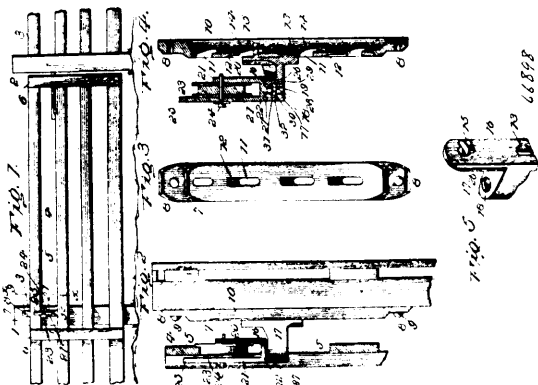


spindle and to disengage from said plate at the opposite side, to unlock the spindle, means, operative from one end of the knob spindle, to withdraw and secure the detent from engagement with the plate and adjustable to permit spring action thereof and other means opposing spring action of the detent when engaging the plate, and operative from the opposite end of the knob spindle to permit full spring action of and to move said detent to again engage the plate, substantially as shown and set forth. 6th. In locks, latch mechanism, a knob spindle normally rotatable to operate same and providing a hollow knob, a lock plate, a locking bolt slidably engaged with the knob spindle and providing a detent, a spring within said knob pressing said bolt to engage the detent with said lock plate to lock the knob spindle, and means engaging the locking bolt and operative from the exterior of said knob whereby said bolt may be adjusted to unlock the spindle, substantially as shown and described. 7th. In locks, latch mechanism, a spindle normally rotatable to operate same and having a hollow knob, a lock plate, a locking bolt slidably engaged with the spindle and providing a detent, a spring, pressing the detent to engage the lock plate to lock the spindle, a knob engaging said bolt and projecting from the spindle knob and providing means whereby the detent may be adjusted to unlock the spindle, substantially as shown and described. 8th. In locks, latch mechanism, a rectangular spindle, normally rotatable to operate same, and having a hollow knob and a longitudinal slot, a lock plate, a locking bolt slidably engaged in said slot and providing a detent, a spring within said knob pressing the locking bolt to engage said detent with the lock plate, a knob attached to the locking bolt and projecting from the spindle knob and providing means whereby said detent may be adjusted in said slot and secured in adjusted positions to lock and unlock the spindle, substantially as shown and described. 9th. In locks, latch mechanism, a knob spindle normally rotatable to operate same, a lock plate secured at one face of the door stile, a movable detent engaging said spindle and plate and spring pressed to disengage from the plate, and means operative from one end of the spindle, to oppose spring action of said detent when engaging the plate, and adjustable to permit of said action and to force the detent to move against said pressure to engage the plate, substantially as shown and described. 10th. In locks providing a mortise lock case, latch mechanism, a knob spindle normally rotatable to operate same, a lock plate exterior the lock case, a detent movably engaged with the knob spindle and normally engaging with the lock plate to lock the spindle, and spring pressed to disengage from said plate, and adjustable means opposing spring section of the detent and operative from one end of the spindle to permit said action and force said detent to engage the plate, substantially as shown and described. 11th. In locks, latch mechanism, a spindle normally rotatable to operate same and having hollow knobs, a lock plate, a locking bolt slidably engaged with the spindle and providing a detent to normally engage said plate to lock the spindle, means within one spindle knob pressing said locking bolt to disengage the detent from said plate, and adjustable means engaging said bolt to oppose said pressure, and operative from the opposite knob to adjust said detent to unlock and lock said spindle, substantially as shown and described. 12th. In locks, latch mechanism, a rectangular spindle normally rotatable to operate same and having a hollow knob, and a longitudinal slot, a lock plate, a detent engaged with said spindle and normally engaging the lock plate to lock the spindle and spring pressed to disengage from the plate, an adjustable push bar in said slot opposing spring action of the detent and extending through and projecting from said spindle knob, and tumblers within said knob engaging the push bar to secure said detent in its engaging position and operative, by means of key to release same for spring action, substantially as shown and described.

No. 66,898. Gate Hinge. (*Penture de barrière.*)

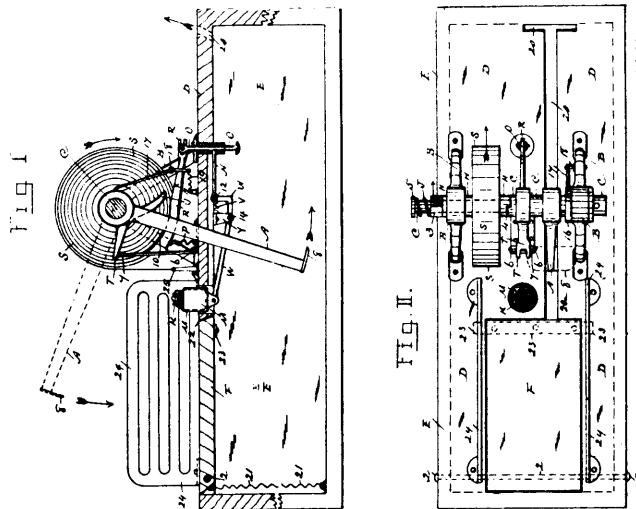


John J. Ober, Kibbey, Montana, U.S.A., 3rd April, 1900; 6 years. (Filed 20th March, 1900.)

Claim.—1st. A gate hinge comprising a fixed vertical bar adapted for attachment to gate post, a bracket adjustable on said bar, and

a roller support consisting of a yoke swivelled to the bracket and having a roller journaled between its arms, said arms being of unequal length and the longer arm forming a guard extending some distance above the roller to hold a gate resting thereon against outward displacement, substantially as described. 2nd. A gate hinge comprising a fixed vertical bar adapted for attachment to a gate post and provided with a series of locking slots, an adjustable bracket having a locking projection to engage said slots and carrying a bearing, and a roller support consisting of a yoke swivelled to the bracket and having a roller journaled between its arms, said arms being of unequal length and the longer arm forming a guard extending some distance above the roller to hold the gate resting thereon against outward displacement, substantially as described. 3rd. A gate hinge comprising a fixed bar, a bracket adjustably connected with the bar and having a bearing formed with an opening having at or below its centre a groove or raceway in the wall thereof and a filling bore communicating with said groove, a roller support consisting of a yoke having a roller journaled therein and provided with a pendent shank fitting in said opening and also having a groove or raceway, anti-friction balls in said grooves and between the underside of the yoke and upper surface of the bearing, and a plug closing the filling bore, substantially as described.

No. 66,899. Animal Trap. (*Piege.*)



Hugh Toland and Richard A. Dunham, both of Jerseyville, Ontario, Canada, 3rd April, 1900; 6 years. (Filed 7th July, 1899.)

Claim.—1st. An animal trap of the character described comprising a transverse shaft mounted on bearings above the top, or floor, of the trap, a striking arm and levers on said shaft, a coil spring secured to a coupling sleeve on the reduced part of the shaft and capable of revolving said arm at the down pressure of the bait to strike the animal and force it through a trap door, and mechanism suitably arranged and connected to retain said striking arm in lock position, substantially as set forth. 2nd. An animal trap of the character described comprising a striking arm mounted on a transverse shaft, above the floor of the trap, the inner end of a coil spring secured to a sleeve on a reduced part of said shaft, and the outer end of said spring secured to the floor, said sleeve capable of revolving said shaft, hence a striking arm secured to said shaft, and over a trap door, and connected mechanism to allow one revolution only of said striking arm, by means of animal contact with the bait, as described.

No. 66,900. Valve. (*Soupape.*)

George Sutherland Walker, Boston, Massachusetts, U.S.A., 3rd April, 1900; 6 years. (Filed 8th January, 1900.)

Claim.—1st. In a valve of the character described, a valve stem, a wedge nut adapted to be raised and lowered on said stem, a valve provided with a suitable gate and adapted to be operated on said stem by engagement with the inclined surface of the wedge nut, a guide placed within the pipe behind the wedge nut, and a lever pivotally secured at one end to the wedge nut and adapted to extend outward therefrom between said guide and valve, substantially as described. 2nd. In a valve of the character described, a valve stem, a wedge nut adapted to be raised and lowered on said stem, a valve provided with a suitable gate and adapted to be operated on said stem by engagement with the inclined surface of the wedge nut, a guide placed within the pipe behind the wedge nut, and a lever pivotally secured at one end to the wedge nut and adapted to extend outward therefrom between said guide and valve, the openings in said valve through which the stem passes being sufficiently large to allow of a horizontal movement of the valve toward and from its seat, substantially as set forth. 3rd. In a valve of the character described, a screw threaded valve stem, a wedge nut on and engaged thereby, a gate valve on said valve stem adapted to be moved both