

the oscillating discharging chute N, the rods P, P, each attached respectively to a bucket or receptacle E, arms T, T, each extending toward the centre of the case and attached to a rock shaft I, pivoted to the case on opposite sides of each rod, a pin r, on each rod above the free end of each arm T, and engaging with the same on the descent of the rod, the levers u, one on each rock shaft, the arm V, pivoted on the levers u, and attached to the oscillating chute N, whereby the engagement of the pin r, with each arm T, effects the movement of the oscillating chute, the oscillating double faced chute G¹, pivoted with the chute N, and arms H¹, H¹, each pivoted to a lever u, and connected to opposite sides of the chute G¹, as described. 7th. The combination, substantially as and for the purpose set forth, with the top of the case A, of the opening J, on the same, the oscillating double faced chute G, moving in said opening, and the oscillating discharging chute N, having its discharging end not less in width than the width of the remainder of the chute.

No. 42,459. Food Warmer.

(Machine à chauffer les aliments.)

Clara A. Pemiston, New York, State of New York, U.S.A., 5th April, 1893; 6 years.

Claim.—1st. As a device for keeping food, &c., at a desired temperature, a hand bag divided longitudinally by a partition, one side of which contains the means for keeping such goods at the desired temperature and the other the goods themselves, all as and for the purposes set forth. 2nd. The portable bag A with handle B, compartments A¹ with funnel D, and A² with flap E, and pockets F F, substantially as and for the purposes set forth.

No. 42,460. Automatic Window Lock and Catch.

(Serrure et arrêt automatique pour fenêtres.)

Frederick G. Woodruff and Robert G. Sharp, both of Saint John, New Brunswick, Canada, 5th April, 1893; 6 years.

Claim.—1st. The sliding plate B B, as formed and made with the vertical slot e, and the circular terminus f, and as connected with the front plate A A, by the knob D, and in combination with the square spindle E E, substantially as and for the purpose hereinbefore set forth. 2nd. The front plate A A, formed and made with the vertical slot e, and the groove a a, on the back to secure the sliding plate B, B, substantially as and for the purpose hereinbefore set forth. 3rd. The combination of the plate A A, the sliding plate B B, the knob D, the square spindle E E, the case F F, and the gear wheel G G, with the track K K, as applied to windows and sashes, substantially as and for the purpose hereinbefore set forth.

No. 42,461. Nipple for Radiators.

(Boucle d'accouplement pour calorifères.)

Eugène S. Mamy and Charles F. Lalonde, both of Montreal, Quebec, Canada, 5th April, 1893; 6 years.

Résumé.—1° Dans une boucle d'accouplement, les deux extrémités C B filletées à droit dans des proportions différentes, tel que ci-dessus décrit. 2° Dans une boucle d'accouplement, les deux extrémités C B filletées à gauche, dans des proportions différentes, tel que ci-dessus décrit. 3° Dans une boucle d'accouplement telle que décrite les boutons intérieurs H¹ tels que spécifiés et pour les fins indiquées.

No. 42,462. Chromatic Pitch Pipe.

(Diapason chromatique.)

Charles Harris Congdon, St. Paul, Minnesota, U.S.A., 5th April, 1893; 6 years.

Claim.—1st. In a device of the class described, the combination of the base, having a series of parallel transverse grooves, the adjacent grooves opening to different sides of the base, series of reeds arranged above said grooves, and an enclosing cap above said reeds, provided with a suitable vent, substantially as described. 2nd. In a device of the class described, the combination of the base having a series of recesses, series of recesses arranged respectively above said recesses, a cover above said reeds, notches or outlets respectively connecting said recesses with the different sides of the base in such manner that the outlets of adjacent recesses are upon different sides of the instrument, substantially as described. 3rd. In a device of the class described, the combination of the recessed base, a reed plate arranged thereon having a bottom and a top series of reeds, one of each series standing above each of the recesses in the base, a cover fitted upon said plate above said reeds and provided with a suitable vent, and notches or outlets in the sides of the base communicating severally with said recesses and serving as ports for said reeds, so that the outlets of adjacent recesses are upon different sides of the instrument, substantially as described.

No. 42,463. Safety Boiler Feed.

(Alimentateur de surtété pour chaudières.)

Willard Bingham Culver, Scranton, Pennsylvania, U.S.A., 5th April, 1893; 6 years.

Claim.—1st. A boiler feed consisting of a chamber having communication with the steam and water of a steam boiler, and provided with a vessel which is connected with a valve for the escape of steam

from said chamber, a valve connected with a water supply and also with the boiler, a lever attached to the last named valve, and a plunger operated by the steam escape valve and secured to said lever, said parts being combined, substantially as described. 2nd. A boiler feed, having the chamber A, the side of chamber 8, with steam outlet, the pivoted lever 6, the rod 5, secured to said lever, the valve C, connected to said lever and controlling said steam outlet, and the vessel B, loosely fitted on said rod 5, and adapted to operate the said lever 6, said parts being combined, substantially as and for the purpose set forth. 3rd. A boiler feed having a water and steam chamber, a side chamber communicating with said first chamber and having a steam outlet, a lever pivoted in said side chamber and provided with a valve controlling said steam outlet, a rod in said first chamber, a vessel adapted to bear on the rod so as to operate said lever and valve, and a spring adapted to normally close said valve, said parts being combined, substantially as and for the purpose set forth. 4th. A boiler feed, consisting of the chamber A, in combination with the boiler, a side chamber communicating with said chamber A, the chamber 9, with steam outlet, the lever 6, with rod 5, the vessel B, on said rod, the chamber 10, communicating with said chamber 9, a steam whistle connected with said chamber 8, and a water supply pipe leading to said chamber A, and a pivoted lever having a plunger working in chamber 10, a stem adapted to operate said whistle, and a valve controlling said water supply pipe, substantially as described. 5th. In a boiler feed, the vessel B, the chamber A, having the plunger chamber 10, and the whistle 16, communicating with said chamber A, substantially as and for the purpose set forth.

No. 42,464. Cattle Guard. (Garde-bétail.)

The Consolidated Railway Equipment Company, assignee of Samuel Street Fuller, Stratford, assignee of Thomas Richard Fuller and William Coe Nunn, both of Toronto, all in Ontario, Canada, 5th April, 1893; 6 years.

Claim.—1st. In a cattle guard, a grating, formed of a series of bars A, set on a fulcrum being arranged in a line transversely of the track on one side of the centre of the length of the bars and said bars A being connected at their ends by the cross bars B, C, all substantially as shown and described. 2nd. In a cattle guard, a section of grating having its fulcrum supported on a line transversely of the track, in combination with a block C, arranged at one end of said grating and having an inclined upper surface, substantially as described.

No. 42,465. Disinfecteur. (Désinfecteur.)

Adolphus Davis, of Montreal, Quebec, Canada, 5th April, 1893; 6 years.

Claim.—1st. A disinfecteur characterized by the following elements: A receptacle arranged to receive the disinfecting agent and having two openings adapted to be hermetically sealed, trackways inside and outside of said receptacle, carriers for travelling on same and distinct or isolated entry and exit compartments into which said receptacle opens, as set forth. 2nd. A disinfecting apparatus consisting of a double jacketed tubular receptacle adapted to be hermetically sealed, a heating space provided by the double jackets, controlled inlet and outlet to and from said space for the disinfecting agent, and carriers for entering said receptacle as set forth. 3rd. A disinfecting apparatus consisting of a double jacketed tubular receptacle adapted to be hermetically sealed, a heating space provided by the double jackets, controlled inlet and outlet to and from said space for the disinfecting agent, evaporating ducts communicating with the interior of said receptacle, and carriers for entering said receptacle, as set forth. 4th. A disinfecting apparatus consisting of a tubular receptacle, adapted to be hermetically sealed, one or more perforated pipes arranged within said receptacle, suitably controlled connections between said pipes and a steam supply, and carriers for entering said receptacle. 5th. In a disinfecting apparatus, the truck or carrier having wheel mounted body, open framework sides and transverse connecting roller stays or supports, as set forth. 6th. In a disinfecting apparatus, the door clamping devices in the form of eccentric levers DD, pivoted in hinged brackets D¹, as shown and described.

No. 42,466. Form-Setting and Type-Casting Machine.

(Serre-forme et machine pour couler les caractères.)

George Corsa, New York, State of New York, U.S.A., 5th April, 1893; 6 years.

Claim.—1st. The combination of a series of blocks and a series of rigid radially pivoted carriers, and a slot into which they successively enter thereby forming a matrix for a line of type or other characters, substantially as set forth. 2nd. The combination with a series of blocks, of a series of pivoted carriers having each a longitudinally extensible stem, said carriers having the pivots arranged on a curved line, substantially as set forth. 3rd. The combination with a series of blocks bearing a series of characters, of a series of rigid carriers arranged in nests with their pivots on a curved line, substantially as set forth. 4th. The combination with the blocks, of carriers each