encies of work, a series or system of circular cutters placed coincident with the space a between said straining bars, means for reciprocating the same, substantially as and for the purpose herein set forth. 24th. The combination of a series or system of circular cutters, with means for operating said cutters, straining bars A, A1, provided at their ends with vertical tongues Be. brackets having vertical guides C\*, for receiving said tongues, and means, substantially as described, for adjusting the distance between the said straining bars, substantially as and for the purpose herein set forth. 25th. The combination of straining bars A, A1, serves A\*, for limiting the distance between the said straining bars in position with reference to regidly hold the said straining bars in position with reference to each other substantially as and for the purpose herein set forth. 25th. The combination of straining bars in position with reference to each other substantially as and for the purpose herein set forth. 25th. The combination of brackets D\*, carrying straining bars A, A1, with a series or system of circular cutters placed coincident with the space between said straining bars means for operating cutters and screws G\* for adjusting said brackets and consequently the straining bars with reference to said cutting device or mechanism, substantially as and for the purpose herein set forth. 27th. The combination of the straining bars A, A1, with the serews G\*, means, substantially as described, for preventing the longitudinal movement of the said screws, a series or system of circular cutters placed coincident with the space a, between said straining bars. demans for rotating said cutters, and means for system of circular cutters placed coincident with the brackets D\*, constructed with the vertical tongues B\*, with the brackets D\*, constructed with diversements of the brackets D\* control of the fixed dove-tail ho power, and means for applying a brake to neutralize the acquired momentum of the rolls simultaneously with the disengazement of the latter from the driving mechanism or motive power, substantially as and for the purpose herein set forth. 33rd. The straining bars A. At, with cutting mechanism arranged to operate coincident with the space between said bars, rolls B. Bl. means for driving said rolls from the shaft E4, means for driving said shaft lever h7, rod g3 having the laterally projecting inclined plane, means for operating said rod, and means operated by said rod for disconnecting the driving means of shaft E4 from said shaft, all substantially as and for the purpose herein set forth. 34th. The combination, with the bar G1, means for reciprocating said bar, a shaft n and a series of cutters, said shaft and cutters being carried by said bar gearing for transmitting motion to said cutters from said shaft, and means for operating said shaft, of a bracket G\* made in two connected parts and provided with cheeks K1, and the collar K on the aforesaid shaft n, all substantially as and for the purpose herein set forth. 35th. The combination, with a bar G1, means for reciprocating said bar, a series of cutters carried by said bar, a shaft n mounted in bearings upon the said bar G1 and having a spline formed thereon, and gearing for imparting a rotary motion from said shaft n to the cutters, of a pulley n provided with an internal groove for the reception of the spline on the said shaft, fixed bearings for said pulley, and means for operating said pulley, all substantially as and for the purpose herein set forth.

#### No. 19,309. Hand Grenade for Extinguishing Fires. (Grenade à Main pour Eteindre les Feux.)

John J. Harden, Chicago, Ill., U.S., 12th May, 1884; 5 years.

John J. Harden, Chicago, Ill., U.S., 12th May, 1884; 5 years. Claim—1st. In a hand grenade for extinguishing fires, the combination, with the liquid contents, of solid material of equal or greater specific gravity than the liquid for the purposes herein set forth. 2nd. In a hand grenade for extinguishing fires, the combination, with the shell thereof, of a wire or metal band, substantially as and for the purpose set forth. 3rd. In a hand grenade for extinguishing fires, the combination, with the shell thereof, of a wire or metal band provided with a loop for suspending the grenade, substantially as described. 4th. In a hand grenade for extinguishing fires, the combination, with the shell thereof provided with a groove for retaining in place a wire, of a wire resting in said groove, substantially as and for the purpose set forth. for the purpose set forth.

### No. 19,310. Fare Box. (Boi'e à Billets.)

Timothy B. Stewart, Hartford, Ct., U.S., 12th May, 1884; 5 years, Claim.—1st. In a fare box, in combination the frame a, having the receiving-section b, with trough d for guiding the fares, the inspection-section with side panes  $g, g^*, g^*$ ,  $g^*$ , and the vertical cross partitions gIII of glass, the rotary cylinder e, with compartments at the bottom of the latter section, and the drawer f having the vertical partition bII, all substantially as described. 2nd. In a fare box of the within described class, the rotary cylinder e, having peripheral compartments, and fast to its axis that projects through the side of the box, the handle h with the flat surfaces co-operating with the spring inpelled broad faced bolt i, whereby the cylinder may be held in place to receive the fares, or rotated in either direction to deposit them, all substantially as described.

### No. 19,311. Carpet Sweeper.

(Balayeuse de Tapis.)

George W. Zeigler, Norwalk, Ohio, U.S., 12th May, 1884; 5 years.

George W. Zeigler, Norwalk, Ohio, U.S., 12th May, 1884; 5 years.

\*\*Claim\*\*—1st.\* In a carpet-sweeper, the combination of the driving wheel, the adjustable double arm bracket having belt tightening wheel, with the brush driving wheel, substantially as set forth. 2nd A carpet-sweeper provided with operating mechanism, the combination, with said sweeper, of the carpet beater, as described, whereby the sand and dust is first loosened from the carpet and then taken up with the brush. 3rd. A carpet-sweeper provided with operating mechanism, in combination with a spring lever adjusting journal of the bearing of the brush spindle, whereby the brush may be adjusted vertically and held in the desired position by the lever of said spring journal, substantially as set forth. 4th. The combination, in a carpet-sweeper having operating mechanism, such as described, provided with retaining devices, whereby the brush is held in the desired position and a rattling noise and jur is prevented, as set forth. The combination, in a carpet-sweeper having operating mechanism such as described, of the carpet-beater provided with rollers, the forth. The carpet-sweeper having the end pieces, constructed as described, for the reception of the cover, in combination with said covers ribbed as shown, and with the removable shoe forming mouth-piece (see Figs. 4, 6 and 7), whereby the said mouth-piece (see Figs. 4, 6 and 7), whereby the said mouth-piece shows and with said covers ribbed as shown, and with the removable shoe forming may mouth-piece (see Figs. 4, 6 and 7), whereby the said mouth-piece should be removed and interchanged, substantially as set forth. The brush, the sliding bottom, whereby the dust gathered into the sweeper with the brush may be removed from the box of the sweeper with the brush may be removed from the box of the sweeper with the purpose with the substantially as the continuation of the cover in combination with side with inwardly turned flanges for the reception of, and in combination with the removable shoe formin with inwardly turned flanges for the reception of, and in combination with, the sliding bottom, whereby the dust gathered into the sweeper within the shiding bottom, whereby the dust gathered into the sweeper without by the brush may be removed from the box of the sweeper without remitting the floating dust within the sweeper to again fly about the remitting the floating dust within the sweeper to again fly about the floating defends, as described, of the sliding bottom with the ring and with spring i, for closing the bottom when open, and for retaining it in position and to prevent rattling, as set forth. 9th. A carpet sweeper, such as described, having a rotating brush, in combination with a comb or cleaner having the edges parallel with the hairs of the brush, whereby the brush is cleaned without cutting the hairs of the brush, whereby the brush is cleaned without cutting the hairs of a removable shoe with the mouth-piece of the sweeper, said shoe of a removable shoe with the mouth-piece of the sweeper, said shoe being adapted to pies between the interpolation of the comb or cleaner constructed as described, as an article of manufacture. 13th. The combination, with a carpet-sweeper of the slitted handle piece provided with the section of screw (see of the slitted handle piece provided with the section of screw in such manner that the handle is kept in a vertical position way weeper in such manner that the handle is kept in a vertical position when denisted. 14th. The combination, with a sweeper, of the slitted so that the section of screw with a handle provided with a screw to having the section of screw with a handle provided with a screw to having the section of screw with a handle provided with a safe, all arranged substantially as set forth.

No. 19,312. Decov Duck. (Anneau.Canard.)

## No. 19,312. Decoy Duck. (Appeau. Canard.)

rienry K. Humphreys, Toronto, Ont., 12th May, 1834; 5 years. Claim.—1st. A board A, having a hole B made in it. as specified, and a wire C, in combination with a duck E, set into the hold B, and held in position by the wire C, substantially as and for the purpose held in position by the wire C, substantially as and for the purpose wire C, extending from its top side, and the notches D, cut in the starting of the board, in combination with the duck E, arranged substantially as and for the purpose specified. 3rd. In combination with a tially as and for the purpose specified and the combination with a tially as bottom side, substantially as and for the purpose specified.

# No. 19,313. Improvements in Typography.

(Perfectionnnements dans la Typographie.)

Charles H. Davids, Brooklyn, N. Y., U. S., 12th May, 1834; 5 years.

Chaim.—1st. The combination of the key levers K, t, impressionlever I t, link u, toggle-joint 12 13, slider 14, puppets p and forthpunches t, p, arranged substantially as and for the purpose set,
and time as shown. The key levers K, t, and impression-lever I t, with an adjusting
the adjustments a, a, in combination with a train of connections to the type-punch t p, substantially
as shown. Trd. The key levers K, t, impression levers I, t, and its
adjustments a, a, in combination with a train of connection to the
type punch t p, substantially as shown and described.

4th. The combination of the key levers K, t, the impression lever I, the conditions from the impression lever I t, and including the slider 14 and the
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the locking levers t, t, Charles H. Davids, Brooklyn, N. Y., U. S., 12th May, 1884; 5 years.