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INVENTIONS PATENTED.

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

No. 34,444. Stove Pipe Damper. (Clé de tuyau de poêle.)

George C. Humphrey and George H. Richards, Pompey, N.Y., U.S., 2nd June, 1890; 5 years.

Claim.—1st. The combination of a primary damper consisting of a case open at opposite sides and pivoted at its ends and a secondary damper consisting of diaphragms united at their ends and arranged rotatably inside of the primary damper, as set forth. 2nd. The combination of a primary damper consisting of a case open at opposite sides and pivoted at its ends, and a secondary damper consisting of parallel diaphragms disposed successively, each with one of its side edges extending beyond that of the adjacent diaphragm alternately at opposite sides of the damper and firmly united and arranged rotatably inside of the primary damper, as set forth. 3rd. The combination of a primary damper consisting of a case open at opposite sides, a secondary damper arranged inside of the primary damper, and a shaft passing loosely through the ends of the primary damper and locked on the secondary damper, substantially as and for the purpose set forth. 4th. The combination of the primary damper beyond that of the other and provided with the circular apertures *b* in its ends, the secondary damper *C* composed of parallel edges extending beyond that of the adjacent diaphragm alternately at opposite sides of the damper, and having the end plates *d d* polygonal portion *e*, and the shaft *l* formed with the passing through the apertures *b* and *e* of the dampers, substantially as described and shown.

No. 34,445. Fence Machine. (Machine à cloture.)

John C. Kremer and William Schlott, Wadsworth, Ohio, U.S., 2nd June, 1890; 5 years.

Claim.—1st. As an improvement in fence making machines, the clamping post or bar having the transverse pins and the U-shaped improvement in fence making machines, substantially as shown and described. 2nd. As an improvement in fence making machines, the guide post having the and described. 3rd. As an improvement in fence making machines ing from the sides of said sleeves, the ears or lugs project substantially as shown and described. 4th. As an improvement in fence making machines, the clamps or tension regulators having the to said former arms, and lugs engaging these teeth, substantially as shown and described. 5th. The clamp or tension regulator com- and the arm having teeth pivotally secured therein, having an arm, lug of said box, substantially as shown and described. 6th. As an improvement in fence making machines, the twister having the open bearing, the flange *h*, rising above said flange, the lugs *h'*, and the spring secured to the base plate and fitting between the lugs *h'*, substantially as set forth.

No. 34,446. Car Coupling. (Attelage de chars.)

Daniel E. Doherty, (assignee of Perry Brown), Louisville, Ky., U.S., 2nd June, 1890; 5 years.

Claim.—1st. A drawhead of the character described, having its mouth formed on the arc of a circle drawn substantially at right angles to the axis of the drawhead, combined with a clutch *C*, pivoted to said drawhead at the rear of one end of said arc, and

having the outer face of its hook *C*, formed substantially on the arc of a circle as set forth. 2nd. The combination, with the drawhead a having a horizontal recess *h*, and a chamber *b*, of a clutch *C*, pivoted to said drawhead and having its locking hook *C'*, working in said recess, and a pivoted dog *D*, working in said chamber, substantially as described. 3rd. The combination, in a coupling, of a drawhead *A*, having a recess *h*, adapted to receive a link, an automatically locking hook *C*, and a dog *D*, constructed to hold a link, substantially as described.

No. 34,447. Machine for Breaking up Spices. (Machine à concasser les épices.)

Henry N. Watrous, William I. Brotherton and Chaney J. Pickett, Bay, Mich., U.S., 2nd June, 1890; 5 years.

Claim.—1st. In a machine for breaking spices, the combination, with smooth and corrugated crushing rollers journaled in the frame, of a concave crushing plate below the corrugated roller, substantially as described. 2nd. The combination, with a smooth and a corrugated crushing roller journaled in the frame, of a yielding bearing for one of said rolls, a concave crushing plate journaled below the corrugated roller, and a yielding bearing below said crushing plate, substantially as described. 3rd. In a machine for crushing spices, the combination, with the crushing rollers, of the concave crushing plate below said rollers and having a V-shaped crushing space between the plate and the roller, substantially as described. 4th. In a machine of the kind described, the combination of the hopper *L*, the rollers *B, B'*, yielding bearings for the roller *B'*, the concave crushing plate *I* having an extension *a*, the elastic cushions *J* and *K*, and the spout *N*, substantially as described.

No. 34,448. Candy Mold. (Moule à candi.)

Samuel E. Ball, Dayton, Ohio, U.S., 2nd June, 1890; 5 years.

Claim.—A candy mold composed of a series of separable India rubber bars provided with cells in their proximate faces, with or without metal stiffening bars therein.

No. 34,449. Arc Lamp. (Lampe à arc.)

Elmer A. Sperry, Chicago, Ill., U.S., 2nd June, 1890; 5 years.

Claim.—1st. In an arc lamp, the combination of a main circuit electro-magnet or solenoid with a moving frame on which it is supported, a carbon rod clamping device moved by said electro-magnet or solenoid, and a shunt magnet or solenoid adapted to move said frame. 2nd. In an arc lamp, the combination of a main circuit electro-magnet or solenoid with a moving frame on which it is supported, a carbon rod clamping device moved by said electro-magnet or solenoid and a shunt magnet or solenoid adapted to move said frame, said moving frame suspended on spring bars. 3rd. In an arc lamp, the combination of a main circuit electro-magnet or solenoid with a moving frame on which it is supported, a carbon rod controlling device moved by said electro-magnet or solenoid, and a derived circuit electro-magnet or solenoid adapted to move said frame. 4th. In an arc lamp, the combination of a moving frame with a main circuit electro-magnet or solenoid supported on such frame, a carbon rod clamp actuated thereby, and a lever pivoted at one end and attached toward its other end to an armature of the derived circuit electro-magnet or solenoid, and connected with such frame so that the movement of the latter is effected by the derived circuit electro-magnet or solenoid. 5th. In arc lamp, the combination of the moving frame with a main circuit electro-magnet or solenoid supported thereon, a carbon rod clamp actuated thereby, and a lever fulcrumed on a rigid support attached to the armature of the derived circuit electro-magnet or solenoid, and connected with such frame so that the motion of the frame is effected by the derived circuit electro-magnet or solenoid. 6th. In an arc lamp, the combination of a moving frame with a main circuit electro-magnet or solenoid supported thereon, a carbon rod clamp actuated thereby, and a lever fulcrumed at one end and attached toward its other end to the armature of the derived circuit electro-magnet or solenoid, an elastic support for such lever opposing the derived circuit electro-magnet or solenoid, said frame resting upon said lever. 7th. In an arc lamp, the combination of a moving frame with a main circuit electro-mag-