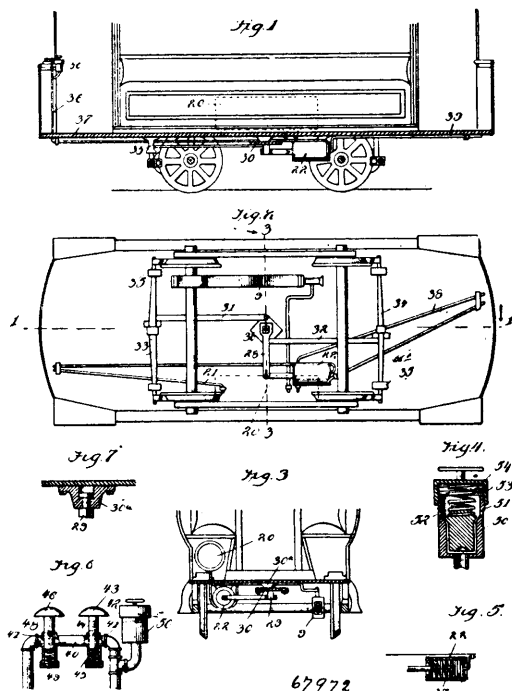


notches in the top edge of the plate, substantially as set forth. 2nd. The window bracket herein described, consisting of the carriage K having its upper end turned upward, a curved back piece, and suitable braces connecting the carriage and back piece, substantially as set forth. 3rd. The window bracket herein described, provided with a carriage for shelves, the lower riser of said carriage having an inverted T-shaped notch therein, and an ear or lug at right angles thereto, having a threaded perforation for the reception of a set screw, substantially as set forth. 4th. The combination with a window frame and a bead thereof of a bracket hanger, consisting of a plate of metal having a vertical flange at one end, to engage in the rear of the bead, and a horizontal flange at the bottom to engage below the bead upon the sill of the window frame, substantially as set forth. 5th. The combination of the bracket provided in its front face with an inverted T-shaped slot, with the hanger plate provided with notches in its upper edge and the flange at its bottom edge. 6th. The combination of the bracket, provided in its front face with an inverted T-shaped notch and on the side with an ear or lug having a threaded opening, with the hanger plate having a bottom flange and engaging in the T-shaped slot, and a set screw threaded in the ear or lug and engaging the face of the hanger plate, substantially as set forth.

No. 67,972. Street Car Brake. (Frein de chars de rue.)

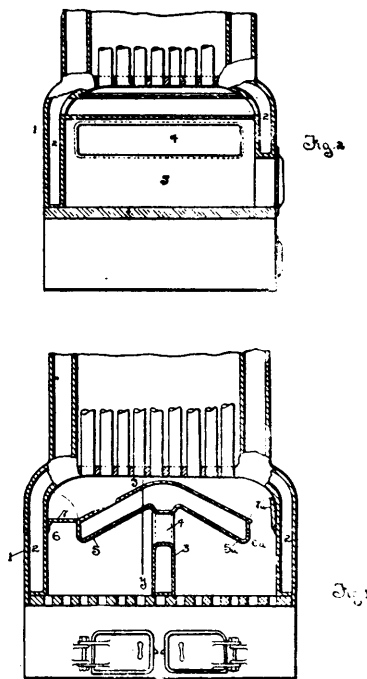


William Franklin Knell, Battle Creek, Michigan, U.S.A., 4th July 1900; 6 years. (Filed 18th June, 1900.)

Claim.—1st. In a car brake, the combination with a car axle of a pinion thereon, a parallel crank shaft, a gear wheel thereon meshing with the pinion, a pitman connected to said gear, a pump cylinder, a valveless piston on the free end of the pitman and adapted to reciprocate in the cylinder, the inlet check valve, the reservoir, a lock for the check valve brought into operation by the excess of pressure in the reservoir, a brake cylinder connected with the brake shafts, suitable pipes connecting the reservoir and brake cylinder valves in said pipes for controlling the passage of compressed air from the reservoir to the cylinder and suitable valves in said pipes, substantially as described. 2nd. The combination of the pump, of a gear wheel for operating the pump, a car axle, a pinion thereon meshing with the gear wheel for rotating it, the compressed air reservoir connected with said pump, the brake cylinder connected with the compressed air reservoir and suitable valves for controlling the passage of air from the reservoir to the brake cylinder located in said connections, substantially as shown and described. 3rd. The combination of the pump, a gear wheel connected to the pitman thereof, a car axle, a pinion thereon meshing with the gear wheel whereby the pump is operated, the compressed air reservoir connected with said pump, the brake cylinder, suitable pipe connections between said reservoir and brake cylinder, and the valve located in said connections for controlling the passage of air from the reservoir to the brake cylinder, said valve consisting of a plug provided with an opening adapted to register with the passage in the pipes, said plug working in a pipe cross which is fitted in the pipe connections, substantially as shown and described. 4th. The

combination of the pump operated from one of the car axles, the compressed air reservoir connected therewith, a brake cylinder connected with the air reservoir, a brake leverage having a connection with one of the brake shafts, an arm on said brake leverage having a connection with the other brake shaft and connection with the piston in the brake cylinder, substantially as shown and described. 5th. The combination of a pump operated from one of the car axles, the compressed air reservoir connected therewith, a brake cylinder connected with the brake shafts and with the compressed air reservoir, and suitable controlling valves located in the connections between the compressed air reservoir, and brake cylinder, substantially as shown and described. 6th. The combination with the valveless piston, of the cylinder having discharge and inlet openings in its head, an outward opening check valve in the discharge opening, the inlet pipe secured in the inlet opening and formed as a valve seat at its inner end, a valve adapted to said seat and to open inwardly, a stem for the valve extending into the inlet pipe, a perforated piston head at the outer end of the valve stem, a governor cylinder mounted upon and communicating with the inlet pipe, a spring supported piston head and rod in the governor, the rod being adapted to project transversely into the inlet pipe outside of and in the path of the valve stem when the pressure exceeds the strength of the spring, a curve pipe communicating between the discharge opening and the governor cylinder, and a pipe leading from the curved pipe to the air reservoir, substantially as described.

No. 67,973. Furnace. (Fournaise.)



Charles Murry Bump, Bay City, Michigan, U.S.A., 4th July, 1900; 6 years. (Filed 16th June, 1900.)

Claim.—1st. In a furnace, the combination with a grate, of a vertical partition dividing the grate surface into two parts, a gas passage through said partition, a hollow top for said partition extending laterally over the fire, and dampers for regulating the gas exit between the laterally extending top and the furnace wall, substantially as described. 2nd. In a furnace, the combination with a grate, of a vertical hollow partition dividing the grate surface into two parts and communicating with a water space surrounding the furnace, a water containing top for said partition extending laterally over a portion of the fire bed on each side of the partition, dampers for regulating the gas exit between the laterally extending top and the furnace walls, and a gas passage connecting the two parts of the grate surface, substantially as described.

No. 67,974. Wheeled Cultivator. (Cultivateur à roues.)

Elzéar Doré, Laprairie, Quebec, Canada, 4th July, 1900; 6 years. (Filed 18th June, 1900.)

Claim.—1st. In a wheeled cultivator, a means for adjusting the gang of teeth comprising a gear element on the machine axle, a bracket, a lever supported by the bracket, and means for locking the lever in place, substantially as and for the purposes set forth. 2nd. In a wheeled cultivator, a means for adjusting the gang of