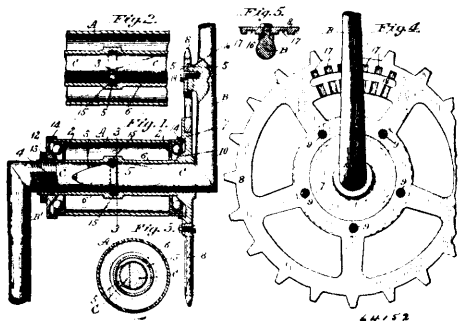


with a rotary drum having an open head and containing a carriage having its base frame and its upper horizontal portion extending from its upright portion rearwardly, or in the same direction, and butter working rollers arranged in the upper portion of said carriage, substantially as set forth. 11th. A portable butter worker adapted to be combined with a rotary drum having an open head and containing a carriage having its base frame and its upper horizontal portion extending from its upright portion rearwardly or in the same direction, butter working rollers arranged in the upper portion of said carriage, and a hopper arranged on said carriage above said rollers, substantially as set forth. 12th. The combination with a rotary drum having an open head, of a portable carriage or frame adapted to be moved about independent of said drum, butter working rollers supported on said carriage or frame, a driving shaft arranged on one side of said drum and connected with the same to rotate the same, and a detachable cross shaft geared at one end with said driving shaft and at the other with said rollers, substantially as set forth. 13th. The combination with a rotary drum having an open head, of a portable carriage or frame adapted to be moved about independent of the drum, butter working rollers supported on said carriage or frame, a driving shaft arranged on the same, a cross shaft provided at its ends with bevel wheels which mesh with bevel wheels on the driving shaft and on one of the roller shafts, and a housing in which said cross shaft is journaled and which is provided at its ends with sleeves by which it is connected with the driving shaft and one of the roller shafts, substantially as set forth.

No. 64,152. Crank Axle. (Essieu coudé.)



Moro D. Stebbins, assignee of Gomer Phillip Jones, Springfield, Massachusetts, U.S.A., 3rd October, 1899; 6 years. (Filed 12th March, 1899.)

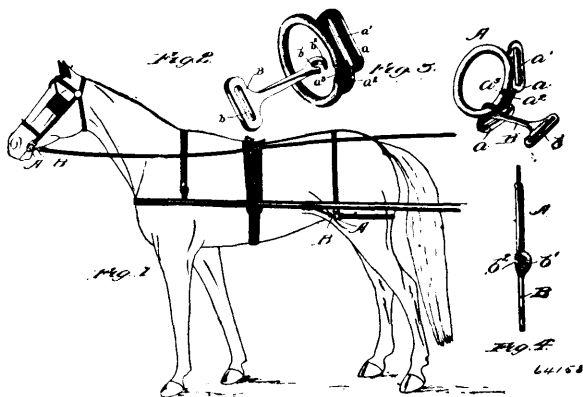
Claim.—1st. A two part crank axle, each part consisting of a crank and an integral shaft section, the two shaft sections having overlapping bevels, one of said sections having a projection on its outer surface of such part of the bevelled shaft section as forms less than a semi-cylinder, combined with a sleeve having a recess into which said projection extends, the overlapping bevels holding the projection on the one shaft section into the recess in the sleeve, substantially as described. 2nd. A two part crank axle each part consisting essentially of a crank and a shaft section, the two shaft sections, having bevelled proximate faces and together forming a substantially cylindrical shaft, one of said sections having an external projection from its outer cylindrical surface at a point where the diameter of the section below the projection is less than half a cylinder, a sleeve with a recess therein to inclose the divided axle and receive the projection thereon, and means for securing one of the axle sections to the sleeve to prevent independent rotation, all combined substantially as described. 3rd. The combination in a divided crank axle comprising two axle and crank sections, and a tubular member within which said axle sections are united by a screw engagement of one of them with said member, of a ratchet and pawl devices located between said axle and said member, whereby said axle is rotatable in said member in one direction only, substantially as described. 4th. In a divided crank axle comprising two axle sections each having a crank thereon, of a sleeve whereby said axle parts are united by the screw-threaded engagement thereof with said sleeve, and means for preventing the unscrewing of said axle parts and said sleeve, consisting of a ratchet on one of said parts and a pawl on said sleeve for engaging said ratchet, substantially as described.

No. 64,153. Harness. (Harnais.)

Joseph Rousseau, Joseph H. Lessard, and George A. Langevin, all of Thetford Mines, Quebec, Canada, 3rd October, 1899; 6 years. (Filed 4th July, 1899.)

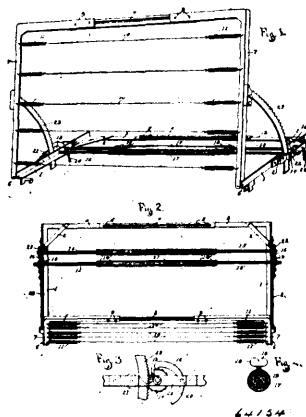
Claim.—1st. A harness attachment, comprising a hook, having a slot at one end, a ring portion, having a slotted flange and grooves forming a passage into the interior of the ring for attaching the hook, substantially as described. 2nd. A harness attachment, comprising a hook, having a slot at one end, a ring portion, having a slotted flange, a narrow extension adjacent to said flange, and grooves formed in said ring portion, on each side of said extension, forming a passage into the interior of the ring for attaching the hook, sub-

stantially as described. 3rd. A harness attachment, comprising a hook, having a slot at one end, a ring portion, having a plurality of



slotted flanges, a narrow extension located between said flanges, and grooves formed in said ring portion, on each side of said extension, forming a passage into the interior of the ring for attaching the hook, substantially as described.

No. 64,154. Bed Head. (Tête de lits.)



Charles H. Johansen and Simon Jorgensen Holdt, both of Chicago, Illinois, U.S.A., 3rd October, 1899; 6 years. (Filed 3rd July, 1899.)

Claim.—1st. As a new article of manufacture, a removable head section for beds, having in combination, two frames hinged together and adapted to extend from side to side of the bed, one of said frames being adapted to rest upon the side rails of the bed or other support and remain normally stationary, and the other being adapted to move about the hinge joint, means carried by the movable frame for supporting the head portion of a mattress or the like, a pair of racks, one disposed at each side of the frame, each rigidly connected at one end to the movable frame, the toothed faces of the racks being concentric with the hinge joint, a pair of pinions engaging the racks, respectively, a shaft extending from side to side of the frame, carrying the pinions and being incapable of rotation relatively thereto, a pair of ratchets, one at each side of the frame, carried by the shaft and being incapable of rotation relatively thereto, a pair of pawls engaging the ratchets, a rock shaft carrying the pawls and extending from side to side of the frame, the shaft carrying the pinions being provided outside of the frame with means for receiving a wrench for turning it, substantially as set forth. 2nd. As a new article of manufacture, a removable head section for beds having, in combination, two frames hinged together and adapted to extend from side to side of the bed, one of said frames being adapted to rest upon the side rails of the bed or other support and remain normally stationary, and the other being adapted to be moved about the hinge joint, means carried by the movable frame for supporting a mattress or the like, a pair of racks, one at each side of the frame, each rigidly connected at one end to the movable frame, the toothed faces of the racks being concentric with the hinge joint, a shaft journaled in and extending from side to side of the stationary frame, a pair of pinions, one at each side of the frame, carried by the shaft, and engaging the racks, said shaft being provided at its ends outside of the frame with means for receiving a wrench for turning it, a pair of ratchets one at each side of the frame, carried by said shaft, a rock shaft journaled in the frame and extending from side to side thereof, a pair of pawls carried by the rock shaft and adapted to engage the ratchets, and means at each side of the frame for operating the rock