main frame, having a longitudinal recess in the horizontal member, and spring-actuated cushions secured within the recess of the corner pieces, substantially as shown and described. 3rd. The combination with a main frame, and an auxilliary frame attached thereto adapted spring-actuated cushions attached to the inner side of the main frame at or near the corners, substantially as shown and described. 4th. The combination, with a main frame and an auxiliary frame attached thereto adapted to fold therein, of a marginal frame within side of the main frame, at or near the corners, and a small cushion specified. 5th. The combination, with a main frame and on a small cushion specified. 5th. The combination, with a main or body frame and an auxiliary frame attached thereto, adapted to fold therein, of a marginal frame secured within the auxiliary frame, having dovetail rainsverse grooves produced therein, dovetail pins adapted to enter side of the main frame, having a longitudinal recess in the horizontal member, spring-actuated cushions, of a light material held within the recess of the corner pieces, and spring-actuated cushions secured to the said body frame, intermediate of the corner cushions at top and bottom, substantially as and for the purpose specified.

No. 34,473. Flushing Tank for Water Closets. (Citerne de lavage pour les la-

Robert S. Galbraith, Toronto, Ont., 4th June, 1890; 5 years

Claim.—A compartment A, connected to the compartment C by the passageway F, an elbow-shaped chamber E, connected to the flushing pipe D, and having a valve-way a located immediately over the opening into the passageway F, in combination with the valve G, valve rod II, lever I, rod J and spring K, substantially as and for the purpose specified.

No. 34,474. Steam Engine.

(Machine à vapeur.)

Joseph A. Mumford, Hantsport, N.S., 4th June, 1890; 5 years.

Joseph A. Mumford, Hantsport, N.S., 4th June, 1890; 5 years. Claim.—1st. The herein described engine, consisting of frame A, high and low pressure cylinders B, valve chest, valve H, pistons, as and for the purpose hereinbefore set forth. 2nd. The herein deders B, valve engine, consisting of frame A, high and low pressure cylinders B, valve chest, valves H and I, pistons, piston rods and orank shaft, all formed and combined substantially as and for the purpose bottom of the cylinder, having raised wall E around the connecting rod, substantially as described. 4th. In an engine, connecting rod the purpose set forth. 3rd. In an engine connecting rod the purpose set forth. 5th. In an engine connecting rod bearing, lubricator or tube F and casing f, substantially as and for the purpose set forth. 5th. In an engine connecting rod bearing, lubricator or tube F, and casing f and hollow connecting rod G, substantially as and for the purpose set forth.

No. 34,475. Link Driving Belt.

(Courroie de commande à chaînons.)

John A. J. Shultz and Bruce C. Alvord, St. Louis, Mo., U. S., 4th
June, 1890; 5 years.

Claim.—A link-driving belt, composed of a series of independent leathery links and leathery rods, combined substantially as described.

No. 34,476. Combined Spring Hinge and Door Check. (Ressort de porte et arrête-porte combinés.)

Charles F. Hanington (assignee of James W. Morris), New York, N.Y., U.S., 4th June, 1890; 5 years.

Charles F. Hanington (assignee of James W. Morris), New York, N.Y., U.S., 4th June, 1890; 5 years.

Claim.—1st. The combination with a door and its casing, of a hinge, means for reciprocating the pintle of the hinge, operated by the movement of the door, means carried by the hirge for checking the movement of said pintle in one direction, whereby the door is 2nd. The combination, with the stationary and moving leaves of a said knuckles, appring for closing the door, substantially as set forth. hinge of hollow knuckles, a part adapted to move vertically within said knuckles, and a cushion formed within one of said knuckles for stationary and moving leaves of a hinge of hollow knuckles, a part spring compressed by said knuckles by the opening of the door, a said knuckles, substantially as set forth. 3rd. The combination, with the stationary and moving leaves of a hinge of hollow knuckles, a said knuckles, substantially as set forth. 4th. The combination, a pintle within said knuckles, a head on said pintle, means for reset forth. 5th. The combination, with the stationary and moving leaves of a hinge of hollow knuckles, said knuckles put under tension by the raising of the pintle, and a cushion for said head, substantially as leaves of a hinge, of hollow knuckles, a pintle within said knuckles, said knuckles put under tension by the raising of the pintle, and a bination of a pintle, means for vertically moving said pintle, and a bination of a pintle, means for vertically moving said pintle relations of a pintle, means for vertically moving said pintle relations to the pintle and acting to substantially as set forth. 7th. In a spring hinge, the combination of a pintle, means for moving said pintle in a vertical direction reried by said pintle, and a spring compressed between said head and another part of the hinge leaves by the opening of the door, a head carried by said pintle, and a spring compressed between said head and and acting to force the pintle in a downward direction, whereby the door is closed, substant

length, and of greater bore in the lower portion thereof, near the close of the stroke of the piston, of a plunger fitting the lesser bore smugly, substantially as set forth. 19th. In a combined spring hinge and door check, the combination, with a pintle and means of the combination, it is a plunger, substantially as set forth. 19th is plunger, substantially as set forth. 19th. In a combined spring hinge and door check, the combination of a reciprocating pintle, means for moving said pintle directly in each direction, and a check for retarding the movement of the pintle in one direction substantially as set forth. 12th. The combination in a combined spring hinge and door check, of a pintle, means for moving only intel in one direction during the opening of the door, a spaid spring hinge and door check, of a pintle, means for moving only intel in one direction during the opening of the door, a spaid spring hinge and door check, of a pintle, means for moving only intel in one direction during the opening of the door, a spaid spring hinge and door check, the combination of a pintle flow of the spring hinge and door check, the combination of a pintle with said head moves, and means for permitting the displacement of the working fluid therein, substantially as set forth. 18th. In a combined spring hinge and door check, the combination of a pintle held from rotating a turning part of the hinge adapted to engage with and move said pintle, and a check for retarding the return movement of the pintle, substantially as set forth. 18th. In a combined spring hinge and door check, the combination of a pintle equipment of the hinge, and pring hinge and door check, the combination of a pintle equipment of the hinge and door check, the combination, with the stationary leaf and forming the support for the ap

No. 34,477. Wire Nail. (Clou de fil de fer.)

James Pender and Walter O. Purdy, St. John, N. B., 4th June, 1890;

Claim.—1st. The process of roughening the bright, smooth surface of wire nails, by corrosion or oxidation, as set forth. 2nd. A wire nail, having an oxidized or corrosively roughened furface, and dark or bluish appearance, as set forth.

No. 34,478. Pulley. (Poulie.)

Averit W. Michael, Benton Harbor, Mich., U.S., 4th June, 1890: 5

years.

Claim.—1st. The combination, with the two halves of the pulley having openings for the passage of the shaft, of the two pieces upon opposite sides of the said openings and formed with wedge shaped projections, the block D, formed upon opposite sides with recesses h, and shoulders \(\rho\), and the wedge shaped block having a wedge shaped recess engaging the wedge shaped projections on the aforesaid pieces, as set forth. 2nd. The combination, with the two halves of the pulley having passage way for the shaft, and the pieces on the outer faces of the halves adjacent to the passage way therein and formed upon opposite sides with wedge shaped projections, of the block having a longitudinal recess to embrace the shaft and upon its outer longitudinal face formed with a recess having oppositely