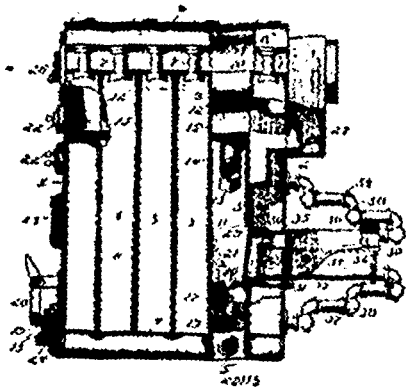
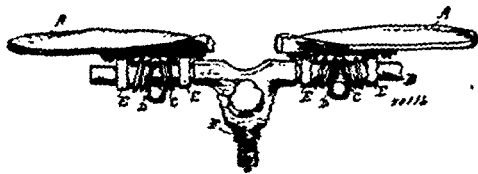


into the fire-box, and connections between the boiler and the said rear hollow extension, substantially as described. 4th. The com-



bination with a boiler furnace, of a movable water-back to vary the capacity of the fire-box, and swinging pipe connections connected by knuckle couplings, establishing communication between the water-back and the boiler, substantially as set forth. 5th. In a boiler furnace, the combination of a water-back adapted to operate through an opening in the side of the boiler and travel over the grate bars to vary the capacity of the fire-box, and having a rearwardly-projecting hollow extension, brackets having guide ways in their sides for the said rear extension to travel in, connections between the boiler and the water-back, and means for moving the water-back within the fire-box, substantially as described and for the purpose set forth. 6th. In combination, a boiler furnace, a water-back having a rear hollow extension, brackets having guides in their inner sides for the said rear extension to work in, connections between the boiler and the water-back, a rack bar secured to the said rear extension, a transverse shaft journaled in the brackets, and provided with a pinion to mesh with the said rack bar, and a plate to close that portion of the opening through which the water-back operates immediately below the said rear extension, substantially as set forth. 7th. The herein specified boiler, formed from a series of vertical sections placed side by side, a dome located above and water drums on each side of the sections, nipple connections between the water drums, the said dome and the individual sections, grate bars supported in lugs on the inner side of the upright portions of the sections, a water-back adapted to travel upon the said lugs and over the grate bars to reduce the capacity of the fire-box, and having a rear hollow extension, connections between the water-back and the rear boiler section, and means for operating the water-back, as and for the purpose set forth.

No. 30,116. Bicycle Seat. (*Siege de bicyclet.*)



Colonel Ellsworth Amsden and Wilbur S. Buras, both of Grand Rapids, Michigan, U.S.A., 1st October, 1895; 6 years.

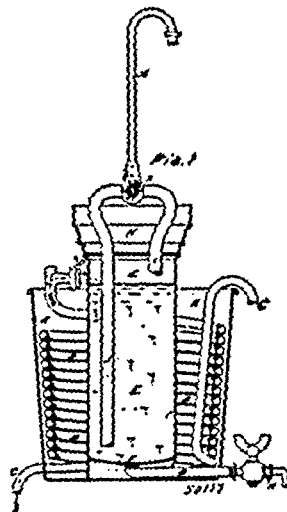
Claim.—1st. In a bicycle seat, the combination of two sections supported in a suitable manner, each section adapted to oscillate or rock independently of the other section, substantially as and for the purpose described. 2nd. In a bicycle seat, the combination of two parts adapted to oscillate independently, and a spring with each section adapted to return the section to normal position, substantially as described.

No. 30,117. Beer Cooler and Transformer.

(*Refrigerant à bière et transformateur.*)

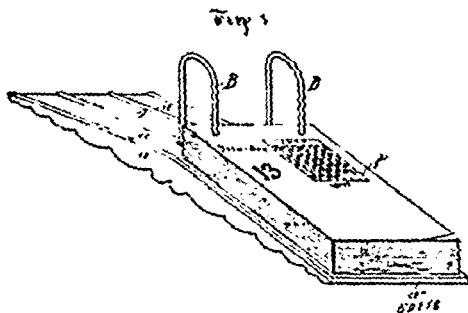
Thomas Burdett, Montreal, Quebec, Canada, 1st October, 1895; 6 years.

Claim.—The combination, in a beer cooler and transformer, of a cylindrical pot or tank E used as a reservoir, the two feeding tubes



I and J connected together by the double action stop-cock K, with the faucet M, the ordinary tub A, the interior surface of which is covered with a serpentine B, B which acts as a cooler, all substantially as and for the purpose set forth.

No. 30,118. Calendar. (*Calendrier.*)



The Eclipse Office Furniture Company, assignee of Clarence Ernest Mountford, all of Ottawa, Ontario, Canada, 1st October, 1895; 6 years.

Claim.—1st. In a desk calendar, the combination of a stamped sheet metal base having two sloping faces, a file wire consisting of two pairs of vertical uprights each pair connected at the top by an arch, and the two pairs connected at the bottom by a cross shank, having a downward bend resting in a groove slotted in the centre, and an eccentric swivel pivoted to the bottom of said base near said slot and adapted to extend across said slot between the plate and the bent part of the cross shank, substantially as set forth. 2nd. In a desk calendar, the combination with a base A stamped out of sheet metal, two sloping faces having stiffening ridges a^1 , sides a^2 , and end rolls a^3 , substantially as set forth. 3rd. In a desk calendar, the combination with a base having a sunk groove with slotted centre, of a file wire B having two pairs of uprights, each pair connected at the top by an arch and the two pairs connected at the bottom by a cross shank having a portion of it bent down, substantially as set forth.

No. 30,119. Automatic Vending Machine.

(*Appareil de vente.*)

Britten & Bradshaw, of Toronto, assignees of Walter Horace Grant, of Grimsby, all in Ontario, Canada, 1st October, 1895; 6 years.

Claim.—1st. In an automatic vending machine, the combination with the case suitably supported and provided with chutes with slots at their bottom ends, of a plunger H, and means for reciprocating such plunger opposite the slots of the desired chute and for impeding such plunger forward, as and for the purpose specified. 2nd. In an automatic vending machine, the combination with the case suitably supported and provided with chutes with slots at their bottom ends, of a plunger H supported on a suitable base and in a guide-rod, a pivoted swinging arm having slotted connection in the