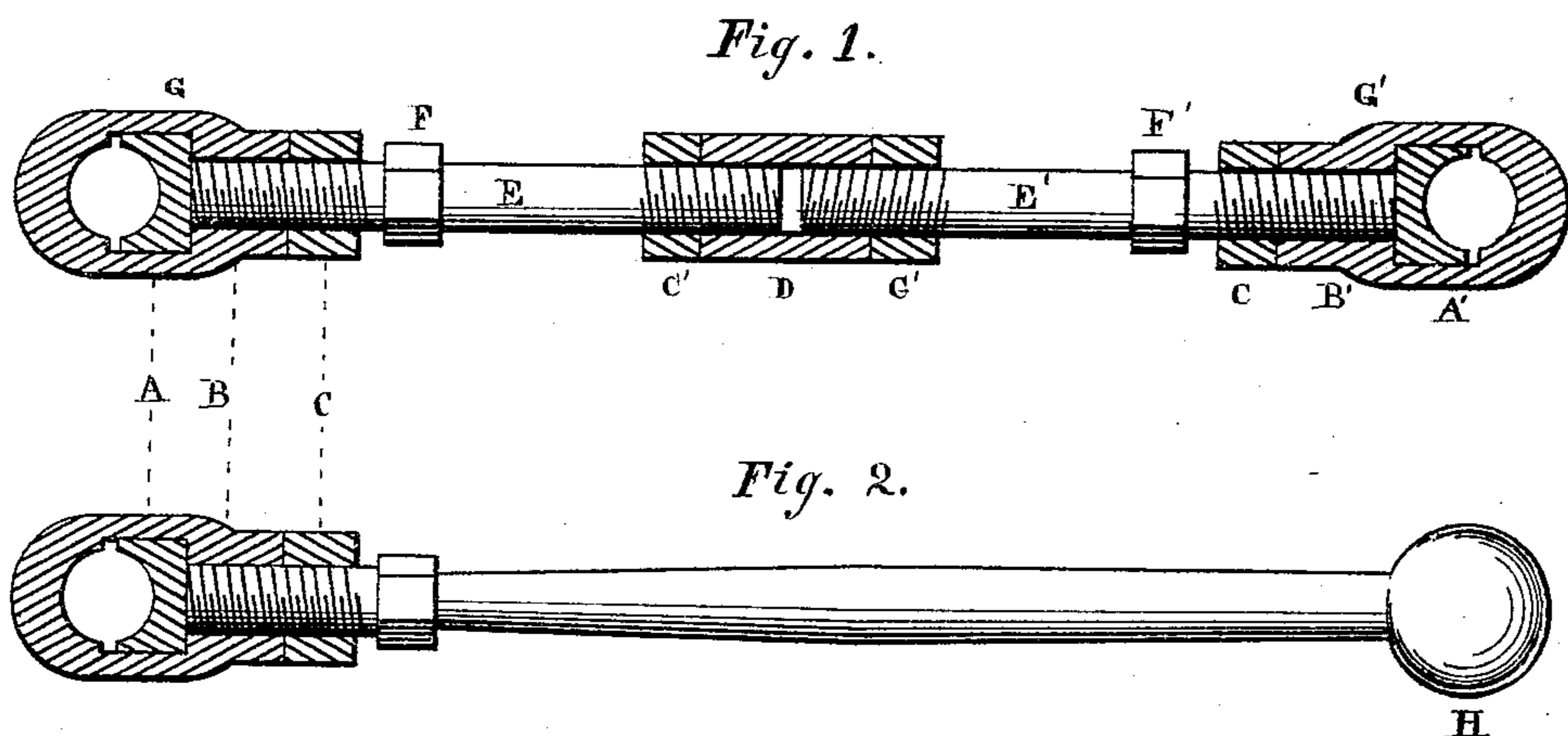


B. F. WILSON.  
Connecting-Rods.

No. 141,191.

Patented July 22, 1873.



Witnesses.

Chas. F. Wilson  
Alfred D. Kelley

Inventor.

Benj. F. Wilson

# UNITED STATES PATENT OFFICE.

BENJAMIN F. WILSON, OF SALEM, OHIO.

## IMPROVEMENT IN CONNECTING-RODS.

Specification forming part of Letters Patent No. **141,191**, dated July 22, 1873; application filed June 4, 1873.

*To all whom it may concern:*

Be it known that I, BENJAMIN F. WILSON, of Salem, Columbiana county, Ohio, have invented a Connecting-Rod for Steam-Engines, Pumps, Reapers, &c., of which the following is a specification:

The object of my invention is to improve the construction of connecting-rods for steam-engines, pumps, reapers, and other machines, where such rods are used by the employment of a screw-thread upon the shaft of the rod to engage with a corresponding female screw formed in the butt or stub end for the purpose of tightening the box therein, instead of using the strap, gib, and cotter, as ordinarily made.

Figure 1, E E, shows the rod made in two pieces, and connected in the center with a right and left hand screw-sleeve, D, which is firmly held in place by the set-nuts C' C'. The extremities of the rod pass through the butts G G' with screw-threads B B' and hold in place the half boxes A A', being secured in

place by the set-nuts C C, as shown. Hexagonal bosses F F' are formed on the rod for the purpose of tightening with a wrench the boxes A A'.

One end of the rod may be formed into a ball, as in Fig. 2, the ball H being secured in a socket in the cross-head in engines or in the plungers of pumps.

I claim as my invention—

1. A connecting-rod with screwed ends and screwed butts, when the several parts are arranged and operated conjointly, for the double purpose of connecting the parts and also tightening the boxes, as shown.

2. In combination with rod E E', butts G G', and boxes A A and set-nuts C C, the right and left hand screwed sleeve D and set-nuts C' C', when arranged substantially as shown.

BENJ. F. WILSON.

Witnesses:

CHAS. F. WILSON,  
M. C. STEVENS.