

(No Model.)

F. GAREIS.

BUNG FOR RACKING BARRELS.

No. 272,039.

Patented Feb. 13, 1883.

FIG. 1.

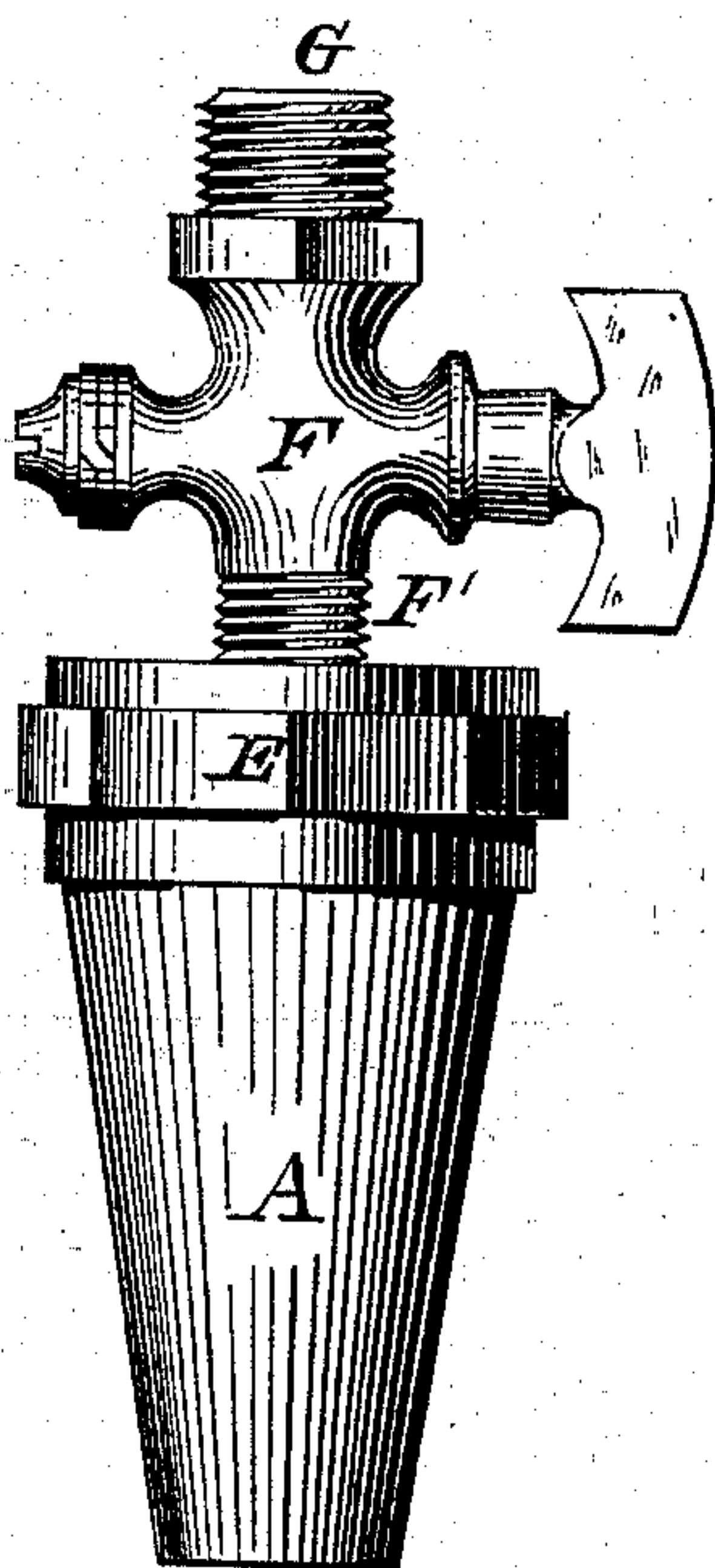


FIG. 2.

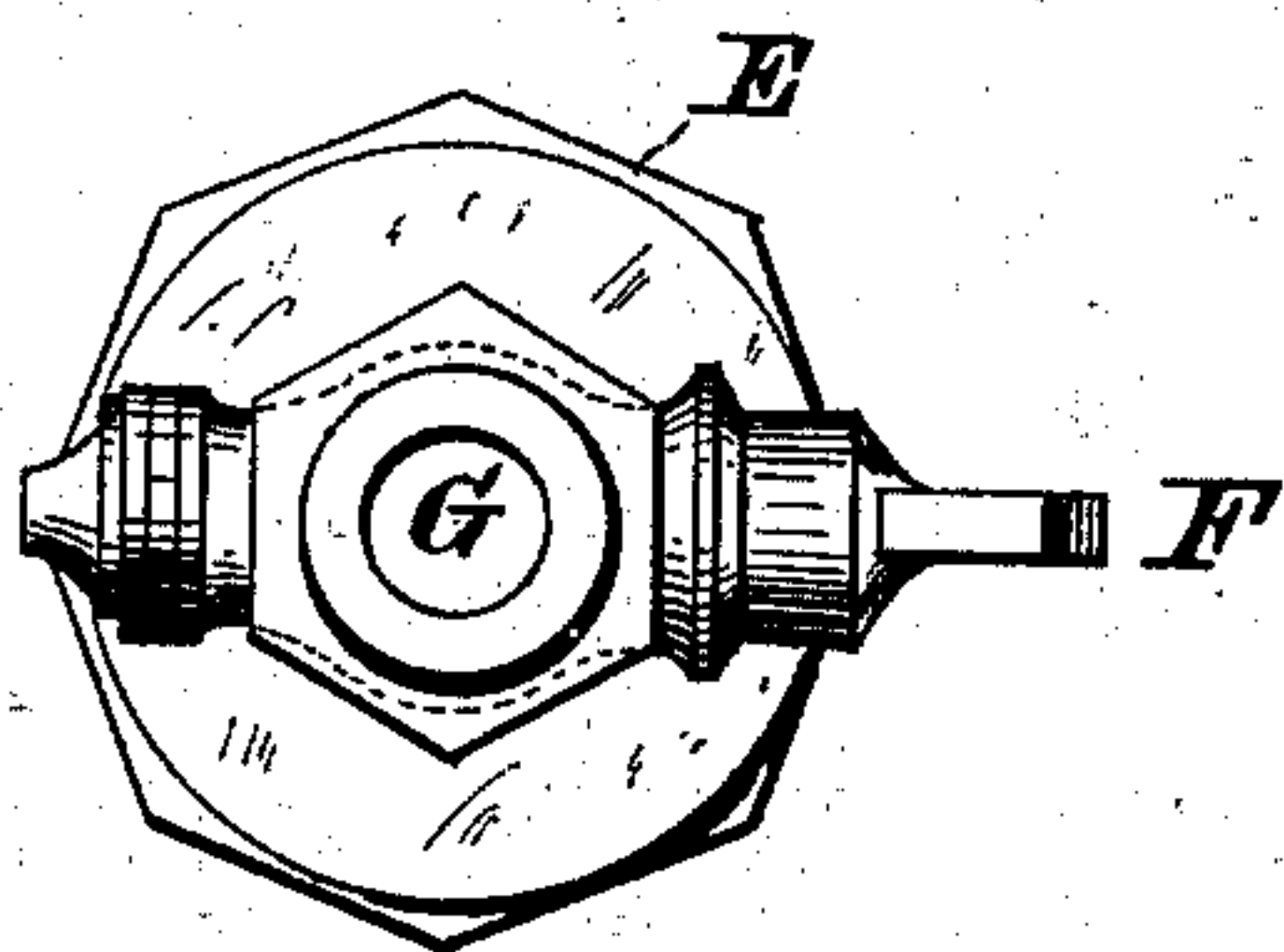
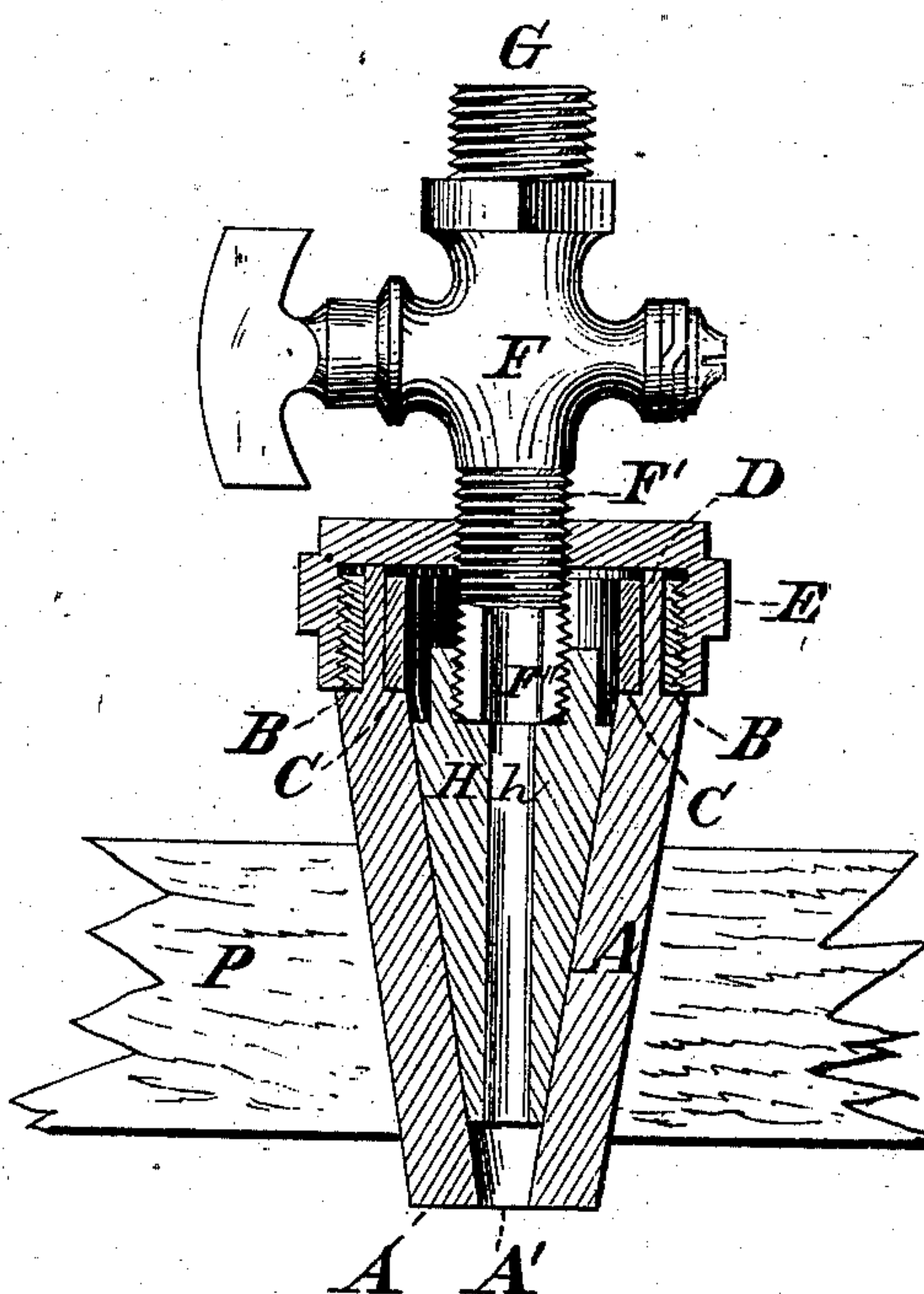


FIG. 3.

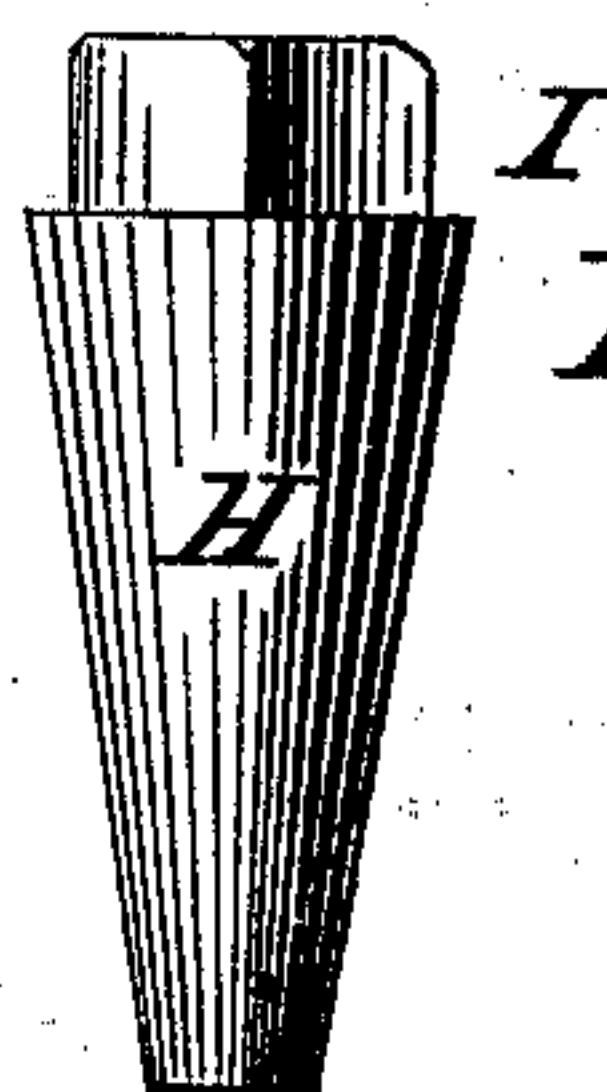


FIG. 4.

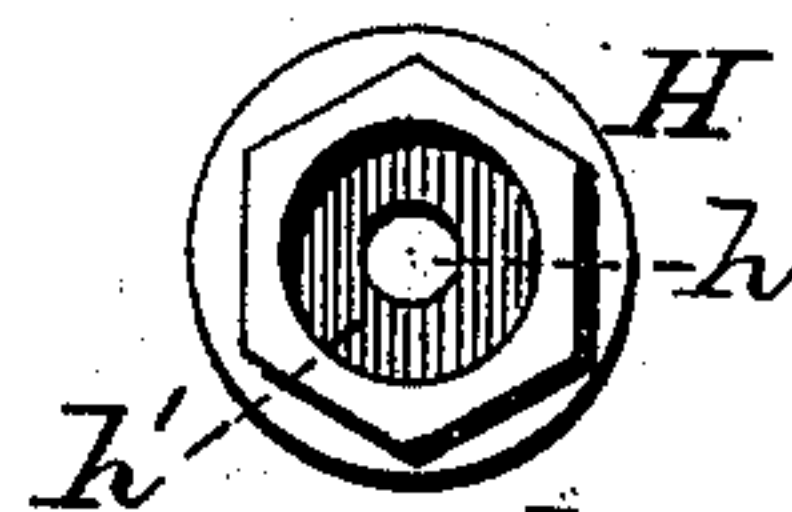


FIG. 5.

Witnesses:

Willie A. Stark  
Al. Stark.

Inventor:

Frank Gareis,  
by Michael J. Stark  
Attorney.



# UNITED STATES PATENT OFFICE.

FRANK GAREIS, OF BUFFALO, NEW YORK.

## BUNG FOR RACKING-BARRELS.

SPECIFICATION forming part of Letters Patent No. 272,039, dated February 13, 1883.

Application filed December 13, 1882. (No model.)

*To all whom it may concern:*

Be it known that I, FRANK GAREIS, of Buffalo, in the county of Erie and State of New York, have invented certain new and useful Improvements on a Bung for Racking-Barrels, &c.; and I do hereby declare that the following description of my said invention, taken in connection with the accompanying sheet of drawings, forms a full, clear, and exact specification, which will enable others skilled in the art to which it appertains to make and use the same.

My present invention has general reference to bungs for racking-barrels and similar storing-vessels for beer, ale, &c.; and it consists essentially in the peculiar and novel combination of parts and details of construction, as hereinafter first fully set forth and described, and then pointed out in the claims.

In the drawings already referred to, which illustrate my said invention more fully, Figure 1 is a side elevation of my improved bung and racking-cock. Fig. 2 is a longitudinal sectional elevation of the same. Fig. 3 is a plan. Fig. 4 is a side elevation of the bung-expander, and Fig. 5 is a plan of the same.

Like parts are designated by corresponding letters of reference in all the figures.

The object of my present invention is the production of a simple and effective expansible bung and stop-cock combined, which can be readily inserted into the barrels, casks, hogsheads, &c., and as readily withdrawn therefrom as occasion requires. To attain this result I construct a bushing, A, of india-rubber or other similar elastic substance or material, in the form of a hollow truncated cone inverted, its exterior size or dimensions depending upon the size of the bung-hole in connection with which the bung is to be used. The upper or largest end of this bushing is contracted at D, so as to receive an exteriorly screw-threaded band, D, and an interior locking band or hook, C, the contracted part D being arranged to project beyond the faces of the bands B C, so as to form a packing-ring for the cap E, screwed over the screw-threaded band B. In this cap E is a screw-threaded aperture, through which (or rather into which) the shank F' of a faucet, F, is passed by means of its exterior screw-thread, as clearly shown in Fig. 2. The lower

end, F'', of the shank F' screws into a recess, h', in the upper end, I, of a tapering plug or body, H, located in the correspondingly-shaped core of the bushing A, so as to make a rigid and fixed connection with said body H.

In operation the cap E is first removed from the bushing A and the faucet F screwed into the cap. Now the body H is attached to the faucet F on the screw end F'' and the cap E replaced. The bung is then loosely inserted into the bung-hole in the stave P, after which the faucet F is screwed downwardly so as to force the body H downward in the bushing A, thereby expanding the latter so much as to cause it to be tightly wedged into the bung-hole. Its removal from the cask, barrel, &c., is an impossibility unless the plug H is first withdrawn from the bushing sufficiently to allow it to contract to its normal size.

On the upper end of the faucet F is provided an external screw-thread, G, by means of which and a suitable hose and coupling connection may be established with an air-pump, an acid-generator, or any other device, apparatus, machine, &c., the plug H being provided with a passage, h, for obvious reasons.

I have constructed this expansible bung with an especial view to its use in connection with the storing-tanks or hogsheads employed in breweries for holding lager and other beer. In these tanks, &c., it often happens that the carbonic acid generated by or in the liquor increases in pressure a predetermined limit, and for this reason provision must be made for the free and unobstructed escape of the surplus gas. This is accomplished by securing (screwing) a safety-valve onto the screw-threaded portion G of the faucet F. I have devised one such apparatus, for which application for Letters Patent will be duly made, and I do not therefore show such device in connection with the present invention. Although designed with a view of utilization, as already mentioned, such use is not the only one to which my said invention may be applied. It can be successfully used as a vent for beer barrels and casks, or to apply air-pressure upon the racking-casks, barrels on tap, &c., by connecting the faucet F with any air-forcing device, and for many other obvious purposes. It may also be successfully used as a simple closing-bung by



substituting for the faucet F a common screw-bolt, (not shown,) by means of which the plug H may be operated from the outside of the bung.

5 Having thus fully described my invention, I claim as new and desire to secure to me by Letters Patent of the United States—

10 1. As a new and improved article of manufacture, an expansible bung consisting of a hollow tapering elastic bushing, a cap having an internal screw-thread, a tapering plug fitting the interior of said bushing; and a screw device passing through a threaded orifice in said cap to actuate said plug from the exterior of the  
15 bung, as and for the object specified.

20 2. A bung for beer and other casks, consisting of an elastic tapering bushing having on its upper end an exteriorly screw-threaded band, a cap screwed to said band and provided with a screw-threaded aperture, and a threaded device, substantially as specified, passing through said cap and actuating an expansion device within said elastic bushing, substantially as described, for the object stated.

3. The combination, with the elastic bush- 25 ing A, having on its upper end a screw-threaded collar, B, and a locking-band, C, of the cap E, faucet F, having the screw-threaded shank F' passed through a threaded orifice in said cap E and engaging with a hollow plug, H, 30 the whole being constructed for operation substantially in the manner as and for the object stated.

4. In expansible bungs, the bushing A, having the contracted portion D, provided with 35 an exterior band, B, and an interior band, C, said portion D projecting beyond the face of said bands and operating in conjunction with a cap, E, substantially as described and stated.

In testimony that I claim the foregoing as my 40 invention I have hereto set my hand in the presence of two subscribing witnesses.

FRANK GAREIS.

Witnesses:

MICHAEL J. STARK,  
JOHN C. DUERR.