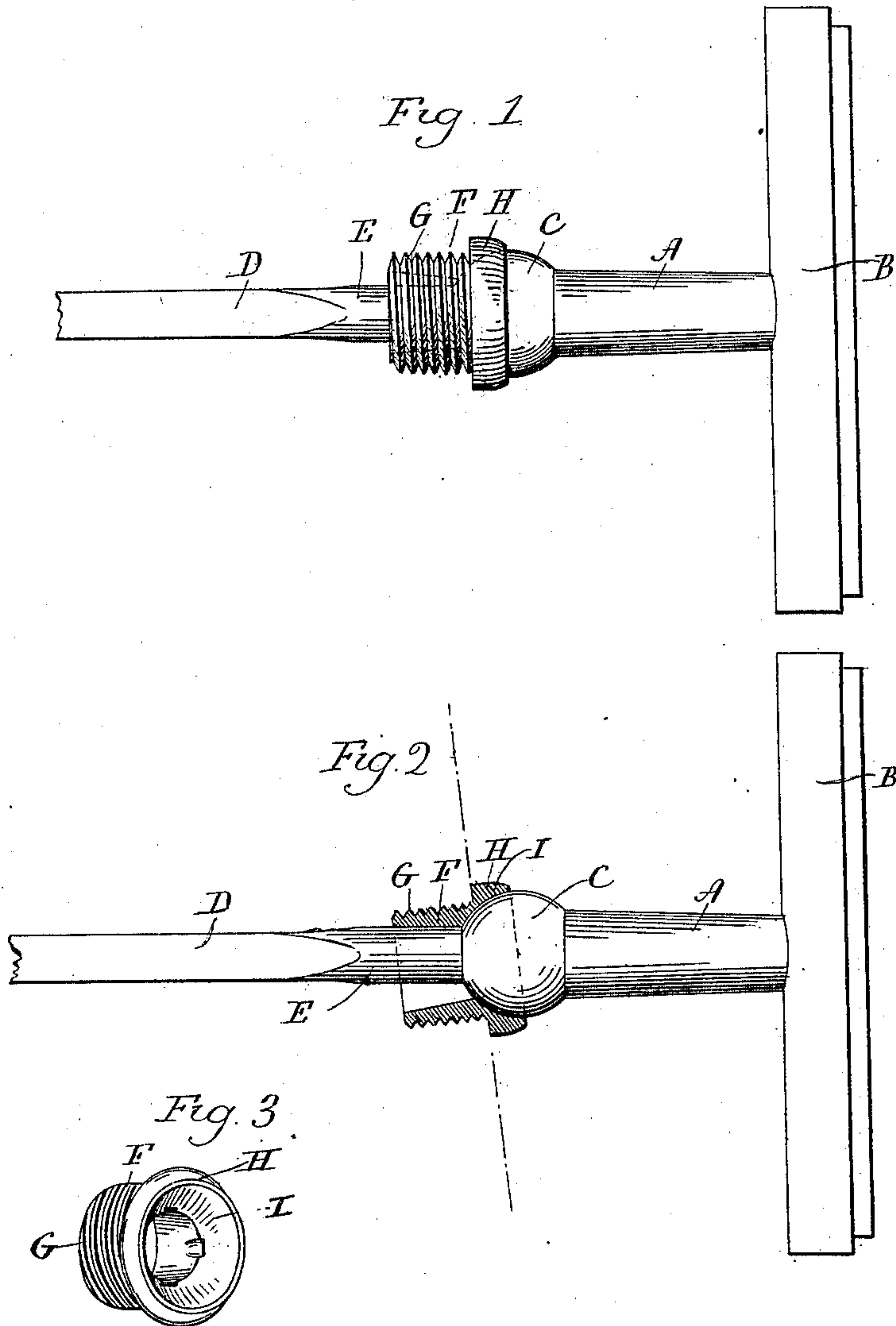


No. 688,702.

Patented Dec. 10, 1901.

O. H. SCRANTON.  
HANDLE FOR COACH DOORS.  
(Application filed Sept. 16, 1901.)

(No Model.)



Witness.  
J. H. Shumway.  
Clara L. Reed

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# UNITED STATES PATENT OFFICE.

ORRIN H. SCRANTON, OF NEW HAVEN, CONNECTICUT.

## HANDLE FOR COACH-DOORS.

SPECIFICATION forming part of Letters Patent No. 688,702, dated December 10, 1901.

Application filed September 16, 1901. Serial No. 75,456. (No model.)

*To all whom it may concern:*

Be it known that I, ORRIN H. SCRANTON, of New Haven, in the county of New Haven and State of Connecticut, have invented a new and useful Improvement in Handles for Coach-Doors; and I do hereby declare the following, when taken in connection with the accompanying drawings and the letters of reference marked thereon, to be a full, clear, and exact description of the same, and which said drawings constitute part of this specification, and represent, in—

Figure 1, a side view of a handle for coach-doors embodying my invention; Fig. 2, a similar view showing a socket in section and indicating the socket as arranged at an angle with the line of the spindle; Fig. 3, a perspective view of the socket detached.

This invention relates to an improvement in handles for coach or carriage doors, the object being to provide a bearing for the handle which will permit the handle to be inserted at different angles with relation to the door, so as to conform to the curvature of the face of the door, which is not always at a right angle to the forward edge of the door; and the invention consists in forming the shank of the handle with a ball and providing a socket adapted to be inserted into the face of the door to receive said ball, as will be more fully hereinafter described, and particularly recited in the claims.

As herein shown, the shank A of the handle B, which may be of any suitable design, is formed with an enlarged ball or boss C, beyond which the spindle D projects, the said spindle being provided with a rounded surface E adjacent to the ball C. With a handle thus formed I employ a socket F, having external threads G, adapting it to be turned

into the face of the door, and with a flange H, adapted to bear upon the face of the door. In the outer end of this socket is a concave recess I, corresponding to the ball C, which is adapted to set into it, and from this recess is a passage which tapers outward, as clearly shown in Fig. 2. This tapered recess permits the spindle to be turned at an angle to the plane of the socket, whereby the spindle may always conform properly with the face of the door, at the same time providing a smooth and finished bearing for the shank of the handle, the ball always forming a tight joint with the socket in whatever position it may be turned.

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

1. In a handle for coach-doors, the combination with a shank having a ball-shaped projection, of an externally-threaded socket formed with a circular concave recess in its outer end adapted to receive said ball, and an opening through the rear end of the socket for the passage of said shank, substantially as described.

2. A handle for coach-doors comprising a shank having a ball-shaped projection and socket having a concave recess, adapted to receive said projection, and with a tapered opening from said recess through the rear of the socket, substantially as described.

In testimony whereof I have signed this specification in the presence of two subscribing witnesses.

ORRIN H. SCRANTON.

Witnesses:

FREDERIC C. EARLE,  
CLARA L. WEED.