(No Model.)

C. RETTIG.

BARREL STAND.

No. 481,640. Patented Aug. 30, 1892.

Fig. 1.

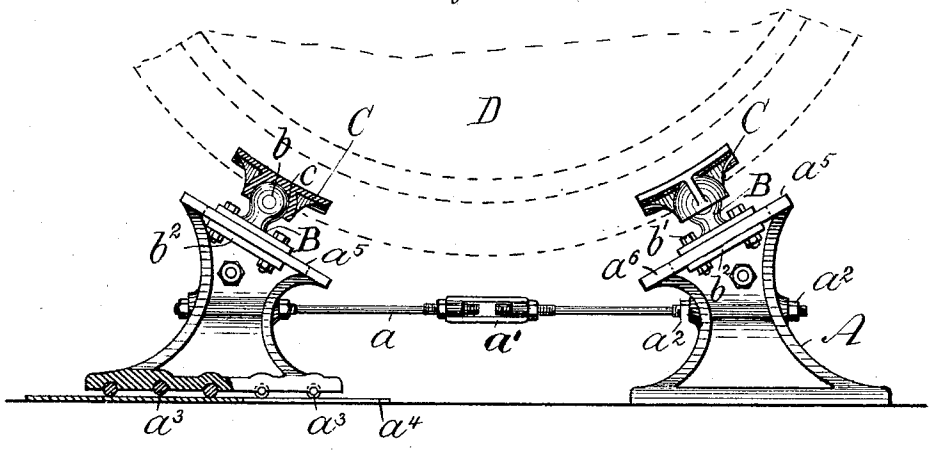
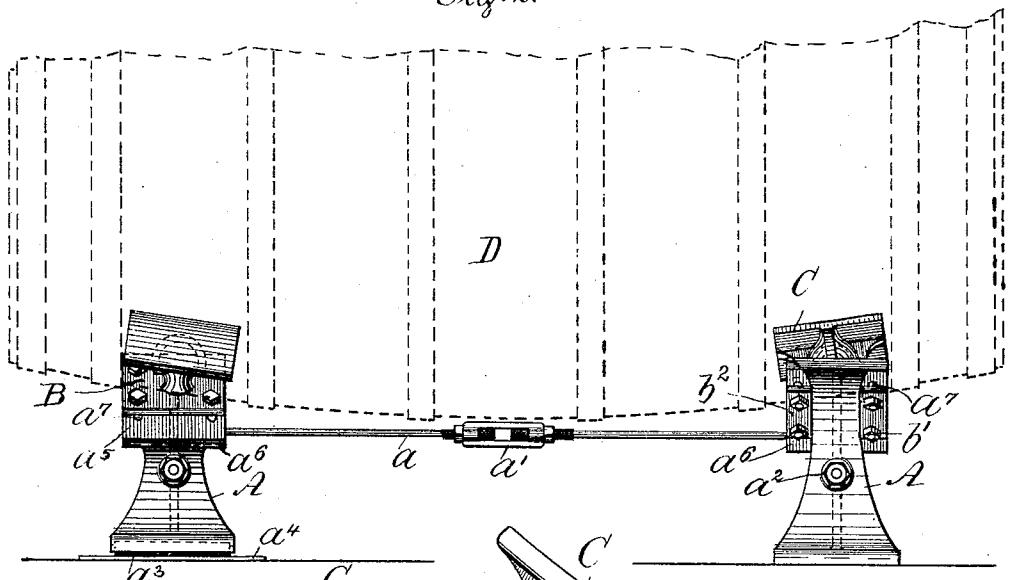


Fig. 2.



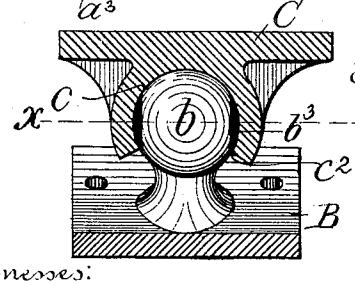
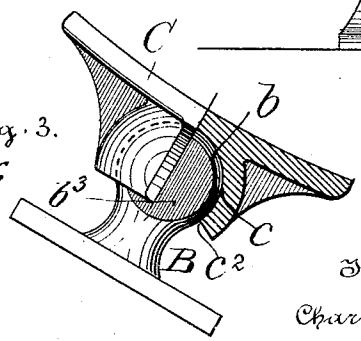


Fig. 3.



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UNITED STATES PATENT OFFICE.

CHARLES RETTIG, OF PHILADELPHIA, PENNSYLVANIA.

BARREL-STAND.

SPECIFICATION forming part of Letters Patent No. 481,640, dated August 30, 1892.

Application filed May 25, 1892. Serial No. 434,367. (No model.)

To all whom it may concern:

Be it known that I, CHARLES RETTIG, a subject of the Emperor of Germany, (having declared my intention of becoming a citizen of the United States,) residing at Philadelphia, in the county of Philadelphia and State of Pennsylvania, have invented a certain new and useful Improved Barrel-Stand, of which the following is a specification.

My invention consists of a set of beds held together by tie-rods, said beds provided with rollers to assist in the adjustment of the same, and inclined ways to adjustably support bases and saddles connected by ball-and-socket joints.

My invention further consists of a set of beds held together by tie-rods and having inclined ways to support bases and saddles connected by ball-and-socket joints.

My invention further consists of a set of beds held together by tie-rods and having inclined ways adapted to support bases and saddles connected by interlocking ball-and-socket joints.

My invention further consists of the improvements hereinafter described, and pointed out in the claims.

My invention will be more fully understood taken in connection with the accompanying drawings, in which—

Figure 1 is an elevation of a barrel-stand made in accordance with my invention. Fig. 2 is a side elevation of the same, and Fig. 3 are views illustrating more clearly the interlocking ball-and-socket joint between a saddle and its base.

Referring now to the drawings for a further description of my invention, A are the beds, (four in number,) of cast-iron or other suitable material, and are held at proper distances by tie-rods a, sleeve-nuts a', and clamping-nuts a^2, all of which allow of ready adjustment of the beds A, so as to suit different sizes of barrels or casks.

The beds A may be provided with rollers a^3, adapted to contact with the metal plates a^4, supported by the floor, so as to assist in the adjustment of the beds A relatively to each other and to provide for the variation of the distances between the beds due to the contraction and expansion of the rods a; but, if preferred, such rollers may be omitted, as shown at the right hand of Fig. 1, in which case the beds A rest directly on the floor or other superstructure. The beds A are also provided with inclined supporting-ways a^5 and flanges a^6, having slots a^7, for a purpose to be described. Upon these inclined ways a^5 are mounted bases or stocks B, having balls or rounded-off extremities b, and these bases or stocks B are adjustably held by bolts and nuts b' and washers or cleats b^2 to the beds A in such a manner that the stocks B may be lowered or raised with respect to the floor-line.

C are saddles provided with cup-shaped cavities c, adapted to fit the balls or rounded-off extremities b of the bases B, and are also provided with curved bearing-surfaces, which by reason of the ball-joint will adjust themselves to and engage the surface of the barrel or cask D.

As has been described, the base B is provided with a ball or rounded-off projection b and the saddle C with a socket c for fitting over the ball b. This is done for the purpose of preventing the overtoppling of the saddle C preparatory to support a barrel or cask, as would be the case in barrel-supports having the ball on the saddle C and the socket on the bed B. If it is desired to further prevent the saddle from falling off its base before the barrel is in position thereon, the two parts constituting the ball-joint may be locked together, as shown in Fig. 3, in which the socket c is extended beyond the center line $x\,x$ of the ball b and provided with an elongated opening c^2. The ball b is cut away at opposite points b^3 to allow for the engagement of the socket c with the ball or rounded off projection b, after which the saddle C is given a quarter-turn to lock and hold both the base as well as the saddle in a relative position and yet allow for self-adjustment of saddle to the surface of a barrel or cask.

Having thus described the nature and object of my invention, what I claim as new, and desire to secure by Letters Patent, is—

1. A barrel-stand comprising four beds adjustably held together by tie-rods and sleeve-nuts, said beds having inclined ways and carrying adjustable bases, and saddles held to said bases by ball-joints, whereof the respective members interlock with each other, substantially as and for the purposes set forth.

2. A barrel-stand comprising four beds adjustably held together by tie-rods, said beds having inclined ways and carrying adjustable bases and saddles, said saddles attached to said bases by ball-joints, substantially as and for the purposes set forth.

3. In a barrel-stand, sets of beds having inclined ways, bases adjustably attached to said ways and having the ball members of a ball-joint, saddles having the concave members of a ball-joint and fitting over the bases, said beds adjustably held together by tie-rods and mounted on a supporting-surface, and rollers located between said beds and said surface, substantially as and for the purposes set forth.

4. A barrel-stand comprising a set of beds held together by tie-rods, said beds having inclined ways for adjustably supporting bases and saddles with reference to the floor-line, substantially as and for the purposes set forth.

5. A barrel-stand comprising a set of beds held together by tie-rods, said beds having inclined ways and supporting bases and saddles, the latter connected by interlocking ball-and-socket joints, the bases having the cut-away ball portions of such joints and the saddles having the partially-contracted cup-shaped portions of such joints, substantially as and for the purposes set forth.

In witness whereof I have hereunto set my signature in the presence of two subscribing witnesses.

CHARLES RETTIG.

Witnesses:
HERMANN BORMANN,
HARRY C. GRAMBOW.