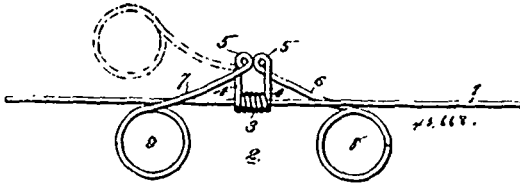


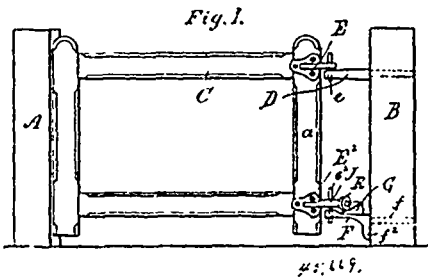
No. 45,668. Clothes Pin. (Epinglé à linge.)



William C. Poppowell, Eureka Springs, Arkansas, U.S.A., 2nd April, 1894; 6 years.

Claim. 1st. A clothes pin or retainer, formed of a single piece of spring wire, comprising a central sleeve engaging the line, and two opposite spirals engaging a garment and binding it securely upon the line, substantially as described. 2nd. A clothes pin or retainer, formed of a single piece of spring wire, comprising a central sleeve or tube formed by bending the wire spirally, the spring hinges formed also by bending the wire spirally upon itself, and located above the sleeve end at the opposite ends thereof, and spring arms extending longitudinally of the sleeve and outward therefrom, and spirals formed at the ends of each spring arm by convoluting or coiling the ends of the wire, substantially as described. 3rd. A clothes pin or retainer, formed of a single piece of spring wire, comprising a spirally formed tube or sleeve, an arm or brace extending upwardly from each end of said sleeve coils, formed by bending the wire at the upper ends of said arms or braces, longitudinal arms extending divergently downward from said coils, and spirals formed of two or more convolutions or coils, to form longitudinally aligned spaces for the reception of the garment and the line, at the lower and outer ends of the said divergent spring arms, substantially as described.

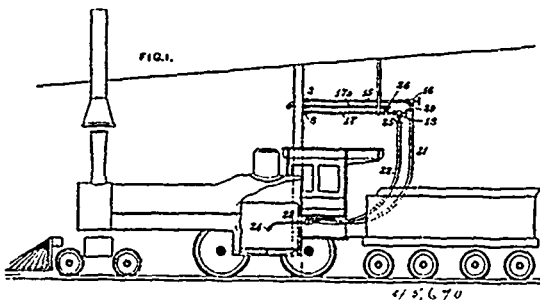
No. 45,669. Gate Hinge. (Penture de barrière.)



Joseph Alexis Robillard, St. Andrew, Quebec, Canada, 2nd April, 1894; 6 years.

Claim.—1st. In a gate hinge, the combination with an arm secured to the gate post, carrying at its outer end an eye, and having a semi-circular track formed of two inclined planes meeting at the highest point, of a bracket secured to the style of the gate, having an arm at an obtuse angle to the gate, carrying a pin adapted to engage the said eye, and having a friction pulley on the end of the said arm, adapted to travel on the said track, substantially as set forth. 2nd. In a gate hinge, the combination with the bracket E', having a pin c', extending both above and below the said bracket, an arm carrying at its end a friction pulley K, of the arm F, having a threaded shank f, and foot f', an eye b, adapted to receive the said pin c', and the semi-circular track formed of the two inclined planes H and I, substantially as set forth.

No. 45,670. Locomotive Fire Kindling Apparatus. (Allumoir pour locomotives.)

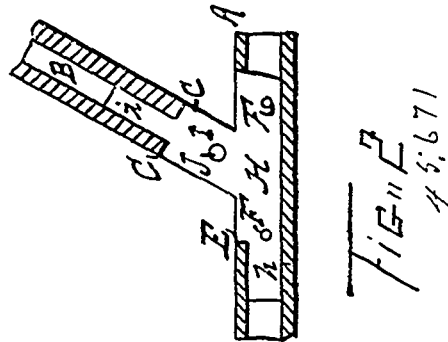


James McNaughton, Waukesha, Wisconsin, U.S.A., 2nd April, 1894; 6 years.

Claim.—1st. The combination in a fluid distribution apparatus for kindling locomotive engine fires, of a main fuel reservoir, a fuel

service pipe leading from said reservoir to a higher level, a delivery pipe leading from the fuel service pipe, a system of piping leading from a source of fluid pressure supply to the main fuel reservoir, and a regulating cock fitted in said system of piping and controlling the application of pressure to fluid fuel in the reservoir for effecting the discharge thereof through the fuel service pipe and delivery pipe, and the release of pressure therefrom for effecting the return of fluid by gravity from the fuel service pipe to the reservoir, substantially as set forth. 2nd. The combination in a fluid distribution apparatus for kindling locomotive engine fires, of a main fuel reservoir, a source of fluid pressure supply, a fuel service pipe leading from said fuel reservoir, and provided with delivery pipes at different points in its length, a system of piping connecting the fuel reservoir and source of fluid pressure supply, and a series of regulating cocks controlling said system of piping, whereby the application and release of fluid pressure to and from fluid fuel in the fuel reservoir, for discharge of fluid fuel from a delivery pipe and for return to the reservoir respectively, may be effected at or adjacent to either of the delivery pipes, substantially as set forth. 3rd. The combination in a fluid distribution apparatus for kindling locomotive engine fires, of a main fuel reservoir, a source of fluid pressure supply, a fuel service pipe leading from said fuel reservoir, and provided with delivery pipes at different points in its length, a system of piping connecting the fluid reservoir and source of fluid pressure supply, and provided with a series of fluid pressure delivery pipes at different points in its length, and a series of regulating cocks controlling said system of piping, whereby the application and release of fluid pressure to and from fluid fuel in the fuel reservoir, for discharge from a fuel service delivery pipe and for return to the reservoir respectively, and the coincident institution and stoppage respectively, of a discharge of fluid under pressure from a delivery pipe of the system of connecting piping may be effected at or adjacent to either of the delivery pipes, substantially as set forth. 4th. The combination in a fluid distribution apparatus for kindling locomotive engine fires, of a main fuel reservoir, a source of fluid pressure supply, a connection from the source of fluid pressure supply to the fuel reservoir and to the burner or mixer, and a valve device which controls the passage of fluid under pressure to the reservoir and to the burner or mixer, whereby fluid fuel and fluid from the source of fluid pressure supply are simultaneously delivered to the burner, substantially as set forth. 5th. The combination in a fluid distribution apparatus for kindling locomotive engine fires, of a main fuel reservoir, a fuel service pipe leading therefrom, a supply pressure pipe, a service pressure pipe leading into the main reservoir, a regulating cock controlling communication between the supply pressure pipe and service pressure pipe, and controlling a release port from the service pressure pipe, and a delivery pipe leading from the fuel service pipe, substantially as set forth. 6th. The combination, in a fluid distribution apparatus for kindling locomotive engine fires, of a main fuel reservoir, a fuel service pipe leading therefrom, a supply pressure pipe, a service pressure pipe leading into the main reservoir, a regulating cock controlling communication between the supply pressure pipe and service pressure pipe, and controlling a release port from the service pressure pipe, and delivery pipes leading from the fuel service pipe and service pressure pipe, respectively, substantially as set forth. 7th. The combination, in a fluid distribution apparatus for kindling locomotive engine fires, of a main fuel reservoir, a fuel service pipe leading therefrom, a supply pressure pipe, a service pressure pipe leading into the main reservoir, a regulating cock controlling communication between the supply pressure pipe and service pressure pipe, and controlling a release port from the service pressure pipe, and a series of delivery pipes leading from the fuel service pipe and service pressure pipe respectively, these members being combined for joint operation to admit of the delivery of liquid fuel and fluid under pressure at any desired point of discharge, substantially as set forth.

No. 45,671. Pipe Coupling. (Joint de tuyaux.)



James S. Johnson, Almont, Michigan, U.S.A., 3rd April, 1894; 6 years.

Claim.—1st. A pipe coupling consisting of a pipe slotted through one wall, another pipe slotted at its end, and a sheet metal coupling