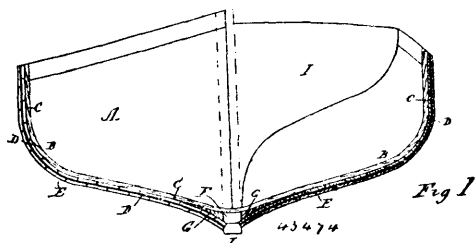


or cloth saturated with a waterproof material as marine glue, pitch, etc., interposed between the layers of planking, substantially as



described. 2nd. In a boat, the combination of the ribs B, inner planking C, outer planking E, with a woven fabric D, such as canvas, etc., or its equivalent interposed and saturated with marine glue or pitch, etc., substantially as described. 3rd. In a boat, the combination with the ribs B, inner planking C, outer planking E, woven fabric D, of the keelson F, formed of one piece from stem to stern, substantially as described.

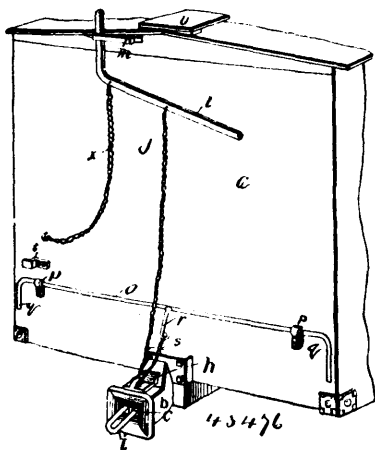
No. 43,475. Car Coupler. (Attelage de chars.)



Louis Napoleon Singin, Walls, Pennsylvania, U.S.A., 5th July, 1893; 6 years.

Claim.—1st. In a car coupler the combination with the draw-head, of a pivoted knuckle having a sector provided with projecting teeth, and a pivoted sector having teeth continually engaging the teeth on the knuckle, substantially as described. 2nd. In a car coupler the combination with the recessed draw-head, of a sector having teeth pivotally mounted therein, a knuckle having a sector provided with projecting teeth continually engaging the teeth of the sector, and means for locking the sector, substantially as described. 3rd. In a car coupler the combination with the draw-head, of the knuckle having a sector shaped projection provided with teeth, a sector pivotally mounted in the draw-head provided with teeth continually engaging the teeth of the knuckle, and a locking pin engaging said sector, substantially as described. 4th. In a car coupler the combination with the draw-head, of the knuckle having a sector shaped projection provided with teeth, a sector pivotally mounted in the draw-head provided with teeth continuously engaging the teeth of the knuckle, and a locking pin having an angular body arranged to engage the sector, substantially as described. 5th. In a car coupler the combination with the knuckle having a sector shaped projection provided with teeth, a pivoted sector mounted in the draw-head also provided with teeth continuously engaging the teeth of the knuckle, one of the teeth of the sector being enlarged to form a bearing portion, and a locking pin engaging said enlarged tooth, substantially as described.

No. 43,476. Car Coupler. (Attelage de chars.)

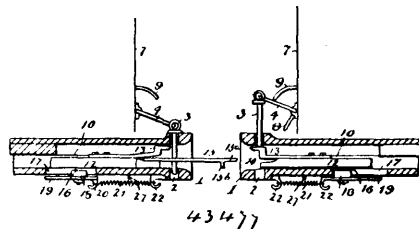


Herman R. Dore, Mountonville, New Hampshire, U.S.A., 5th July, 1893; 6 years.

Claim.—1st. A car coupling comprising in its construction a draw bar provided with an inclined chamber *d*, and lugs *c*, extending

below the plane of the lower surface of the draw bar, and the hook *c*, provided with a shank extended through the said inclined chamber and pivoted in said lugs, whereby in case it is desired to remove the hook, the same may be done without removing the draw bar, as set forth. 2nd. In a car coupling, a draw bar provided with the inclined chamber *d*, the hook *c*, having its shank extended through the said chamber and pivoted at its inner lower end, a spring in the said chamber bearing upon the said shank, and a hood connected with the hook and covering the opening to the chamber, as set forth. 3rd. The combination with the coupling hook, of the lever *l*, the chain *j*, connecting the lever with the coupling hook, and the friction spring in the guide way of the lever, as set forth. 4th. The combination with the coupling hook, of the lever *l*, the chain *j*, connecting the latter with the coupling hook, the chain *x*, for drawing the lever *l* down, the rock rod *o*, provided with the crank or angular ends *g*, arm *r*, connecting chain *s*, and retaining clip *t*, as set forth.

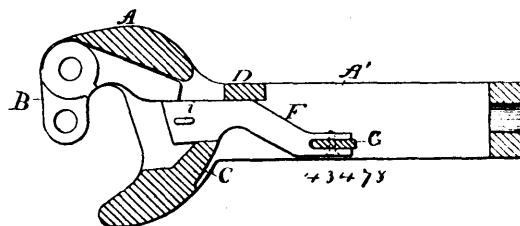
No. 43,477. Car Coupler. (Attelage de chars.)



Edouard Suprenant, Cohoes, New York, U.S.A., 5th July, 1893; 6 years.

Claim.—1st. The combination with a draw-head having a vertical pin hole, a spring pressed slide having a lateral shoulder, and link engaging jaws at its front end and normally held by its spring in position to support a coupling pin, of a locking bolt carried by the draw head, and movable into engagement with the lateral shoulder of the slide when a link is engaged therewith to enter another draw-head, substantially as described. 2nd. The combination with a draw head having a vertical pin hole, a spring pressed slide having a lateral shoulder, and link engaging jaws at its front end and normally held by its spring in position to support a coupling pin, of a locking bolt carried by the draw-head and movable into engagement with the lateral shoulder of the slide when a link is engaged therewith, and a lengthwise movable rod extending transversely of the car and having an arm engaging the locking bolt for moving the latter back and forth, substantially as described. 3rd. The combination with a draw-head having a vertical pin hole, a longitudinal slot in its bottom wall, and a hook secured to the outside of the latter, of a lengthwise movable pin supporting slide having a hook and link engaging jaws at its front end, a sliding plate connected with the rear end of the pin supporting slide through the slot in the bottom wall of the draw head and provided with a hook, and a spring detachably engaged with the hook on the draw-head and the hook on the sliding plate, substantially as described. 4th. The combination with a draw-head having a vertical pin hole, and a pin supporting slide normally held by its spring in position to support a coupling pin, of a rock shaft journaled on the car and having a crank arm engaged with the eye of a coupling pin, and a stop arm secured to the car above the crank arm of the rock shaft for preventing the complete withdrawal of the coupling pin from the pin hole, substantially as described. 5th. In combination with a draw-head having a vertical pin hole, a spring pressed slide having link engaging jaws and adapted to support a pin and link, and link having a solid end and a downward projecting shoulder, substantially as set forth.

No. 43,478. Car Coupler. (Attelage de chars.)



Frank Harvey and John Kane, both of Renovo, Pennsylvania, U.S.A., 5th July, 1893; 6 years.

Claim.—1st. The combination in a car coupling, of a draw bar carrying a latch the rear end of which is pivoted to a web located to one side of the center of the draw bar, together with bearing walls C and D, between which the latch moves, the forward end of the latch being adapted to engage with the coupling hook, substantially as shown, and for the purpose set forth. 2nd. The combination in a car coupling, of a draw bar carrying within the same a vertically