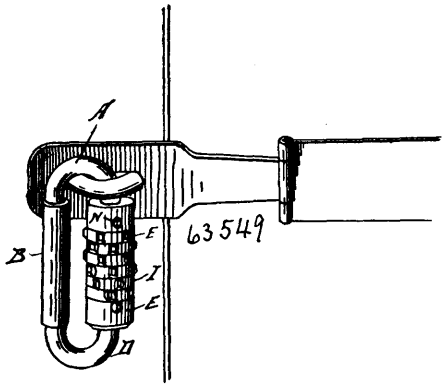
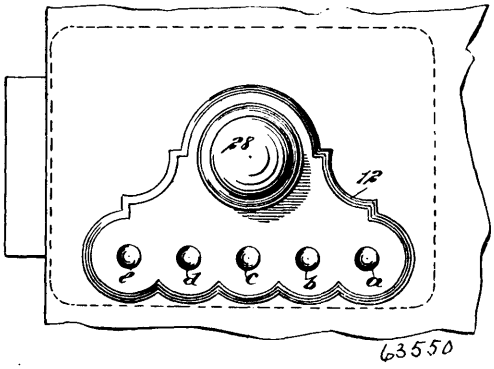
feather, the rings or washers H, seated between the discs, and upon the feather between its notches, the locking disc F, threaded



on sleeve C, the screw F^1, locking the disc F, the flange G, on the shackle covering the head of screw F^1, substantially as described.

No. 63,550. Lock. (*Serrure.*)



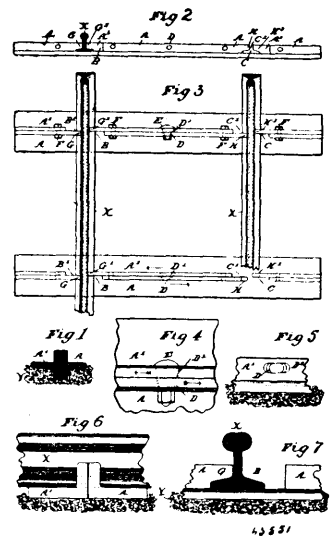
Albert Edward Ormond and James Gordon Bennett, both of Winnipeg, Manitoba, Canada, 4th August, 1899; 6 years. (Filed 6th March, 1899.)

Claim.—1st. A lock, comprising a casing, a series of notched tumbler discs mounted to rotate on a shaft in said casing, a spring-pressed dog designed to enter into said notches, a push rod for operating said dog in one direction, a ratchet wheel on each tumbler, push rods engaging the said ratchet wheels, heart cams connected to the tumblers, spring fingers engaging the said heart cams, a shaft having connection with a knob at the outer side of the door to which the lock may be attached, a collar mounted to rotate with but movable longitudinally on said shaft, a shifting rod engaging with said collar and movable with a movement of the dog, a bolt, and a bolt shifting plate adapted for locking engagement with the collar, substantially as specified. 2nd. A lock, comprising a casing, a bolt movable in said casing, a shifting plate for said bolt, a shaft extended inward to the casing and through said shifting plate, a knob for turning said shaft, a collar on said shaft and adapted to be moved into engagement with the shifting plate, a dog operating to move the collar and tumblers for controlling the movement of said dog, substantially as specified. 3rd. A lock, comprising a series of notched tumbler discs, means for imparting a step-by-step rotary movement to said tumbler discs, a spring-pressed dog controlled by said tumbler discs, a bolt actuating plate, an outer knob, a clutch operated by a movement of the dog to put said outer knob in operative connection with the plate, whereby the bolt may be operated by rotating said inner knob, substantially as specified. 4th. In a lock, a series of independent notched tumbler discs, a shaft on which said tumbler discs are mounted to rotate, a ratchet wheel connected to each tumbler disc, push rods engaging the said ratchet wheels, a heart cam connected to each tumbler disc, and spring fingers engaging the said heart cams, the said fingers operating to rotate the discs by bearing on the periphery of the cams, substantially as specified.

No. 63,551. Railway Tie. (*Traverse de chemin de fer.*)

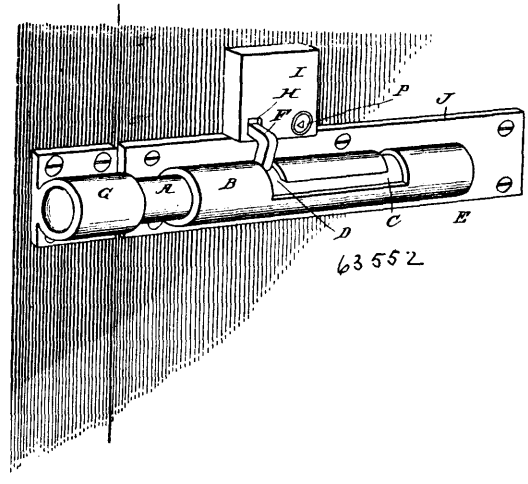
Gustav Weise and George Nalder, both of Lake Lambert, Victoria, Australia, 4th August, 1899; 6 years. (Filed 2nd May, 1899.)

Claim.—1st. A railway sleeper formed in two parallel halves or sections, each having two recessed slots to receive the rails, with a projection on one side of each slot so arranged that on adjusting and connecting the said halves the respective projections on one sleeper will fit against and secure the left side of each rail web respectively and the respective projections on the other sleeper will fit against and secure the right side of each rail web respectively,



substantially as and for the purpose set forth. 2nd. In a railway sleeper of tee or angle iron or steel, the combination of two parallel halves or sections having slots B, C, B^1, C^1, projections G, H, G^1, H^1, tapered holes D, D^1, a tapered or wedge bolt E, and bolts F or other means for connecting the said halves of the sleeper, all substantially as and for the purpose set forth.

No. 63,552. Bolt and Lock. (*Boulon et serrure.*)



John M. Forney and James R. Hanna, Spring Mills, Pennsylvania, U.S.A., 4th August, 1899; 6 years. (Filed 9th May, 1899.)

Claim.—1st. The combination with a belt mounted to slide in a barrel or casing and provided with a lateral handle bar projecting through a slot therein, said handle bar being bent inwards towards the back plate and formed at its end into a latch, of a spring actuated latch or tumbler, a casing in which said latch is pivoted, provided with an opening to permit the catch to enter and engage under the spring latch, and a spring, secured within the casing and bearing against the inner end of the catch to push it out of the casing when relased from the engagement with the latch, substantially as described. 2nd. The combination with the back plate J, of the lock casing and belt barrel mounted thereon, the latter being provided with the longitudinal and branch slots, the belt, mounted in the casing, the laterally projecting handle bar F, of the belt, adapted to move in said slots and having its outer end bent to form the catch F^2, the latch K, pivotally mounted in the lock casing and adapted to be turned with a key, its lower, outer corner being cut away to admit of the entrance of the catch into the casing, the spring M, coiled around the stem N, inside the casing, having one of its arms bearing upward against the top of the casing and the other downward against the top of the latch, and the flat spring Q, secured to the back plate J, and bearing outward against the inner end of the catch, substantially as described.