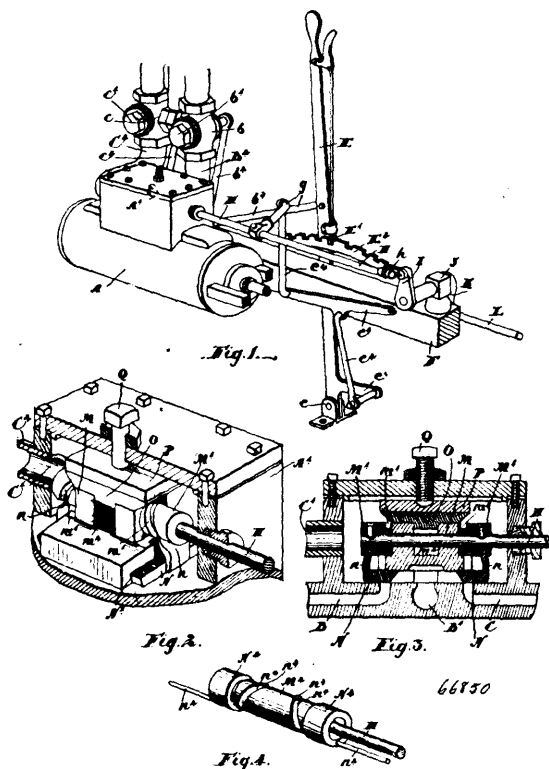
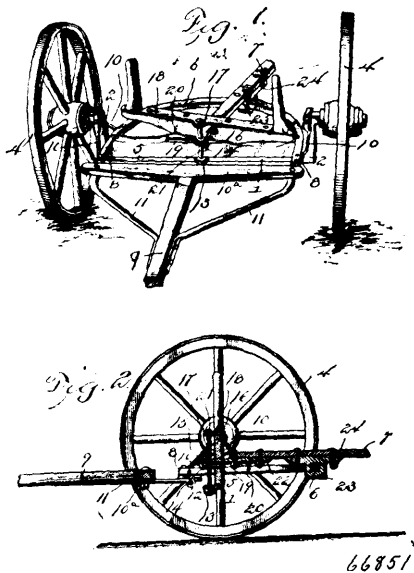


to the lateral projection of the operating lever, the arm on the valve rod and the rod connecting such arm to the lever pivoted on the



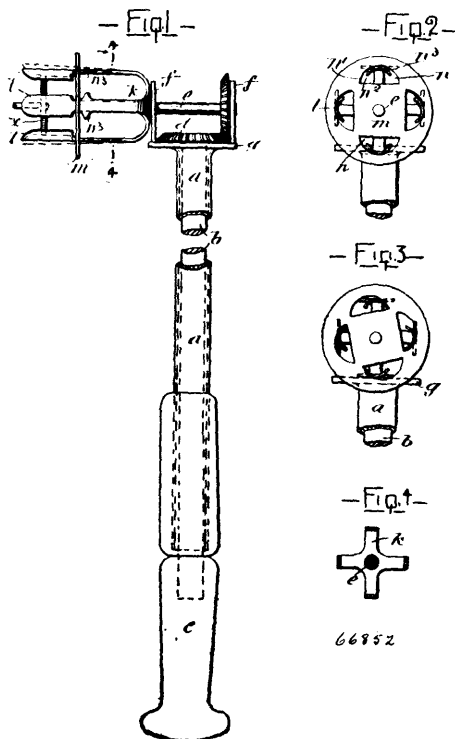
frame as and for the purpose specified. 5th The combination with the cylinder provided with inlet ports, the steam chest and the adjustable portion of the valves, of the block M¹ provided with serpentine grooves *m*, the block O fitting in a recess in the block M, the block F fitting in the block O and the set screw extending through the valve chest into the recess in the block P, as and for the purpose specified.

No. 66,851. Running Gear. (Train.)



bolt passing through the said ears, a substantially semi-circular bar extending rearward from the axle and having its terminals projecting forwardly therefrom, a pole coupled to the ends of the curved bar, and a reach provided with a depending eye receiving the curved bar, substantially as described. 2nd. A device of the class described, comprising a drop axle having an axle bed, a substantially semi-circular bar extending rearward from the axle and having its terminals projecting forwardly therefrom, a pole coupled to the end of the curved bar, side braces extending from the arms of the axle to the bar, a bolster mounted upon the axle, and a reach provided with a depending eye receiving the curved bar, substantially as described. 3rd. A device of the class described, comprising a drop axle having upwardly extending I-shaped terminating in horizontal spindles, an axle bed 5, secured to the axle and arranged between the vertical portions of the arms, the substantially semi-circular bar extending rearwardly from the axle and having its sides interposed between the ends of the axle bed and the said arms, the side braces extending from the tops of the arms to the said bar, a reach, and a pole, substantially as described.

No. 66,852. Trainmen's Lamp Handling Appliance. (Appareil à manier les lampes d'employés de chemin de fer.)



Reuben Henry Welden, Montreal, Quebec, Canada, 31st March, 1900; 6 years. (Filed 2nd May, 1899.)

Claim.—1st. An appliance for turning the device for controlling the supply of an illuminant, comprising a rotatory gripping device, means for causing said rotatory device to grip said controlling device, and means for rotating said gripping device. 2nd. An appliance for turning the device for controlling the supply of an illuminant comprising a rod or handle proper, fingers carried at one end of the rod or handle, and adapted to grip said controlling device and means with operating mechanism for causing said fingers to grip said device and rotate same, for the purpose set forth. 3rd. An appliance for turning a rotary device for controlling the supply of an illuminant, comprising a rod or handle, flexible fingers carried at one end of said rod or handle and adapted to grip said controlling device, a rotatable cam disc engaging each of said fingers to cause them to grip said device, and means for rotating said cam disc, substantially as described and for the purpose set forth. 4th. An appliance for turning a rotary device for controlling the supply of an illuminant comprising a main tubular rod or handle, an operating shaft extending throughout the tubular rod, a countershaft supported by the upper end of the tubular rod operating gear connected between said shafts, a cam disc carried rigidly by said countershaft, and a series of flexible fingers extending from a body portion, mounted loosely on the countershaft, and extending through cam slots in the cam disc, whereby upon the rotation of the latter said fingers will be pressed centrolineally to grip said controlling device and rotate same, as set forth.

Charles A. McNaughton, Sprague's Mills, Maine, U.S.A., 31st March, 1900; 6 years. (Filed 25th January, 1900.)

Claim.—1st. A device of the class described, comprising an axle provided at its bottom with a forwardly projecting ear and having an axle bed, a bolster, bearing plates interposed between the bolster and the axle bed, and provided with ears arranged in alignment with the ear of the axle, an upper plate provided with an ear, a king