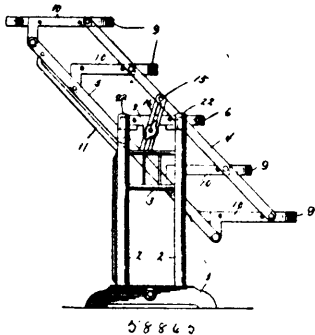


carries the sieve box, and partly in a detachable cap, both parts of the box being lined with antifriction metal. 5th. The combination of the crank pin having an enlarged head with the divided bearing box therefor having a portion extending above the top of the enlarged head of the crank pin so as to provide a chamber for the reception of lubricant.

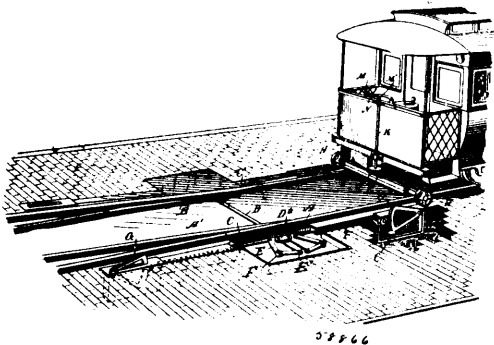
No. 58,865. Shelving and Table. (Rayon et table.)



Frederick Yunc, Bryan, Ohio, U.S.A., 2nd February, 1898; 6 years. (Filed 20th January, 1898.)

Claim.—1st. The combination with a supporting frame, side bars, and shelves pivoted to said side bars, of a fixed intermediate shelf, to which said side bars are pivoted intermediate their length, means for connecting said shelf to the supporting frame, sockets fixed to the under side of said shelf, apertured plugs in said sockets projecting beyond the outer edges of the same, a transverse shaft passing through said plugs and sockets, links pivoted to the side bars and engaged by said shaft and means on said shaft for clamping said links in any adjustable position against said plugs, substantially as set forth. 2nd. The combination with a supporting frame, side bars and shelves pivoted to said side bars, of a fixed intermediate shelf, to which said side bars are pivoted intermediate their length, means for connecting said shelf to the supporting frame, sockets fixed to the underside of said shelf and having annular shoulders at their inner ends, removable apertured plugs in said sockets limited in their movement therein by said annular shoulders and projecting beyond the outer edge of said sockets, a transverse shaft passing through said plugs and sockets, links pivoted to the side bars and engaged by said shaft, and means on said shaft for clamping said links in any adjusted position against said plugs, substantially as set forth. 3rd. The combination with a supporting frame embodying vertical uprights, side bars, and shelves pivoted to said side bars, of a fixed intermediate shelf to which said side bars are pivoted, a transverse shaft passing beneath the fixed shelf, and connected thereto by suitable means and projecting between the vertical uprights of the supporting frame, links pivoted to the side bars, and engaged by said shaft, means on said shaft for clamping said links in any adjusted position, and bracket attached to the fixed shelf and carrying sockets at their outer ends adapted to engage with the upper ends of said uprights, substantially as set forth.

No. 58,866. Switch. (Aiguille.)

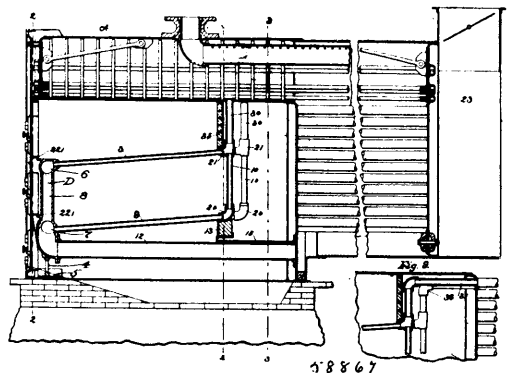


George Bansall, Lilly, Pennsylvania, U.S.A., 2nd February, 1898; 6 years. (Filed 17th January, 1898.)

Claim.—1st. The combination with the switch-points of a switch, a pair of bell-crank levers connected therewith, a pair of segments connected with said lever and arranged to present an inclined face, and suitable means carried by the car for engaging the segments to

shift the switch-points, substantially as shown and described. 2nd. The combination with the switch-points of a switch, a tie-rod connecting them, a bell-crank lever connected therewith, a segment connected with said lever and arranged to present an inclined surface to the track rails, and suitable means carried by the car to engage said inclined surface in order to shift the switch-points, substantially as shown and described. 3rd. The combination of the switch-points of a switch, a tie-rod connecting them, a casing located alongside of the switch, a bell-crank lever pivoted in said casing and connected with the tie-rod, a segment also pivoted in said casing connected with the bell-crank lever and arranged to present an inclined surface to the top of the casing, and suitable means carried by the car for engaging said segments to shift the switch-points, substantially as shown and described. 4th. The combination of the switch-points, means in connection therewith by which they are moved, means carried by the car for engaging them to shift the rails, substantially as shown and described. 5th. The combination of the switch-points of a switch, means in connection therewith for shifting them, said means being located on each side of the track and having pivoted segments connected therewith, a pair of wheels carried by the car for engaging said segments, and means in connection with the segments for shifting them, substantially as shown and described. 6th. The combination of the switch-points of a switch, means in connection therewith for shifting them, said means being located on each side of the track-rails and having segments adapted to be engaged by means carried on the car whereby the switch-points are shifted, said means consisting of a pair of wheels mounted on a shaft which is carried by a bracket, said shaft having means in connection with it for shifting it laterally in the bracket consisting of a pulley carried on the shaft or rod provided with the operating handle at one end and a rope or cord connected with the shaft near each end thereof, and having its middle portion passed around the pulley, substantially as shown and described.

No. 58,867. Boiler Furnace. (Fournaise de chaudière.)



Edward B. Parkhurst, Woburn, Massachusetts, U.S.A., 2nd February, 1898; 6 years. (Filed 17th January, 1898.)

Claim.—1st. A boiler furnace having an upper water grate composed of a series of tubes connected at their rear ends with the water space of the boiler by independent connections for the respective tubes, a water box or manifold with which the front ends of said grate tubes are connected, a lower water grate composed of a series of tubes connected at their front ends with a water box or manifold, a series of vertical connections whereby the rear ends of the said lower grate tubes are connected with the water space of the boiler, and supply pipes connecting said water box or manifold with the water space of the boiler, said upper series of tubes being of smaller diameter than the lower series, and with wider spaces between their peripheries than the lower series, substantially as set forth. 2nd. A boiler furnace having an upper water grate composed of a series of tubes connected at their rear ends with the water space of the boiler by independent connections for the respective tubes, a water box or manifold with which the front ends of said grate tubes are connected, a lower water grate composed of a series of tubes connected at their front ends with the said manifold, a series of vertical connections whereby the rear ends of the said lower grate tubes are connected with the boiler connections of the upper grate tubes, and supply pipes connecting said water box or manifold with the water space of the boiler, said upper series of tubes being of smaller diameter than the lower series, and with wider space between their peripheries than the lower series, substantially as set forth. 3rd. A boiler furnace having upper and lower water grates and suitable connections therefor with the water space of the boiler, and having a movable closure device located at the rear of the lower water grate tubes for closing the space between the rear ends of said lower water grate tubes and the adjacent surface of the furnace chamber, whereby the draft of the lower grate is prevented from passing below and behind said grate and is caused to pass upwardly through the same, said closure device being made movable in order to permit of cleaning behind the same, substantially as set forth.