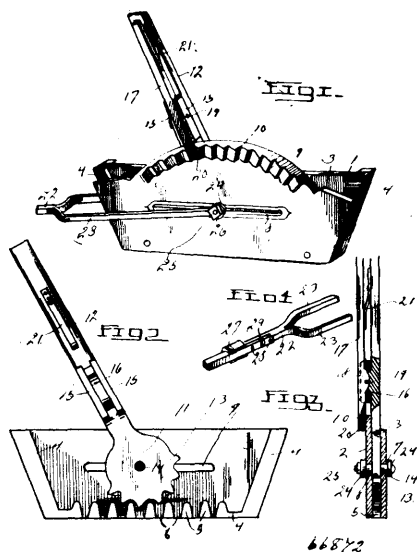


extending through an elongated slot in the reach, a brake rod pivotally secured at its front end to said arm, connections between said brake rod and brake beam, and means for permitting backing of the wagon, comprising a lever arranged transversely in front of the front bolster and pivoted at one end, formed with a depending lip at its centre and a treadle at its free end, and a catch for supporting the free end of said lever. 2nd. In a wagon brake, the combination with the brake beam, a longitudinally movable reach, and a brake rod connected by a lever and link to the brake beam, of a front bolster, a supplemental bolster below said front bolster, a lever fulcrumed at one end to said supplemental bolster, a lip depending from said lever, a treadle at the free end of said lever, and a catch supported in front of said lever, formed with a shoulder upon which the free end of the lever normally rests.

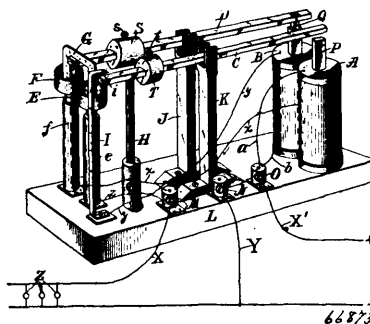
No. 66,872. Wagon Brake. (*Frein de wagon.*)



Enoch T. Robertson, El Dorado Springs, Missouri, U.S.A., 2nd April, 1900; 6 years. (Filed 7th February, 1900.)

Claim.—1st. In a brake lock, the combination of a support having slots arranged in parallel alignment in opposite portions thereof and also provided with outer and inner projections, a brake lever having a fulcrum in the said slots of the support and provided with devices for engaging the said projections, and a brake rod attached to the fulcrum of the lever. 2nd. In a brake attachment, the combination of a support having slots in opposite sides thereof and inner and outer projections arranged in different engaging planes, a brake lever having a fulcrum movably mounted in the said slots and its lower end meshing with the inner projections, a movable device on the brake lever to engage the outer projections, and a brake rod attached to the fulcrum of the brake lever. 3rd. In a brake attachment the combination of a support having elongated slots in opposite sides thereof in parallel relation and also formed with a lower series of ratchet teeth, a brake lever having a tubular fulcrum mounted in said slots and also provided with a segmental toothed head, a brake rod having a forked end movably embracing said tubular fulcrum, and a fastening movably inserted through the opposite portions of said forked end of the brake rod and fulcrum. 4th. A brake lock, comprising a recessed back plate having teeth in the lower portion thereof with open spaces between them and also provided with a slot in the side, a face plate having a slot in its side in parallel relation to the slot of the back plate and also formed with a series of ratchet teeth, a brake lever having a head with a fulcrum in the said slots and teeth on its lower edge to engage the teeth in the lower portion of the back plate, and a dog movably attached to said lever and adapted to engage the ratchet teeth on the face plate. 5th. A brake lock comprising a recessed back plate having teeth in the lower portion, a face plate provided with ratchet teeth on the upper exterior portion, a brake lever with a lower head having teeth meshing with the teeth of the back plate, and a fulcrum bearing in both plates, and a dog on the brake lever to co-act with the ratchet teeth on the face plate. 6th. A brake lock comprising a recessed back plate having teeth in the lower portion with openings between them, a face plate, a brake lever having a head fulcrumed in both of said plates and provided with peripheral teeth to engage the teeth of the back plate, and means on the brake lever to co-act with the teeth on the face plate. 7th. A brake lock comprising a support having longitudinal slots in opposite portions in parallel relation, a brake lever having a tubular fulcrum mounted in said slots, a brake rod having a forked end embracing said support, and a fastening extending through the opposite portions of the forked end of the brake rod and the said fulcrum.

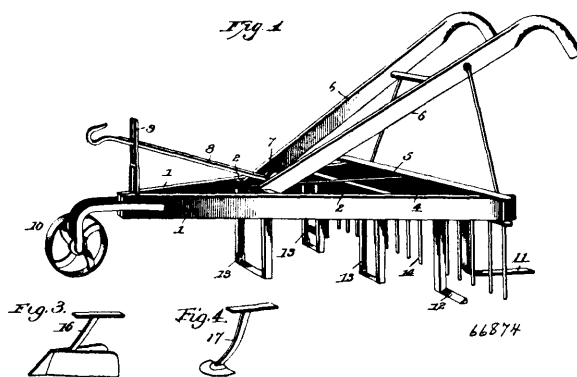
No. 66,873. Controller for Electric Light.
(*Contrôleur pour lumières électriques.*)



Orra Mell Lacey, Hanford, California, U.S.A., 2nd April, 1900; 6 years. (Filed 23rd February, 1900.)

Claim.—1st. The combination of an electric circuit, lights in said circuit, and automatic make-and-break devices, whereby if more lights than a fixed number are traversed by the electric current, said lights will be alternately lighted and extinguished in rapid succession, substantially as described. 2nd. The combination of a main electric circuit, lights in said circuit, a shunt circuit and automatic make-and-break devices located in said circuits, the parts being so arranged that an increase of current through said make-and-break devices beyond a certain limit will break-and-make the main circuit in rapid succession, substantially as described. 3rd. The combination of a main electric circuit, lights in said circuit and automatic make-and-break devices, one being located in each circuit, said main circuit being normally uninterrupted until lights in excess of a certain number are turned on, whereupon the increase of current in the main circuit caused thereby makes the shunt circuit, breaks the main circuit, breaks the shunt circuit and makes the main circuit, in rapid succession, substantially as described. 4th. The combination of a main circuit, lights therein, a shunt-circuit and an automatic controlling device in each circuit, consisting of an electric magnet, a weighted lever and electrical connections, the parts being so arranged that the passage of a current above a certain strength in the main circuit, will make the shunt circuit, break the main circuit, break the shunt circuit and make the main circuit, in rapid succession, substantially as described.

No. 66,874. Cultivator, Harrow and Hiller.
(*Cultivateur, herse, etc.*)



Alexander Theodore Fischer and Edwin Charles Lewis, both of Detroit, Michigan, U.S.A., 2nd April, 1900; 6 years. (Filed 19th March, 1900.)

Claim.—1st. A combined gang cultivator involving the combination of a triangular frame, a wheeled gauge in front of the frame, adjustable gauges at the rear of the frame and interchangeable cutters and hillers, substantially as described. 2nd. In gang cultivators, the combination of a frame, gauges in front and rear for regulating the depth of the work, interchangeable cutters and hillers arranged in rows in the frame, and a rake adjustably connected with the frame, substantially as described. 3rd. For combined gang cultivators, the combination of a frame, interchangeable cutters and hillers arranged in rows in the frame, gauges in front and rear for regulating the depth of the work, a removable rake, and a draft appliance attached to the middle of the frame, substantially as described. 4th. For the combined gang cultivators, the combination of a frame, a draft appliance attached to the middle of a frame by a bifurcated riser or bracket, and a guide also connected to the frame for holding the draft bar in proper alignment, substantially