# No. 28,437. Flush Valve for Water Closets.

(Valve de lavage pour cabinets à l'eau.)

Thomas Campbell and James II. McPartland, Saint John, N. B., 2nd February, 1888; 5 years.

Claim.—1st. The combination of the cylinder C and the piston A. substantially as and for the purpose hereinbefore set forth. 2nd. The combination, with the cylinder C and the piston A. of the red F and the down-pull G, substantially as and for the purpose hereinbefore set forth. fore set forth.

### No. 28,438. Door Knob. (Bouton de porte)

Joseph Bardsley, Brooklyn, N.Y., U.S., 2nd February, 1888; 5 years.

Claim.—The kach shank, having the open slot at its inner and, and the flat plate contained in said slot, combined with the weeden knob having a socket to receive the inner end of said shank, one longitudinal edge of said plate being embedded in the knob when the parts are in operative position, while the other longitudinal edge of same remains in said slot, substantially as set forth.

## No. 28,439. Safe Lock. (Serrure de coffre-fort.)

Harry Stanynought, Brooklyn, N. Y., U S., 2nd February, 1888; 5

Harry Stanynought, Brooklyn, N. Y., U. S., 2ad February, 1888; 5 years.

Clasm.—1st. A safe, having its lock and combination contained in the body at one side of the door-opening, the butts of which lock are arranged to extend bodily from the jamb within the said opening and have angagement with the door, substantially as sat forth. 2nd The combination fitted in said safe at one side of the door opening, of a door fitted to said opening, provided with slotted edges adapted to receive the bolts of the lock, and means for manipulating said lock, substantially as herein shown and desorthed. 3cd. The combination with a safe, having a door opening and a lock, and its combination fitted in the body of the safe at one side of said opening, said lock provided with upper and lower angular bolts, arms carrying posts adapted to receive case said bolts, and a binged locking plate adapted via secure said bolts in an open or closed position, of a dirac provided with a slot in the edge adapted to receive said bolts, substantially as shown and described and for the purposes broin act forth. 4th. The combination, with a safe and a lock and its combination fitted in the body of the safe, said lock provided with an upper and lower angular bolt, provided with stop plates upon the outer face, and earrying posts adapted to reciprocate said bolts, a huged locking plate carrying blocks upon its inner face adapted to engage the stop plates upon the bolts, and means for manipulating said look plate, of a door fitted in said safe, provided with a slot in the edges thereof, substantially as shown and described and for the purposes berein set forth. 5th. The combination, with a safe and a look, and its combination fitted in the body of the safe, said took provided with an upper and lower angular bolt, provided with a slot in the edges thereof, substantially as shown and described. The combination fitted in said safe, provided with a slot in the edges thereof, substantially ashore and a look, and its combination fitted in the body of the sa

#### No. 28,440. Steam Boiler. (Chaudière à vapeur)

Miles L. Chinton, Ithaca, N.Y., U.S., 2nd February, 1838; 5 years

Miles L. Clinton, Ithaca, N.Y., U.S. 2nd February 1833: 5 years
Claim.—Ist. The combination, with the borizontal boiler sections
provided with ascending Rues N. descending flues O and ascending
flues P, of a base ring B provided with compartments be connecting
the lower ends of the flues O and P, substantially as set forth. 2nd.
The combination, with the horizontal boiler sections G, 171, H. H.
and dome I, of the central water column E communicating with the
water and steam spaces of the boiler, substantially as set forth. 3rd.
The combination, with the horizontal boiler sections G, G1, H. H.
and the dome, of the central water column E, communicating at its
upper end with the dome, and water pipes p connecting the lower
portion of the water column E with the boiler section G substantially as set forth 4th. The combination, with the horizontal boiler
sections, provided with flues N. O. P. of the base ring B, provided
with compartments be, having openings be and morablegates be, substantially as set forth. 5th. The combination, with the boiler sections;
surrounding the water column within the fire chamber, substantially
as set forth. 6th. The combination, with the boiler sections, having
ascending flues N, of the pendont metallic plates r, arranged in the
mouths of said flues, substantially as set forth. 7th, The combination, with the boiler sections and the central water column E, of the tion, with the boiler sections and the central water column E, of the

circular grate frame C surrounding said column, and the grate sections d resting on said frame, substantially as set forth. 8th. The combination, with the boiler sections, of the smoke-box I resting on the same. a fust magnatine Q provided with an opening q, a cover q, and a varve q; connected with the cover q, substantially as set forth. 9th. The combination, with the grate provided with a rack bar us, of the shaking layer us provided with a gear segment us meshing with said rack bar, substantially as set forth.

## No. 28,441. Door Bell. (Timbre de porte.)

Charles L. Livingstone, Battle Creek, Mick., U.S., 2nd February, 1833; 5 years.

1833; 5 years.

Claim.—let. In a door belt or song, the combination, with the contral post E and with its toothed whoel affixed to and turning therewith, of a pivoted palica I carrying the arms, , ), one arm being connected with a reacting spring, and the other carrying the clapper, substantially as shown and described. 2nd. In combination with the base plute and a striking mee ransm, with a handle for operating the same, the central post carrying the toothed wheel F, such post terminating at its outer and about flush with the outer face of such plate, and provided with a square spoket, as set forth, for receiving the square and of the spinile, and keving its other and interiorly threaded, as described, for securing the belt thereto, all substantially as shown and described. 3rd. In combination with a striking meaning meaning with the outer face of this plate, and a spindle on the knob or handle adapted to extend through the door frame and into a socket in such post, and having secured to it, before it is so applied the outer shield or plate of, as and for the purposes set forth. In cambination, a bell and clapper, the central post E carrying the boil and toothed wheel, the opposite uprights I and L, and the pallet of serving to connect logather this post and the uprepts, the pallet of garging and toothed wheel, and the present gother and such paint of its post and the preparation of the pallet of garging sand toothed wheel, and the preparation of the pallet of garging sand toothed wheel, and the preparation of the pallet of garging sand toothed wheel, and the preparation of the pallet of garging sand toothed wheel, and the preparation of the pallet of garging sand toothed wheel, and the preparation of the pallet of garging sand toothed wheel, and the preparation of the pallet of garging sand toothed wheel, and the preparation of the pallet of garging sand toothed wheel, and the preparation of the pallet of garging sand toothed wheel, and the preparation of the pallet of garging sand toothed wheel, and the prep pallet engaging and toothed wheel, and the reacting spring for such paliet, all substantially as and for the purposes set forth.

## No. 28,442, Journal Bearing.

(Coussinet de tourslion.)

Mahlon Randolph, New York, N. Y., U.S., 2nd February, 1888; 5

years.

Claim.—1st. In an anti-friction journal bearing, a metallic shell or housing provided with re-entering lugs or retaining ribs of the same length as the retaining shell, and adapted to receive the end thrust of the axie, substantially as described. 2nd. An anti-friction journal bearing formed of a bushing or wearing part unide of a self-lubricating compound of plumbage, a strongithening fibre and a strongly comenting size pressed into a suitable metallic shell for holding the bushing in place and form, and held in the shell by suitable retaining lugs of a length equal to the length of the bearing, so that their ends shall not as longitudinal stops, substantially as described. 3rd. The combination of an anti-friction bushing for journal and similar bearings of machinery, and a metallic shell provided with retaining lugs made to averlap circumforentially the end flux, es or collars of the journal, and of the same length as the shell, so as to form longitudinal stops against the displacement or injury of the form longitudinal stops against the displacement or injury of the bushing, substantially as described.

# No. 28,443. Journal Bearing.

(Coussinet de tourillon.)

Mahlon Randolph, New York, N. Y., U. S., 2nd February, 1888; 5

Claim—lst. A journal or other machine bearing formed of vulcan-ized fibro, and an anti-friction compound composed of plambage and an albering coment combined together, so as to form the bearing surface partly of vulcanized fibre and partly of the lubricating plumbage compound, substantiatly as described. 2nd. In an anti-friction journal or machine bearing having a lubricating surface of a compound of plumbage and an adhetic mixture, bearing strips of vuicanized fibre imbedded in the anti-friction material, substantially as described. as described.

#### No 28,444. Photograph Burnisher.

(Calandre de photographe.)

Warron H Boles, Syracuse, N.Y., U.S., 2nd February, 1888; 5 years. Claim.—1st. In a photograph burnisher, a tubular burnishing or polishing tool open from and to end and having an opening to receive the chimnes of the heating lamp, and a hinged funder or bood, to permit togress and egress of the lamp, combined with such lamp, substantially as described. 2nd. In a photograph burnisher, a subaliar burnishing or polishing tool open from end to end and having an opening to receive the chimney of the heating lamp, and a hinged fender ar head to permit ingress and egress of the lamp, and a stationary fender co-operating with the hinged fonder, to inclose the upper ond or outlet of the lamp chimney, combined with such lamp, substantially as described. 3rd. In a photograph burnisher, a burnishing tool provided with futeria arms and adjustable pivot or fulcrum surews on which said arms rost, and an intermediate temper corew, substantially as described. 4th. In a photograph burnisher, the burnisher, and accompany to the said arms and adjustable pivot or fulcrum topic and the said arms and adjustable pivot or fulcrum substantially as described. 4th. In a photograph burnisher, the burnisher, the burnisher, dearnishing or polishing tool and a heater therefor, combined with a temperature indicating device, such as a thermometer, substantially as described. 5th. In a photograph burnisher, the tubular feed-roll d, open from end to end to ventiliste the same, combin i with a burnishing bool, and means to heat the latter, substantially as described. 6th. The feed-roll of a burnishing machine, the acting of feeding surface of which is knurled as distinguished from draw-filed, substantially as described. Warron H Boles, Syracuse, N.Y., U.S., 2nd February, 1888 : 5 years. stanually as described

#### No. 28,445. Hinge. (Charnière.)

Joseph Strachan, Brooklyn, N.Y., U.S., 2nd February, 1888; 5 years. Claim.—let. A hinge, substantially as shown and described, consisting of a circular slide adapted to be attached to the lid or object