

(No Model.)

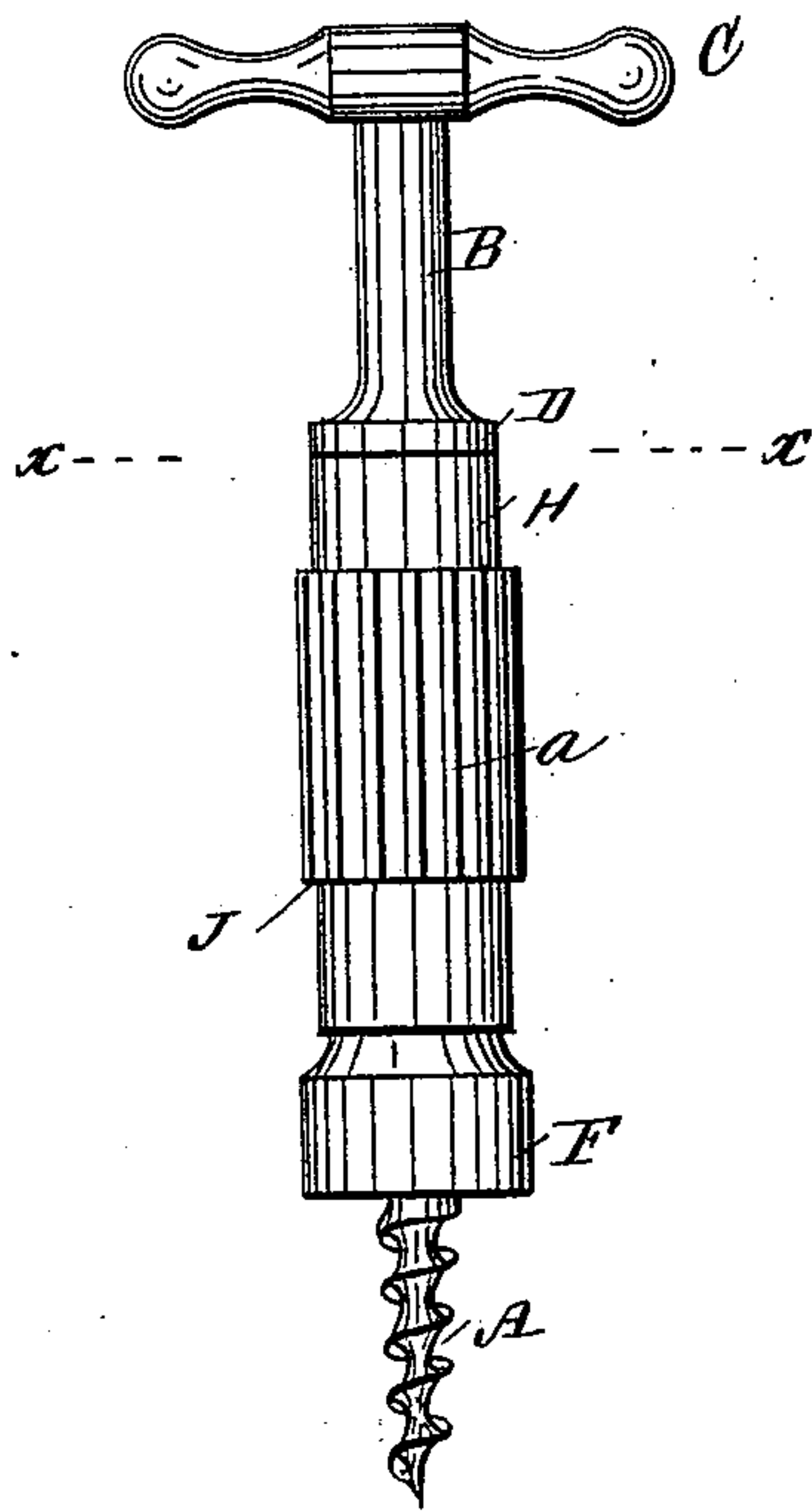
W. E. ALVORD.

CORKSCREW.

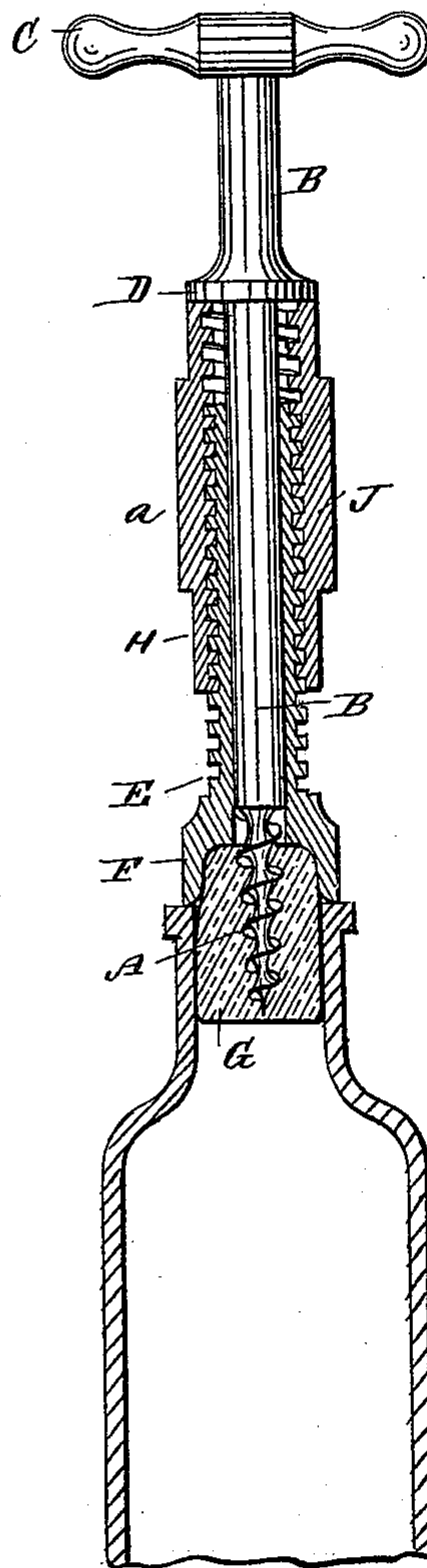
No. 300,936.

Patented June 24, 1884.

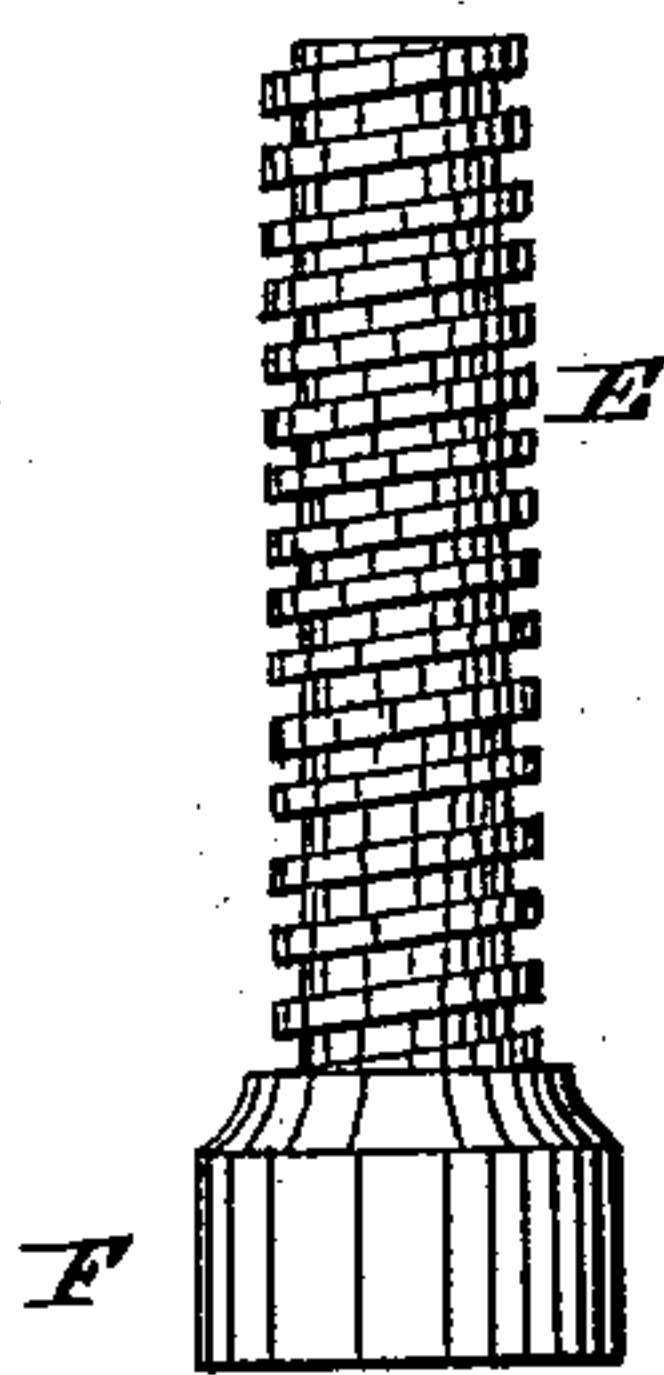
*Fig. 1.*



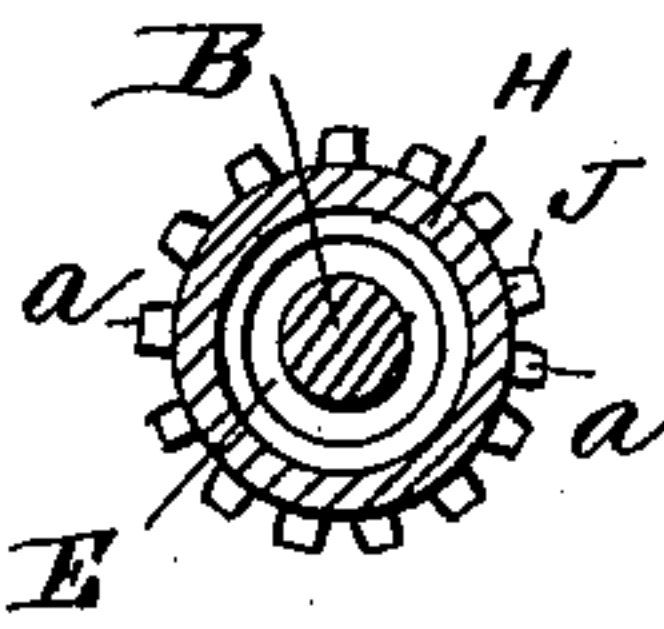
*Fig. 2.*



*Fig. 4.*



*Fig. 3.*



WITNESSES:

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# UNITED STATES PATENT OFFICE.

WILLIAM E. ALVORD, OF APPLETON, WISCONSIN.

## CORKSCREW.

SPECIFICATION forming part of Letters Patent No. 300,936, dated June 24, 1884.

Application filed December 1, 1883. (No model.)

*To all whom it may concern:*

Be it known that I, WILLIAM E. ALVORD, of Appleton, Outagamie county, Wisconsin, have invented a new and Improved Corkscrew, of which the following is a full, clear, and exact description.

The object of my invention is to provide a new and improved corkscrew, which is so constructed that the cork can be extracted without requiring the operator to pull on the corkscrew.

The invention consists in a corkscrew formed on the lower end of a rod contained in an externally-threaded tube, which in turn is contained in an internally-threaded tube. The rod on which the corkscrew is formed is provided with an annular ridge, forming a shoulder, and with a handle, and the exterior tube is provided with longitudinal ridges for holding it so that it cannot slip in the hand.

Reference is to be had to the accompanying drawings, forming part of this specification, in which similar letters of reference indicate corresponding parts in all the figures. Figure 1 is a longitudinal elevation of my improved corkscrew. Fig. 2 is a longitudinal sectional elevation of the same, showing how it is used. Fig. 3 is a sectional plan view of the same on the line *x x*, Fig. 1. Fig. 4 is a longitudinal view of the externally-threaded tube.

A corkscrew, A, is formed on the lower end of a smooth round rod, B, provided at its upper end with a cross-handle, G, and a short distance below the handle with an annular ridge, D, forming a shoulder. The rod B passes loosely through the smooth bore of a tube, E, flared out at its lower end to form a socket, F, adapted to receive the cork G. The tube E is provided on its exterior with a right-hand screw-thread, adapted to engage with a corresponding screw-thread formed on the inner surface of a tube, H, provided on its outside with an enlargement, J, having vertical ribs *a*. The tube E is placed on the bottle in such a manner that the cork G passes into a socket, F, and then the rod B is turned by means of the handle in such a manner that the corkscrew passes into the cork. The

handle of the corkscrew is then held to prevent it from turning, and the tube H is turned from right to left, whereby the said tube H will be screwed upward on the tube E, and will force upward the rod B by acting on its shoulder, thereby extracting the cork from the bottle.

The rod B can be withdrawn from the tube E, and the corkscrew can then be used in the usual manner.

The ridges *a* permit grasping the tube H in such a manner that it will not slip in the hand.

I am aware that it is old to form a corkscrew of a smooth rod having at its upper end a handle and a lug, and at its lower end a screw, and to surround said rod with an externally-screw-threaded tube having an annular flange at its lower end and a notched flange at its upper end, said tube being surrounded by a tube having internal screw-threads at its upper end, whereby upon rotating the corkscrew-rod its lug will engage the notched flange on the externally-threaded tube, causing said tube to be raised, thereby forcing the corkscrew upward and withdrawing the cork.

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

1. In a corkscrew, the combination, with a rod, B, having a corkscrew formed on its lower end, and provided with an annular ridge, forming a shoulder, of the externally-threaded tube E, having a socket, F, formed on its lower end, and of the internally-threaded tube H, surrounding the tube E, substantially as herein shown and described.

2. In a corkscrew, the combination, with a rod, B, having a corkscrew formed on its lower end, and provided with an annular ridge, forming a shoulder, of the externally-threaded tube E, having a socket, F, on its lower end, and the internally-threaded tube H, surrounding the tube E, and provided with ribs *a*, substantially as herein shown and described.

WILLIAM E. ALVORD.

Witnesses:

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W. BAKER.