and attache I to the screw by screws and nuts D, in the manner and for the purposes specified.

#### No. 20,313. Upright Piano Action.

(Clavier de Piano Droit.)

Theodore A. Heintzman, Toronto, Ont., 1st October, 1884; 5 years.

*Claim.*—1st. In an upright piano, a key A having an upward projection e formed on its end to which the pilotte E is connected, and a downward bend f in the key on the other side of its pivot-point, substantially as and for the purpose specified. 2nd. A jack-lever B having an extension-piece F formed on it, substantially as and for the purpose specified. 3rd. A jack-lever B having an extension-piece F formed on it, in combination with the pilotte E connected to the key A, substantially as and for the purpose specified.

#### No. 20,314. Apparatus whereby the relative Motion of two or more Bodies may either be varied in any required manner independently of their Actual Motion or may be determined.

(Appareil par lequel le Mouvement de deux ou plusieurs Corps peut être soit Changé de toute manière voulue indépendamment de leur Mouvement Actuel, ou déterminé.)

Henry S. H. Shaw, Bristol, Eng., 1st October, 1884; 5 years.

*Claim.*—1st. The combination of sphere and roller mechanism, in which two sets of rollers in contact with the sphere have either axes of revolution in two diametral planes respectively perpendicular to each other, so that the sphere can only revolve about the intersection of these diametral planes as axes. 2nd. The combination of a sphere, with one or more rollers in one frame, and one or more rollers in another frame, by which the motion corresponding to derived from that of any external body is communicated to the sphere by means of one or more of the above rollers, and at the same time the consequent motion of another roller is altered independently in any required manner by the relative motion of the above frames, which moves relatively to the other and carries one of the two above sets of rollers. 3rd. The combination of a sphere, with two sets of rollers, one of which is connected with a screw or equivalent device by which independent motions corresponding to those of two moving bodies are communicated, one to the sphere and other to the screw axis of a roller driven by the sphere, so that the frame carrying one set of rollers always tend to move into a position which depends upon the relative motion or velocity ratio of the two moving bodies. 4th. The combination of a sphere and two sets of rollers, by which, if a certain definite motion be given to a roller or graduated wheel or disc in one set, a graduated wheel or roller in the same set is moved through a certain distance depending on the conjoint action of the first roller and of the screw axes of the second which later continuously alters the position of the second set of rollers and thus of the axis of rotation of the sphere. 5th. The combination of rods and swivel or cross joints, and screws suitably arranged in connection with one or more spheres and sets of rollers, so that numerical results are obtained with the sphere and roller mechanism, substantially as hereinbefore set forth and illustrated. 6th. The combination of any number of sets of sphere and roller mechanism, so as to obtain the resultant effect of any required number of variable quantities.

#### No. 20,315. Autographic Duplicating Register.

(Registre à Copie.)

James C. Shoup, St. Louis, Mo., U. S., 1st October, 1884; 5 years.

*Claim.*—1st. A registering or recording apparatus in which a slip to be torn off or severed and issued in parts is fed forward, for tearing or severing by the movement of a record registry or copy slip to be preserved, substantially as set forth. 2nd. In a registering or recording apparatus, the combination of one or more dispensing spools or rollers, and a storing reel or roller, each mounted independently of the others, the dispensing spool being moved to give off a plurality