said channels simultaneously at opposite sides of said enclosed portion, substantially as described. 7th. The combination with a canal having a lock portion, of a series of auxiliary channels having connection with said canal and said lock portion and independently operated valves located in each of said channels, each of said valves being located on a plane above the bottom of said lock portion, said valves being located on the same plane, whereby the water will be passed downward through said valves, and said lock portion will be prevented from becoming entirely empty through the medium of said channels, substantially in described. 8th. A canal lock comprising a series of gates located in said canal, auxiliary channels connected to said canal, transverse channels formed in series connecting said auxiliary channels and said portion between the gates, each series having its openings in said portion, arranged at opposite sides of the bottom thereof, substantially as described. 9th. A valve for canal locks, comprising a plate having perforations secured to said lock, a plate having similar perforations adapted to be movable against one side of said stationary plate, a truck arranged to support said movable plate, and means for moving said truck, substantially as described. 10th. A gate for canal locks, comprising a series of bars having great tensile strength interposed between layers of less tensile strength, and bars secured to the sides of bars and said layers in a direction at right angles to said bars and layers, substantially as described. 11th. The combination with a canal, having a channel extending across the bottom thereof, said channel being provided with rolls, of a gate located in said canal over said channel, the lower face of said gate being adapted to rest on said rolls, and means for moving said gate backwards and forwards on said rolls, substantially as described. 12th. The combination with a canal, having a channel extending across the bottom thereof, said channel being provided with rolls, of a gate located in said canal over said channel, said gate being provided with a track on its under face, said track being adapted to rest on said rolls, and means located on one side of said canal and having connection with said gate for moving said gate backward and forward on said rolls, substantially as described. 13th. The combination with a canal, of auxiliary channels having connection with said canal, and independently operated valves located in said channel, said valves being located on the same plane, whereby the water will be passed downward through said valves, substantially as described. 14th. The combination with a canal gate, of a bar located in front of said gate, and yielding buffers secured between said bar and said gate, substantially as described. 15th. The combination with a canal gate, of a bar located in front of said gate, and a series of spring buffers secured between said gate and said bar, substantially as described. 16th. The combination with a canal, of auxiliary channels connected thereto, and connections between said channels and the lock portion of said canal, said connections being arranged to deliver water to and from said lock portion and on both sides thereof from said channels independently or collectively, substantially as described. 17th. The combination with a canal, of auxiliary channels connected thereto, controllable ports to and from said channels whereby said channels may be used independently or collectively, and connections between said channels and the lock portion of said canal, said connections from each channel being arranged to deliver water to and from said lock portion and on both sides thereof whereby water will be admitted on both sides of said lock portion from either or both of said channels, substantially as described. 18th. The combination with a canal, of an auxiliary channel connected therewith, a lock portion formed in said canal contiguous to said channel, and transverse channels leading from said channel to said lock portion, each alternate transverse channel having its opening in said lock portion arranged on the same side of said portion, substantially as described. 19th. The combination with a canal, of an auxiliary channel connected therewith, a lock portion formed in said canal contiguous to said channel, and a series of transverse channels connecting said channel and said lock portion, each series of channels having their openings in said lock portion arranged alternately on opposite sides of said portion, substantially as described. 20th. The combination with a canal, of auxiliary channels connected therewith, controllable ports independently operated between said canal and said channels, a lock portion formed in said canal contiguous to said channels, and transverse channels leading independently from each of said channels to said lock portion, each alternate transverse channel leading from the same channel having its opening in said lock portion arranged on the same side of said portion, substantially as described. 21st. The combination with a canal, of auxiliary channels connected therewith, controllable ports independently operated between said canal and said channels, a lock portion formed in said canal contiguous to said channels, and a series of transverse channels connecting each of said channels to said lock portion, each series of channels leading from the same auxiliary channel, having their openings in said lock portion arranged alternately on opposite sides of said portion whereby water will be admitted to said lock portion at both sides thereof regardless of the number of auxiliary channels used, substantially as described.

No. 60,750. Carriage Jack. (*Chèvre de carrosserie.*)

Allan Quarrie, Oak Lake, Manitoba, Canada, 2nd August, 1898; 6 years. (Filed 23rd April, 1898.)

Claim.—A carriage jack, provided at one end with a semi-circular rest D, a suitable handle at its other end, and a depending hook E

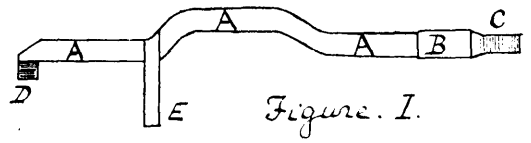


Figure. 1.

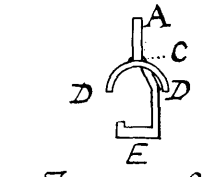


Figure. 2.

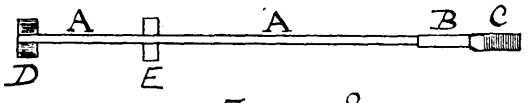


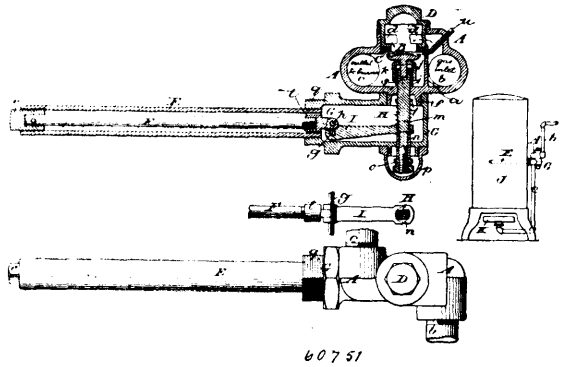
Figure. 3.

60750

intermediate of its length, the lever portion being bent, substantially as and for the purpose described and hereinbefore set forth.

No. 60,751. Thermostatic Gas Regulator.

(*Régulateur à gaz thermostatique.*)



60751

John Seely Coe, Paterson, New Jersey, U.S.A., 2nd August, 1898; 6 years. (Filed 14th April, 1898.)

Claim.—1st. In a thermostatic gas regulator, the combination of a thermostat, a valve box, and a valve seat therefor in said box, a valve operating spindle capable of a longitudinal movement independently of the valve and forming a connection between the thermostat and the valve, a guide for said spindle, consisting of a fixed socket projecting within the valve box, a screw cap on said socket forming both a guide for the stem of the valve and an adjustable stop to limit the opening of the valve, substantially as herein described. 2nd. In a thermostatic gas regulator, the combination of a thermostat, a valve box, a valve and a seat therefor in said box, a valve-operating spindle in line with the stem of the valve and capable of a longitudinal movement independently of the valve, a lever connecting said spindle with the thermostat, a stop in the valve box for limiting the opening movement of the valve, and a screw adjustment between said lever and spindle for adjusting the said spindle to the valve, substantially as herein described. 3rd. In a thermostatic gas regulator, the combination of a tube constituting one member of a thermostat and having one end closed and at the other end a hollow head piece, a valve box mounted on said hollow head piece, a valve in said box, a valve-operating spindle passing between the said hollow head piece and valve box and capable of a longitudinal movement independently of the valve, a rod constituting the other member of a thermostat attached to the closed end of said tube and passing through its other end to said hollow head piece, a lever in said hollow head piece connecting the said spindle with the said rod, and means for adjusting said spindle to said lever and valve, substantially as herein described.