

*Claim.*—1st. The combination, with a length of stove-pipe, of a pipe section of larger diameter fitting therein, and a tapering compressible ring fitting over the smaller section of pipe and entering the larger section, substantially as described. 2nd. The combination, with a length of stove-pipe D, tapering smaller, as described, and a section A of larger diameter fitting thereon, and having an enlarged end, of a compressible ring B formed of a tapering piece of pipe loosely bent into a frustrum of a cone, substantially as described. 3rd. The pipe section D, decreasing in diameter from the point d to the end e, in combination with the section A, increasing in diameter from the point g to the end f, and the compressible ring B formed of a tapering piece of pipe bent into the frustrum of a cone and left unfastened along the seam p, and an inwardly-extending flange F provided on the ring, for the purpose set forth.

### No. 22,570. Mortise Lock and Catch.

(*Serrure Encastrée avec Pêne.*)

Frank A. Hollenbeck, Syracuse, N. Y., U. S., 1st October, 1885; 5 years.

*Claim.*—1st. The combination, with the case A, formed with the cylindrical neck n, slot r and collars c, c' at the ends thereof, of the locking ring g on said neck, and provided with the slot o, the bolt having stud-pin h projecting therefrom and through the slots r, o, and a key for turning the ring g, substantially as set forth. 2nd. The combination, with the case A, formed with the cylindrical neck n, slot r and collar c, having notches v, v', and the key seat u in one of said notches, and the collar c' on the outer end of said neck n, of the locking-ring provided with the extension m, notch v and slot o, the spring i interposed between the ring and collar c, the bolt having stud-pin h projecting therefrom and through the slots r, o, and a key for turning the ring g, substantially as specified. 3rd. In combination with the case A inserted in a mortise in the edge of the door, and the spring bolt B B' in said case, the annular plate f secured in a mortise in the side of the door, the spindle S extending through said plate, the lever a pivoted on the plate f and interlocked with the bolt shank B, and the cam b on the spindle for operating the lever, all combined substantially in the manner specified and shown.

### No. 22,571. Journal and Bushing for Clothes Wringers. (*Tourillon et Boîte pour Essoreuses.*)

The Empire Wringer Co. (Assignees of Henry J. White), all of Auburn, N. Y., U. S., 2nd October, 1885; 5 years.

*Claim.*—The combination of field stud or journal b, loose sleeve F encircling said journal, and crank or winch D, having its hub encircling the sleeve, the sleeve being free to rotate upon the journal, and the crank hub being free to rotate upon the sleeve, whereby the wearing faces of the journal, sleeve and crank are constantly changed, and the wear made uniform at all points, substantially as and for the purpose hereinbefore set forth.

### No. 22,572. Method of Separating Sugar from Syrup. (*Art de Séparer le Sucre du Sirop.*)

Carl Scheibler, Berlin, Prussia, 2nd October, 1885; 15 years.

*Claim.*—The method of employing the mother-likes, resulting from the separation of monobasic saccharate of strontia from molasses or other sacchariferous liquids, by mixing with the lies a fresh portion of molasses or sacchariferous liquids and caustic strontia, for the purpose of again producing from such mixture monobasic saccharate of strontia, substantially as described.

### No. 22,573. Machine for Cleaning Castings.

(*Machine à Nettoyer la Fonte.*)

Frederick W. King, Hamilton, Ont., and John Maw, Dundas, Ont., 2nd October, 1885; 5 years.

*Claim.*—1st. In a machine for cleaning or lightening castings, the combination of a box A, fan B, with tube C, provided with flexible joint C', oscillating tube C, hopper D, provided with flexible tube C<sub>2</sub>, and the movable apron E, substantially as and for the purpose hereinbefore set forth. 2nd. In a machine for cleaning and lightening castings, the combination, with a box A, fan B, tubes C, flexible joint C', tube C<sub>2</sub>, oscillating tube C<sub>4</sub>, hopper D, apron E, with the conveying shaft F, elevator box I and elevator G, substantially as and for the purpose hereinbefore set forth.

### No. 22,574. Car Wheel. (*Roue de Char.*)

John K. Sax, Pittston, Pa., U. S., 2nd October, 1885; 5 years.

*Claim.*—1st. A car wheel consisting of a flanged recessed rim or tire, an inner rim of cast metal, fused or welded to the outer rim, and a body peripherally connected to the inner rim and formed of a separate piece or pieces, substantially as set forth. 2nd. The combination, in a car wheel, of an outer and inner rim, of different metals fused together, and a detachable body portion consisting of a separate piece or pieces, fitted and clamped to the inner rim, substantially as set forth. 3rd. The combination of the outer and inner rims, consisting of different metals fused together, a body peripherally fitted to the inner rim and intervening packings, substantially as specified. 4th. The combination, in a car wheel, of an outer forged recessed rim, an inner rim or section provided with recesses or sockets, and a body portion provided with arms or spokes, fitted to said sockets and secured by clamping plates, substantially as specified. 5th. The combination of the outer and inner rims fused together, and the detachable body having spokes with expanded ends, adapted to sockets or recesses in the inner rim, and a removable cap piece or pieces clamping the body and inner rim together, substantially as specified. 6th. The combination, with the rim having sockets expanding towards the periphery, and body having arms terminating in fingers adapted to said sockets, of side packings and wedges fitting

between the fingers, to compress the packings, substantially as set forth. 7th. The combination, with the outer forged rim, and a detachable body, provided with spokes having expanded ends, of an inner cast metal rim fused to the outer rim, and provided with recesses and attachments for the ends of the spokes, substantially as set forth.

### No. 22,575. Stove and Furnace Grate.

(*Grille de Poêle et de Fourneau.*)

Alexander McKay, Quebec, Que., 2nd October, 1885; 10 years.

*Claim.*—1st. In a stove or furnace, the combination, with the base A, having a central opening B<sub>1</sub> in the top B, and provided with flanges D and door C, of the sliding plate F, having a flanged circular opening and annular flat ring G seated therein, and grate H, having trunnions seated in the ring, whereby the grate will have shaking and dumping movements, and the plate and ring and grate be combinedly removable slidingly, as set forth. 2nd. The combination, with the base A, plate F, ring G and grate H, the flanged rails D, D', secured to the top B by bolts and nuts E, for the purpose set forth. 3rd. The combination, with the base A, of plate F, having a flanged opening, ring G, having notches G<sub>1</sub> on the under side, and grate H, whereby sticking of the ring is prevented, as set forth.

### No. 22,576. Siphon Recording Instrument for Electric Cables. (*Régistère à Siphon pour Câbles Electriques.*)

William Dickinson, Heart's Content, Newfoundland, 2nd October, 1885; 5 years.

*Claim.*—1st. The combination, substantially as hereinbefore set forth, with the marking point of a recording instrument, of a vibrating arm and a mechanical connection between said vibrating arm and said recording instrument. 2nd. The combination, substantially as hereinbefore set forth, with a siphon recorder, of a rheotome, and a mechanical connection between said rheotome and recorder, substantially as and for the purposes specified. 3rd. The combination, substantially as hereinbefore set forth, with the marking point of a siphon recorder, of an electro-magnet, its armature, a circuit for said electro-magnet, the connections of which are automatically made and interrupted by the to-and-fro movement of said armature, and a mechanical connection, substantially as described, between said armature and siphon, whereby the latter is vibrated. 4th. The combination, substantially as hereinbefore set forth, with a marking point, and means for moving the same laterally, of a rapidly vibrating arm and a connection between said arm and marking point, substantially such as described, whereby the vibrations of said marking point are in a plane at right angles to its lateral movement.

### No. 22,577. Food. (*Aliment.*)

Samuel Marrotte, Montreal, Que., 2nd October, 1885; 5 years.

*Claim.*—The dry food compound, herein described, consisting of coffee, sugar, and condensed milk, substantially in the proportions given and prepared in the manner set forth.

### No. 22,578. Lubricant. (*Grassage.*)

Edward Loveley, Sarnia, Ont., 2nd October, 1885; 5 years.

*Claim.*—The herein described composition of matter for lubricating cylinders and journals, consisting of concentrated lye, lard oil, beeswax, water, and Pennsylvania crude petroleum oil, in the proportions specified.

### No. 22,579. Earth Closet. (*Siège à la Terre Sèche.*)

William Heap, Owen Sound, Ont., 2nd October, 1885; 5 years.

*Claim.*—A urine-separating receptacle B, provided with a sloping shelf C, constructed substantially as and for the purpose specified.

### No. 22,580. Tintograph. (*Tintographe.*)

Edward H. Brown, New York, N. Y., U. S., 2nd October, 1885; 5 years.

*Claim.*—1st. In a tintograph, a tint plate mounted on a turn-table so that it may be rotated at will under the work, which is placed in a fixed position over it, and also provided with a radial movement by means of a laterally sliding plate interposed between it and the bed of the turn-table plate, substantially as shown and described. 2nd. In a tintograph, a turn-table plate provided with a fixed vertical axis, in combination with the stationary bed plate which secures it in place and allows it to rotate thereon, said turn-table provided on its upper face with a tint plate, the upper surface of which is ribbed with intervening grooves between the said ribs, the whole operating so that by turning the said turn-table and its attached tint plate, the ridges or lines on said tint plate may be turned at any angle, or parallel with any given radial line, substantially as shown and described. 3rd. In a tintograph, a tint plate carrier formed of the turn-table plates B, C, the latter being laterally adjustable on the former by means of an adjusting screw, so as to slide the top plate C, on the bottom plate B, suitable guides between the two plates keeping them in position in the other direction, and thereby laterally adjust on the turn-table proper the tint plate K, which is secured to, and moves with the sliding plate C, substantially as shown and described. 4th. The turn-table C, clamps m, and tint plate K, combined substantially as described. 5th. In a tintograph, the combination of the base or bed-plate A, provided with the central boss or sleeve a<sub>x</sub> and the plate B, provided with the feet b and central pivot b<sub>x</sub>, substantially as and for the purpose herein described. 6th. In a tintograph, the combination of the plate B, provided with the legs b and slots b<sub>2</sub>, the plate C, provided with the lug c and ribs or fins c<sub>2</sub> and the screw D and spring d, arranged and operating substantially as and for the purposes herein described. 7th. The stationary bed-plate A, having socket holes a<sub>2</sub> on its top face and near its edges, in combination with the frame or plate E, provided with feet f, the said feet being