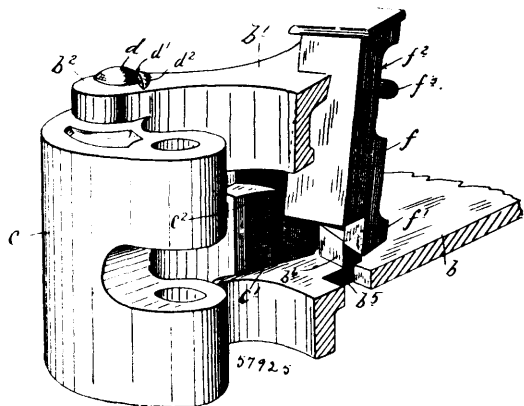


the clamps slidably mounted upon said rod, and provided with inwardly projecting prongs or teeth below the cover, and the retracting spring connecting said clamps. 3rd. In combination with a top or cover of the class described, of the transverse rod secured thereto, the clamps slidably mounted upon said rod, and provided with inwardly projecting prongs or teeth below the cover, the retracting spring connecting said clamps, and the upwardly projecting teeth or barbs upon said cover. 4th. As an improved article of manufacture, a cover of the class described provided with projecting teeth or barbs, and means for securing said cover to a receptacle consisting of clamps adapted to engage the receptacle, and means for actuating said clamps.

No. 57,925. Car Coupler. (*Attelage de chars.*)



Edwin C. Washburn, Minneapolis, Minnesota, U.S.A., 26th October, 1897; 6 years. (Filed 18th October, 1897.)

Claim.—1st. The combination with a coupler, involving a coupler head, pivot-d knuckle and locking dog, of a retaining device acting to secure said dog in its locking position, a sustaining surface or projection carried by the tail of said knuckle, adapted to move under said locking dog and acting to hold said dog upward above a position in which said retaining device is operative to secure the same, and a releasing connection arranged to first release said retaining device and then move said dog into its unlocking position, substantially as described. 2nd. The combination with a coupler, involving a coupler head, pivoted knuckle and locking dog, of a retaining device acting to secure said dog in its locking position, a dog lifting or releasing device involving said retaining device as a section or link thereof, and a surface or projection carried by the tail of said knuckle and acting to hold said dog in position in which said retaining device is inoperative to secure the same, when said knuckle is opened, substantially as described. 3rd. The combination with a coupler, involving a coupler head, pivoted knuckle or jaw and locking dog, of

a hand operated dog releasing device involving a spring, and a spring holding bracket or buckle constructed to permit said spring to yield less than the limit of its elasticity and then to become rigid to positively release the dog, substantially as described. 4th. The combination with a coupler, involving a coupler head, pivoted knuckle and vertically movable locking dog, of a retaining device acting to secure said dog in its locking or lowermost position, a surface or projection carried by the tail of said knuckle and acting to hold said dog above the position in which said retaining device is active thereon to secure the same, while said knuckle is open, which retaining device is in the form of a hook pivoted to said dog and forming part of the releasing or dog-lifting connection, substantially as described. 5th. In a coupler of the character described, the combination with the pivoted knuckle, of a locking dog or pin mounted in the coupler head, with freedom for vertical and a limited lateral movement, a surface or flange carried by the tail of said knuckle and acting to prevent said locking dog or pin from falling into a locking position while the knuckle is open, and a raised shoulder or ledge on the tail of said knuckle, upon which the lower end of said dog or pin is adapted to be engaged to set said dog so that the knuckle may be opened, substantially as described. 6th. In a coupler of the character described the combination with the pivoted knuckle, of a locking dog or pin mounted in the coupler head, with freedom for vertical and a limited lateral movement, a surface or flange carried by the tail of the knuckle and acting to prevent said locking dog or pin from falling into its locking position while the knuckle is open, a raised shoulder or ledge on the tail of said knuckle upon which the lower end of said dog or pin is adapted to be engaged to set said dog so that the knuckle may be opened, and co-operating stop projections or surfaces, one on said locking dog and the other on the coupler head, which projections or surfaces prevent the lateral movement of said dog or pin when resting upon the lower surface or flange of said knuckle, but permit the lateral movement of the said dog when raised for engagement with the said raised shoulder or ledge of said knuckle, substantially as described. 7th. In a coupler of the character described, the combination with the recessed coupler head b^1 , b^2 , of the pivoted knuckle c , the tail of which is formed with the lower and extended dog-sustaining surface or flange c^1 and the raised shoulder or ledge c^2 , the vertically movable locking dog or pin f co-operating with the tail c^1 , c^2 of said knuckle and provided with the guide lug projection f^1 , and the cam lug b^6 formed on the coupler head and co-operating with said guide lug, all substantially as described. 8th. The combination with a coupler having a vertically movable locking dog or pin, of a dog-lifting device, involving the rock shaft k^1 provided with the arm k^5 with perforated head k^7 , and the link or rod k^3 working loosely through said perforated head k^7 , provided, at its upper end, with the head or stop k^9 and pivotally secured, at its lower end, to the head of said pin or dog, substantially as described. 9th. The combination with a coupler, involving a coupler head, a pivoted knuckle or jaw and a locking dog of a hand-operated dog-releasing device, involving the rod k^3 with head k^{19} , the buckle k^{18} in which said rod k^3 and head k^{19} work, and the spring k^{24} compressed between one end of said buckle k^{18} and said head k^{19} , substantially as described. 10th. A coupler having its knuckle or jaw pivoted to the coupler head on a pintle or pivot pin which is provided with a flattened side d^1 for co-operation with a lug d^2 on said coupler head, substantially as described.