

No. 26,399. Valve for Water Closets, etc.*(Valve pour lieux à l'anglaise, etc.)*

William Scott, Malden, Mass., U.S., 5th April, 1887; 5 years.

Claim.—1st. The combination, with the this charge-pipe B of a tank, of a chambered valve D having an air-passage L leading from its chamber downward into said discharge-pipe, and a suitable water-passage H, substantially as described for the purpose specified. 2nd. The combination, with the discharge-pipe B of a tank, of a chambered valve D having a suitable air-passage leading therefrom, and a water-passage H making connection with a discharge pipe K, substantially as described for the purpose specified. 3rd. The combination, with the discharge-pipe B of a tank, of a chambered valve D having an air-passage L leading from its chamber downward into said discharge-pipe B, and a water-passage H making connection with a discharge pipe K, substantially as described for the purpose specified. 4th. The combination, with a tank for liquid, an outlet or discharge-pipe for the liquid, and a valve to said outlet-pipe, of a reciprocating lever for operating said valve, and having faces d_2 , a_2 , and of an abutment for said lever connected to the valve and having faces f_2 , n , and said lever and said abutment adapted in one movement of said lever for said lever to work by its face d_2 against the face f_2 of said abutment, and thus to lift and open the valve and then to escape therefrom and leave the valve free to close, and in the other movement of said lever for said lever to work by its face a_2 against the face n of said abutment, and thus to again lift and open the valve and then to escape therefrom and leave the valve free to close, substantially as described. 5th. The combination, with a tank for liquid, and an outlet or discharge pipe for the liquid, and a valve to said outlet-pipe, of a reciprocating lever for operating said valve and having faces d_2 , b_2 , a_2 , and of an abutment for said lever connected to the valve and having faces f_2 , m , n , and said lever and said abutment adapted in one movement of said lever for said lever to work by its face d_2 against the face f_2 of said abutment, and thus to lift and open the valve and then to escape therefrom, and also the face b_2 of said lever from the face m of said abutment and leave the valve free to close, and in the other movement of said lever for said lever to work by its face a_2 against the face n of said abutment, and thus to again lift and open the valve, and then to escape therefrom leaving the valve free to close and to bring the faces d_2 , b_2 of the lever and the faces f_2 , m , of the abutment into position for operation, substantially as described. 6th. The combination, with a valve to a water-passage B, of an operating lever U and a valve lever R which is connected to said valve, and both levers constructed and arranged substantially as described, whereby from the movement of the operating lever in opposite directions, the valve lever is moved in the same direction, for the purpose specified. 7th. The combination, with a tank for liquid, an outlet and discharge pipe for the liquid, and a valve to said outlet-pipe, of a reciprocating lever for operating said valve and having faces d_2 , a_2 , and of an abutment for said lever which is carried by a reciprocating lever connected to the valve, and has faces f_2 , n , and said lever and said abutment adapted in one movement of said lever for said lever to work by its face d_2 against the face f_2 of said abutment, and thus to lift and open the valve and then to escape therefrom and leave the valve free to close, and in the other movement of said lever for said lever to work by its face a_2 against the face n of said abutment, and thus to again lift and open the valve and then to escape therefrom and leave the valve free to close, substantially as described. 8th. In combination, with a valve, of a water-passage B, a valve-lever R connected to said valve and provided with bearing-surfaces f_2 , m and n , and an operating lever U to operate lever R, and provided with bearing-surfaces d_2 , b_2 and a_2 which are arranged in relation to each other and to the said bearing-surfaces of valve lever, and said levers arranged in relation to each other, and the whole operating from the forward and backward movement of operating lever U, substantially as and for the purposes specified. 9th. In combination with a valve for opening and closing a passage B, the operating lever U having bearing-surfaces d_2 , b_2 , a_2 , weighted arm V, elongated bearing q , fulcrum-pin r and abutment B₂, and the valve lever R having bearing-surfaces f_2 , m , n , fulcrum h and abutment T₂, substantially as and for the purposes and operations described. 10th. The combination, with a tank for liquid, an outlet-pipe for the liquid, and a valve to said outlet-pipe, of two pivoted levers for operating said valve, one lever being provided with a nose C₂ having three bearing faces d_2 , b_2 and a_2 , and the other with a nose A₂ having bearing-surface f_2 , and a nose T having bearing-surface m and separating notch or depression P, substantially as described for the purposes specified. 11th. The combination, with a tank for liquid, an outlet-pipe for the liquid, and a valve to said outlet-pipe, of two pivoted levers for operating said valve, one lever provided with a nose C₂ having bearing-surfaces d_2 , b_2 and a_2 , a sliding pivotal point and a supplementary fulcrum e , and the other with a nose A₂ having bearing surface f_2 and a nose T having bearing-surface m and separating notch or depression P, substantially as described for the purpose specified. 12th. In a tank for liquid, a discharge or outlet-pipe for the liquid, a guided valve to said outlet-pipe adapted to be opened and closed, and a pipe which enters said outlet-pipe below the seat of its valve and is adapted to make communication between the liquid passage of said outlet-pipe and the external air, in combination with a valve or partition located in said outlet-pipe below the seat of its valve and adapted to reduce the area of the liquid passage of said outlet-pipe, substantially as described for the purpose specified. 13th. The combination, with a tank for liquid, an outlet-pipe for the liquid, a valve to said outlet-pipe having liquid and air passages, the air-passage extending into the outlet-pipe, and the valve adapted to be opened and closed, and an air-pipe separate from the air-passage of the valve and leading from the outside of the liquid in the tank to the outlet-pipe below the seat of the valve to said pipe, of a valve plate or partition located within the outlet-pipe near its valve-seat, and in relation to said air-passage of the valve, substantially as described for the purposes specified. 14th. The combination, with a tank for liquid, an outlet-pipe B for the liquid having a valve adapted to be opened and closed, and an air and overflow-pipe C connected to said outlet-pipe through a boss or side projection D₂ thereof, in combination with a slide-plate E₂ adapted to regulate the size of the opening of the outlet-pipe for the

passage of liquid from the tank, substantially as described for the purposes specified.

No. 26,400. Hay and Grain Cock Weather Shield (Rick). *(Couverture de meule de foin et de grain.)*

John A. Symmes and Luther R. Symmes Sherbrooke, Que., 5th April, 1887; 5 years.

Claim.—1st. As an improved article of manufacture, the herein-described concavo-convex flexible cover for hay and grain cocks, when the same is constructed of paper pulp in sheets, and moulded to shape between dies and provided with holes for guys, substantially as set forth. 2nd. The combination of the concavo-convex flexible cover A, having eyelets C around the peripheral edge, cords or guys D and pins E, as set forth.

No. 26,401. Corn Sheller. *(Egreoir à Blé d'Inde.)*

Aschel H. Patch, Clarksville, Tenn., U.S., 5th April, 1887; 5 years.

Claim.—1st. The combination, in a corn-sheller, of the toothed offset and bevel-edged wheel C, spring-pressed shell F, provided with spiral ribs, and with the guide o and the chute G arranged at an angle with the shell F, and having the finger p , substantially as herein shown and described. 2nd. In a corn sheller, the combination of the frame A formed of the yoke a , and cross-bar b carrying the sleeve c , the offset and bevel-edged toothed wheel C, the shell F having spiral ribs l , openings m and the guide o and the inclined chute G having the finger p , substantially as herein shown and described. 3rd. The combination, with the toothed wheel C and frame A, provided with perforated ears, of the shell F provided with pivot arms f , h , the bolt k projecting from the frame and provided with the wing nut i and the spring g placed between the wing nut and the arm f , substantially as herein shown and described.

No. 26,402. Carriage Train. *(Train de Voiture)*

Charles Laforce, St. Jérôme, Que., 5th April, 1887; 5 years.

Réclame.—Un train métallique pour voitures à deux essieux composé de l'essieu postérieur A A, fait de deux portions et recourbées en c de manière à donner la barre centrale D réunie à la pièce F en G A au dessus de l'essieu antérieur, et ayant en outre les renforts h , H, reliant le sus dit essieu A A à la susdite barre centrale D, le tout tel que ci-dessus décrit A moutre au dessin ci-annexé.

No. 26,403. Attachment for Sulky Ploughs. *(Disposition aux Charrues à Siège.)*

Joshua R. Randabaugh, Celina, Ohio, U.S., 5th April, 1887; 5 years.

Claim.—In combination with a sulky cultivator, having beams L and standards J, the cross-bar T secured to the tongue in front of the wheels, the hinged frames B outside the wheels having standards D, the diagonal extension bars B₁ provided with post C, the cross-bars E pivoted upon standard D and post C and hinged to the beams L, the cords F and cross-bar M, substantially as shown and described.

No. 26,404. Portable Frog and Car Replacer for Railroads. *(Rail de Raccordement Portatif pour Remettre sur la Voie les Chars de Chemins de Fer.)*

William O. Cooke, Providence, R.I., U.S., 5th April, 1887; 5 years.

Claim.—1st. The two-part portable frog or car-replacer, herein described, consisting of the castings A, B, constructed with the converging flanges 2, 8, adapted to be clamped together on opposite sides of the rail, as explained. 2nd. The casting A, consisting of the convex base or bridge-piece 1, the convex upwardly-projecting flange 2, terminating in an inclined tongue piece 3, and an inclined heel 4, in combination with the separate flange-bar 8 secured to the bridge-piece 1, substantially as herein shown and described. 3rd. The combination of the bridge-piece 1, longitudinal flange 2, heel-piece 4, vertical shoulder 5, separate flange-bar 8, heel-piece and vertical shoulder 10, substantially as and for the purposes set forth.

No. 26,405. Sled. *(Traineau.)*

Henry Meek, Oregon, Ill., U.S., 5th April, 1887; 5 years.

Claim.—1st. In sled or sleigh runners, a U-shaped beam curved in the form desired for the runner, combined with sleigh-knees rigidly attached to or formed integrally with said runners. 2nd. In a sled or sleigh, the combination, with a suitably-curved runner, having in it a series of apertures, of a shoe lying beneath the runner and provided with integrally-formed lugs projecting upward through said apertures, and keys for preventing the escape of said lug from said apertures. 3rd. A sled or sleigh, having runners U-shaped in cross-section, said runners being provided with apertures adapted to receive attaching lugs upon the sleigh-shoes, substantially as set forth. 4th. A sled runner consisting of a curved U-shaped beam, perforated at intervals, a cast shoe, provided with integrally-formed loops upon its upper surface at intervals corresponding to those between said perforations, and suitable keys for insertion in said loops, all combined substantially as set forth. 5th. The runner A, shoe D and knee 89, constructed substantially as shown and described, and combined with the beam band rave C, substantially as set forth. 6th. In combination, with a sled runner of U-shaped cross-section, a knee, consisting of a vertical and an oblique member rigidly united to each other near the runner, and at respective flanges of the runner upon the interior of said flanges, substantially as set forth. 7th. The combination of a U-shaped single piece runner, perforated at the bottom, and having an integrally-formed plate adapted to support the forward end of the rave, a shoe, having integrally-formed loops adapted to enter the perforations in the runner, and keys adapted to enter said loops and to prevent the removal of the shoes from the runner.