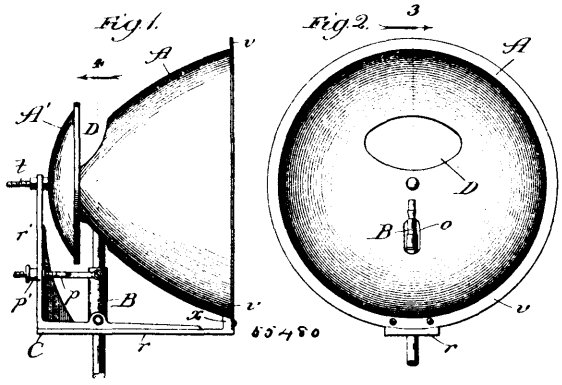
near its apex, and a supplemental reflector adjacent to and behind the said apex, provided with a reflecting surface the area of which



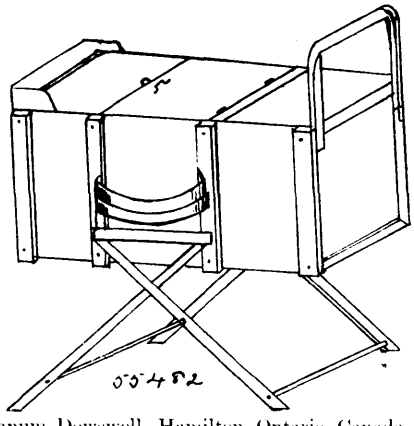
is in excess of that of the ventilating opening and mounted to be shifted to present different portions thereof to the said opening, substantially as described. 5th. In combination with a reflector provided with an opening in its wall, a pivotally supported burner extending through said opening, and means for adjusting the burner on its pivotal support to vary the focus, substantially as described. 6th. In combination with a supporting frame, a reflector A secured on said frame, and having an opening in its wall, a pivotally supported burner B extending through the opening into said reflector, and a rad connection p between the burner and the frame, provided with an operating nut p^1, substantially as and for the purpose set forth.

No. 55,481. Artificial Fuel. (*Combustible artificiel.*)

Sally Katz, Hamburg, assignee of Rudolph Arnold, Magdeburg Neustacht, both in Germany, 1st April, 1897; 6 years. (Filed 2nd March, 1897.)

Claim.—The herein described process of manufacturing artificial fuel from saw-dust, mill refuse, etc., which consists in heating the said saw-dust or saw-mill refuse, while it is under a high pressure in a mould or chamber, air being excluded from said moulds or chambers until the brickets are thoroughly converted into charcoal, substantially as set forth.

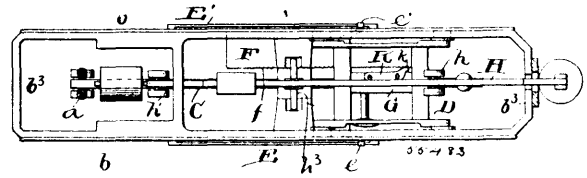
No. 55,482. Washing Machine. (*Machine à laver.*)



George Branum Dowswell, Hamilton, Ontario, Canada, 1st April, 1897; 6 years. (Filed 8th March, 1897.)

Claim.—In the washing machine, the combination of the semi-arched floor D^1, D^2, D^3, corrugated with the corrugated walls A^1 and A^3, and the corrugated angular sides A^2, vents B and recesses C, all operating substantially as and for the purposes herein set forth.

No. 55,483. Computing Scale. (*Balance.*)

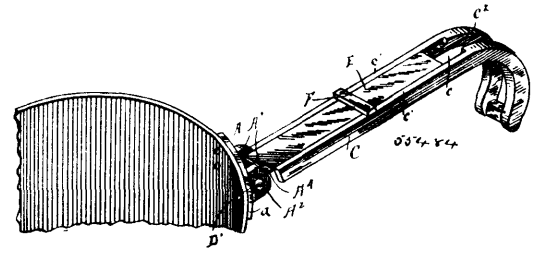


The National Computing Scale Co., assignee of John Henry Swihart, Cleveland, Ohio, U.S.A., 1st April, 1897; 6 years. (Filed 22nd January, 1897.)

Claim.—1st. In a computing scale, the combination with a graduated rate beam which has no sensible longitudinal movement, of movable fulcrum which is adapted to be moved into engagement with different parts of the rate beam, and is supported independently of the scale beams, substantially as and for the purpose specified. 2nd. In a computing scale, the combination of a rate beam which does not move longitudinally, and a fulcrum which is supported independently of the scale beams and is movable longitudinally of said rate beam, with means for relatively moving the fulcrum and scale beam toward and from each other to cause their engagement and disengagement, substantially as and for the purpose specified. 3rd. In a computing scale, the combination of a graduated valve beam, an auxiliary beam, a connecting rod for connecting the auxiliary beam with the platform levers or scale pan, and two freely swinging links suspended respectively from said two beams, with a horizontal rate beam extending between and freely suspended upon said links, and a horizontally movable fulcrum adapted to be moved into engagement with any part of the rate beam, substantially as and for the purpose specified. 4th. In the described scale, the fulcrum carriage which is mounted in horizontal grooves in the scale frame, and a vertically movable fulcrum block mounted upon said carriage, substantially as and for the purpose specified. 5th. In the described scale, a fixed rate plate graduated to correspond with the graduations in the rate beam, and a pointer secured to the fulcrum carriage and extended in front of said rate plate, substantially as and for the purpose specified. 6th. In the described scale, the fixed rate bar notched to correspond with the graduations on the rate beam, and a spring-actuated finger connected with the movable fulcrum, and adapted to engage with the notched edge of said bar, substantially as and for the purpose specified. 7th. In the described scale, the two stops placed respectively close to but out of contact with the ends of the rate beam, substantially as and for the purpose specified. 8th. A combined gravity and balance weight secured to beam A and adjustable thereon both vertically and in the arc of a circle, substantially as described.

No. 55,484. Detachable Handle for Pans.

(*Poignée pour casseroles.*)



Thomas Wright and Edmund A. Stansfield, both of Emans, Pennsylvania, U.S.A., 1st April, 1897; 6 years. (Filed 15th March, 1897.)

Claim.—1st. The combination with the coupling having ears with notches and openings and adapted for attachment to a pan, of the handle having a sliding catch and a hooked end, and a spring acting upon said slide, substantially as described. 2nd. The combination with the coupling having ears with notches and openings, one of which is open at its upper side, of a handle having an extension with a cross-bar and a sliding-catch, substantially as described. 3rd. The combination with a coupling having ears with notches and openings, one of which is open at its upper side, of a handle having an extension with a cross-bar and a sliding-catch, provided with a trigger and with a stop-plate, substantially as described. 4th. The combination with a coupling having ears and openings, one of which is open at its upper side, of a handle having an extension with a cross-bar adapted to said openings, the handle being hooked at its other end and a spring-actuated slide for movement lengthwise of the handle and having a bevelled end to engage the notches of the coupling, substantially as described. 5th. The combination with a coupling having ears with notches and openings, one of which is open at its upper side of a handle having an extension with a cross-bar adapted to said openings, the handle being hooked at its other end and a spring-actuated slide for movement lengthwise of the handle and having a bevelled end to engage the notches of the coupling, and a spring connected with said slide to normally hold it in engagement with said notches, substantially as described.

No. 55,485. Sash Fastener. (*Arrête-croisée.*)

Herbert C. Oettinger and Jacob Wallenstem, both of Cincinnati, Ohio, U.S.A., 2nd April, 1897; 6 years. (Filed 22nd July, 1896.)

Claim.—1st. In a sash-fastener, the combination of a housing 7, with flanges for attachment and a cylindrical bore closed at one end, a slot 12 in the upper bored part of the housing, a locking-bolt confined in the bore of the housing, a spring between the closed end of the latter and the bolt, an operating knob 11 on the latter, its shank projecting through slot 12, a projection 17 on the outer bolt end, a notch 16 branching off from slot 12, a hook-shaped catch 13 below which the outer bolt-end is adapted to pass, and inclined surfaces