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PATENTED MAY 26, 1903.

A. F. LENT & J. W. HATT.

TAPPING BUNG.

APPLICATION FILED SEPT. 20, 1902.

NO MODEL.

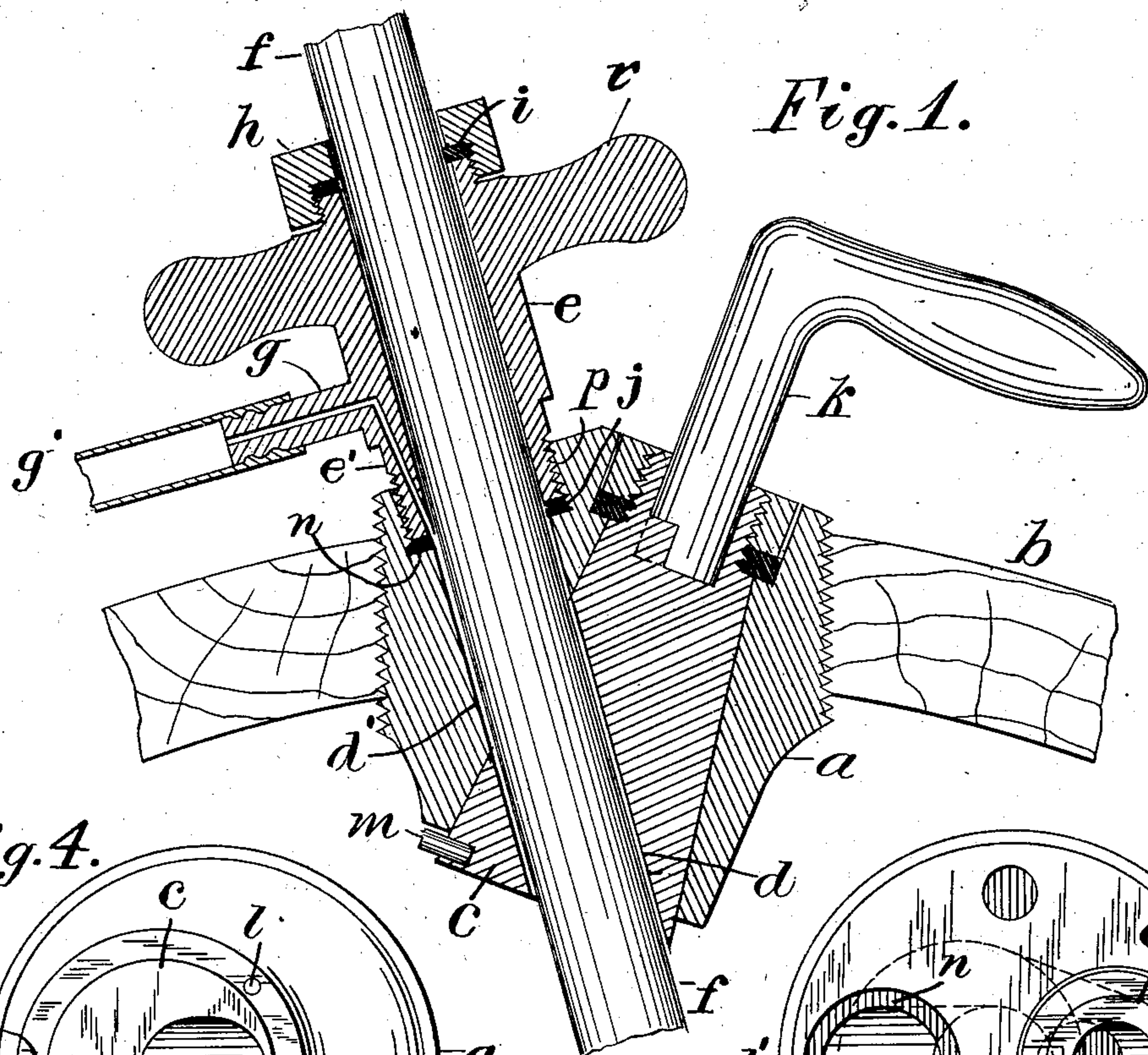


Fig. 1.

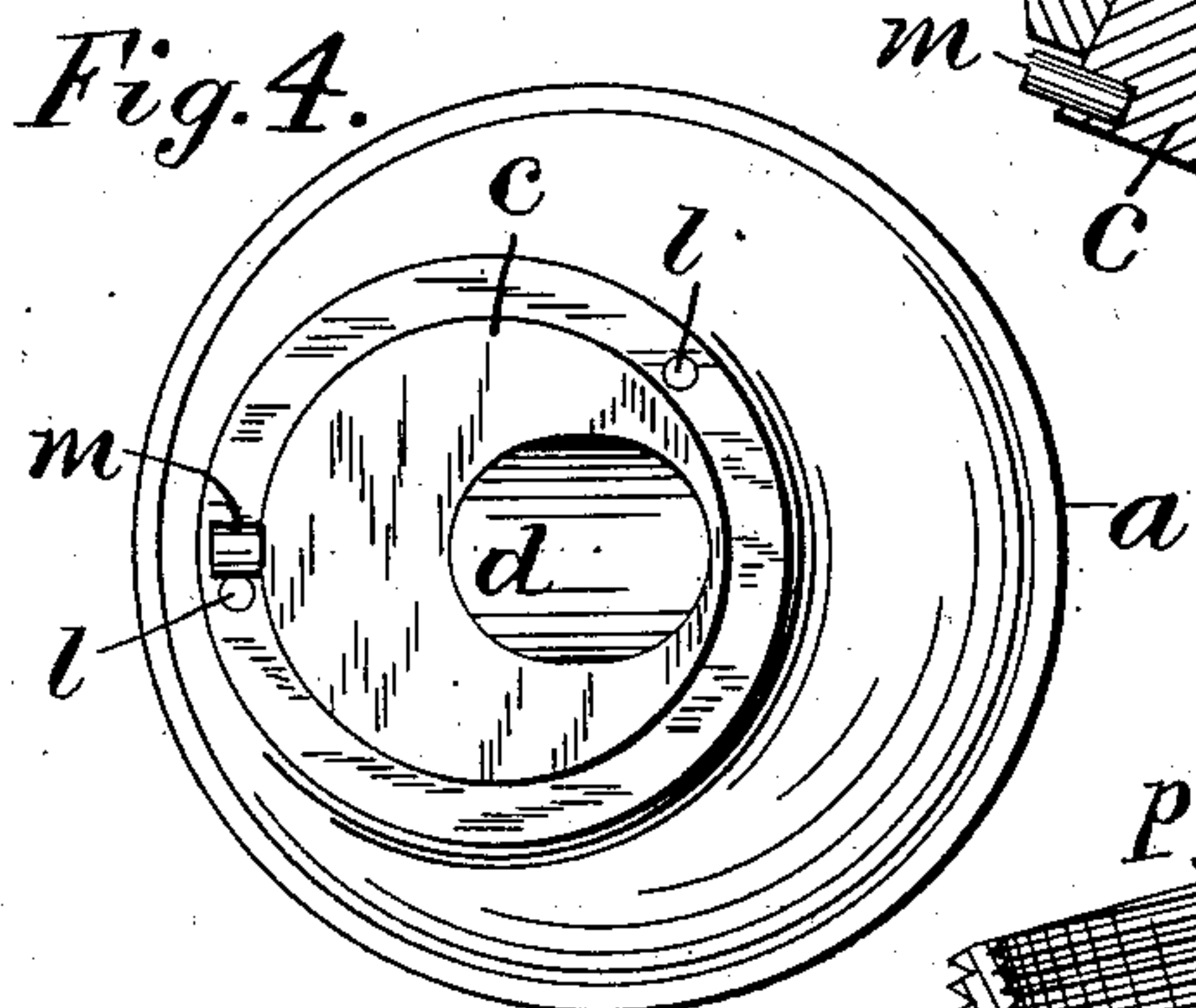


Fig. 4.

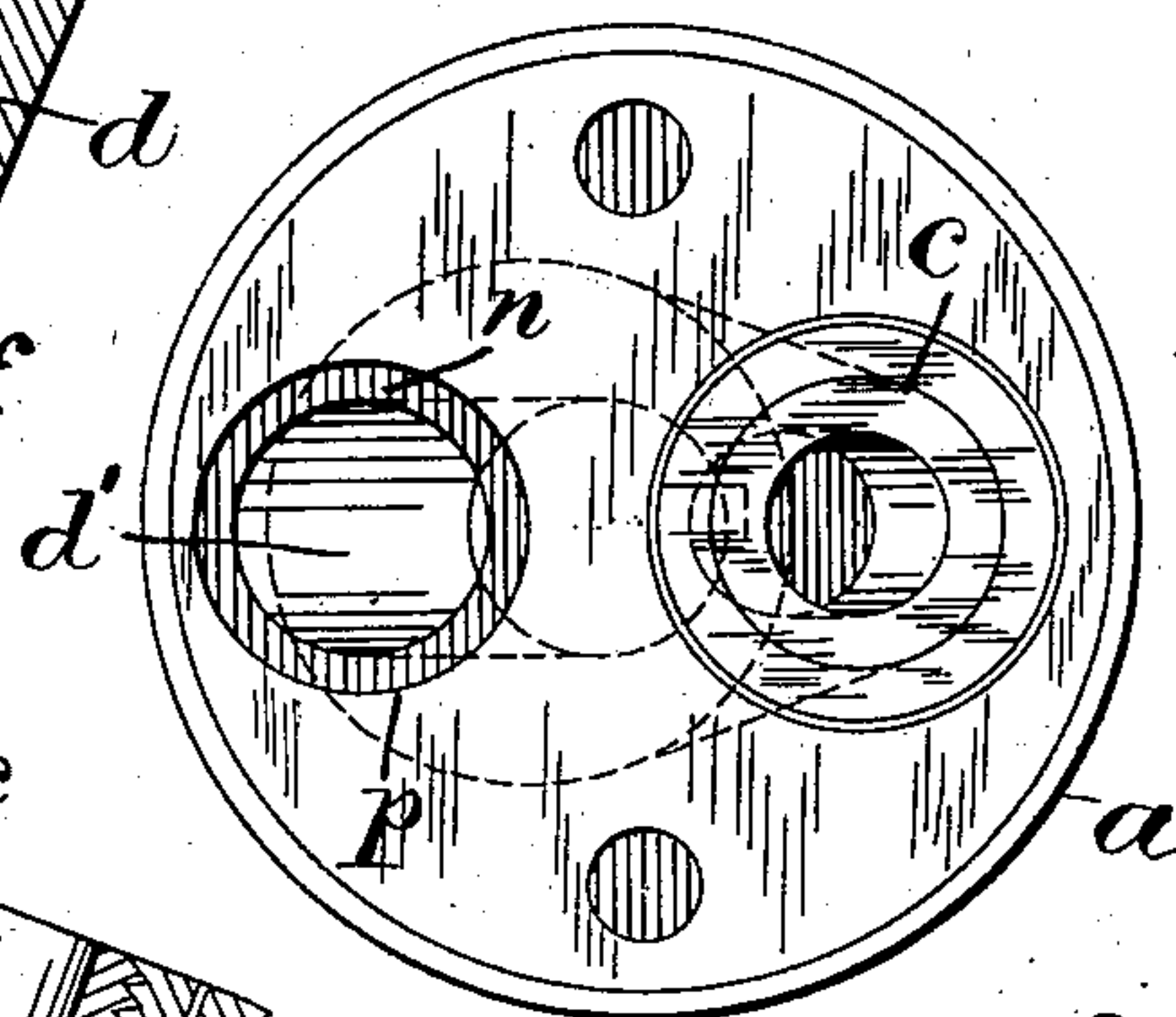


Fig. 3.

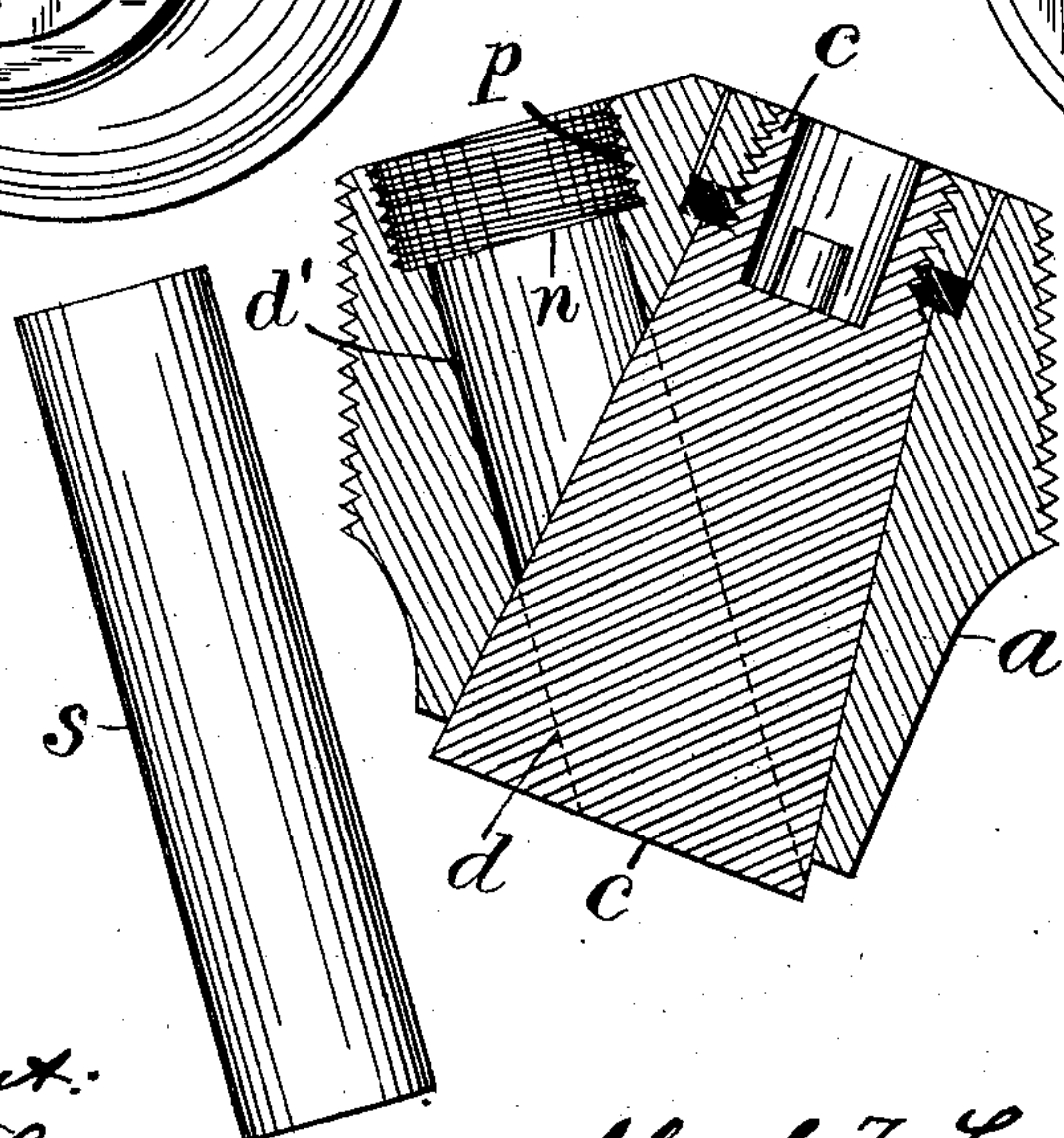


Fig. 2.

Fig. 5.

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## UNITED STATES PATENT OFFICE.

ALVAH F. LENT AND JOEL W. HATT, OF NEWARK, NEW JERSEY.

## TAPPING-BUNG.

SPECIFICATION forming part of Letters Patent No. 729,367, dated May 26, 1903.

Application filed September 20, 1902. Serial No. 124,188. (No model.)

*To all whom it may concern:*

Be it known that we, ALVAH F. LENT, of 34 Ward street, and JOEL W. HATT, of 40 Lawrence street, Newark, Essex county, New Jersey, citizens of the United States, have invented certain new and useful Improvements in Tapping-Bungs, fully described and represented in the following specification and the accompanying drawings, forming a part of the same.

The object of the present invention is to furnish an improved construction for the combined bung and cock which is sometimes applied to beer-kegs to facilitate the drawing of beer therefrom.

The construction relates to that class in which a plug for a cock is inserted through the bung diagonally, with the small end upon the outside of the bung, where provision is made for turning it, and a passage for the insertion of a draft-pipe is formed diagonally through the bung and through the larger end of the plug. The plug is flush with the outer side of the bung, so that there is no projection from the keg or barrel when it is in transit. To form a stuffing-box for the draft-pipe when inserted through the bung, a separate fixture, which is termed herein the "air-supply" fixture, is formed with a screw-thread to fit a suitable socket upon the outer end of the passage from the bung and with handles for turning the fixture, with a stuffing-box upon the outer end to pack the joint with the draft-pipe, and with an air-supply nozzle upon the side to which a hose may be attached for forcing air into the keg to discharge its contents.

The invention will be understood by reference to the annexed drawings, in which—

Figure 1 is a section of the bung with part of the side of the keg and the draft-pipe and air-supply fixture applied to the bung. Fig. 2 is a section of the bung with the cock turned to close the passage. Fig. 3 is a plan of the top of the bung. Fig. 4 a plan of the bottom, and Fig. 5 shows the retarring-stopper.

*a* designates the body of the bung, provided with the usual thread to screw into the keg *b*.

*c* is a plug inserted diagonally in the bung and formed with a diagonal passage *d*, which extends to the interior of the keg and when the plug is suitably turned stands in line with the passage *d'*, which extends to the outside of

the bung, the two passages forming a straight channel from the exterior of the bung to the interior of the keg through which the usual draft-pipe *f* may be freely inserted. The plug and passage are so arranged that when the plug is turned a little more than a quarter-revolution, as shown in Fig. 2, it closes the passage and retains the liquid and gas in the keg during transportation.

The top of the passage *d'* is provided with a threaded socket *p*, having a seat *n*, with packing *j* in the bottom, and the detachable air-supply fixture *e* is provided with threaded shank *e'*, fitted to such socket, and with handles *r* to screw it down upon the packing *j*. The air-supply fixture furnishes an extension of the passage *d'* and is provided on top with a stuffing-box cap *h*, screwed upon an annular packing *i*. The air-supply fixture is screwed into the bung before the plug *c* is turned to open the passage, and the draft-pipe is also inserted through the packing *i* into the fixture, which stands in line with the passage.

The escape of gas around the draft-pipe is thus prevented by the packing *i* when the plug is turned to push the draft-pipe into the keg, the usual cock at the upper end of the draft-pipe preventing escape in that direction. The draft-pipe is thus inserted in the keg without any loss of pressure, and the connection can be made from the cock upon the draft-pipe to the beer-tap before such cock is opened.

The supply-fixture *e* is provided with a nozzle *g* at one side to receive a hose *g'* for supplying the air under pressure to discharge the liquid from the keg, the passage from the nozzle *g* being extended downwardly to the end of the shank *e'*, where the air escapes into the passage *d'* and passes into the keg around the draft-pipe. The air-supply fixture, which is thus connected detachably with the bung by the shank *e'*, serves the double function of introducing the air under pressure to the keg, while it makes a tight joint between the draft-pipe and the keg before the plug *c* is opened and is removable from the bung when the passage is closed to avoid any projection from the exterior of the keg in transit. A wrench *k* is shown fitted to a suitable socket upon the outer end of the plug to turn the same at pleasure, and two stops *l* are formed in the



end of the bung, with a pin *m* upon the plug to limit the rotation of the plug when turned by the wrench and thus set the passages *d* and *d'* in line when required.

- 5 With the combined bung and plug cocks heretofore used it has been considered impos-  
sible to retar the barrel internally without re-  
moving the bung, but we are enabled to protect  
the passages in our construction from the in-  
10 troduction of the tar, so that the bung and  
cock may be left in the barrel when it is re-  
tarred. This protection we secure by the in-  
sertion of a straight wooden stopper *s* tightly  
in the passages *d d'*, which are set in line for  
15 such purpose when it is desired to retar the  
barrel. This wooden stopper excludes the tar  
from both passages, so that when the barrel  
has been retarred the stopper may be with-  
drawn and the entire fixture restored to its  
20 normal condition. The chief part of our in-  
vention is the provision of the bung with the  
diagonal plug, the passages *d d'*, formed  
through the bung and plug, and the passage  
*d'*, having the threaded socket upon its outer  
25 end, with the detachable air-supply fixture  
constructed not only to supply air, but to form  
a tight joint with the draft-pipe when inserted  
in the same before opening the passage to the  
barrel.
- 30 We are aware that it is common in bungs  
to form a plug with passages adapted to set  
in line through the bung and plug for insert-

ing a draft-pipe; but our construction differs  
from others in the particular combination and  
arrangement with the passage *d'* in the bung 35  
of the detachable air-supply fixture shown  
and described herein.

Having thus set forth the nature of the in-  
vention, what is claimed herein is--

The beer draft-fixture for kegs comprising 40  
the bung *a* and the diagonal plug *c* having  
the passages *d* and *d'* in line through the  
same, and the threaded socket *p* having the  
seats *n* with packing *j* thereon, in combina-  
tion with the air-supply fixture *e* having shank 45  
*e'* fitted to the socket *p* and the packing *j*, and  
having handles *r* as set forth, and provided  
upon the top with the stuffing-box cap *h* and  
packing *i*, and upon the side with the air-  
supply pipe *g* having its internal passage ex- 50  
tended downwardly to the end of the shank  
*e'*, the fixture operating for introducing the  
draft-pipe into the keg and supplying air to  
the same, and being detachable from the keg  
during the transportation of the latter. 55

In testimony whereof we have hereunto set  
our hands in the presence of two subscribing  
witnesses.

ALVAH F. LENT.  
JOEL W. HATT.

Witnesses:

THOMAS S. CRANE,  
L. LEE.