

(No Model.)

C. C. LININDOLL.

COMBINED COCK AND COUPLING FOR BARRELS, CASKS, &c.

No. 404,918.

Patented June 11, 1889.

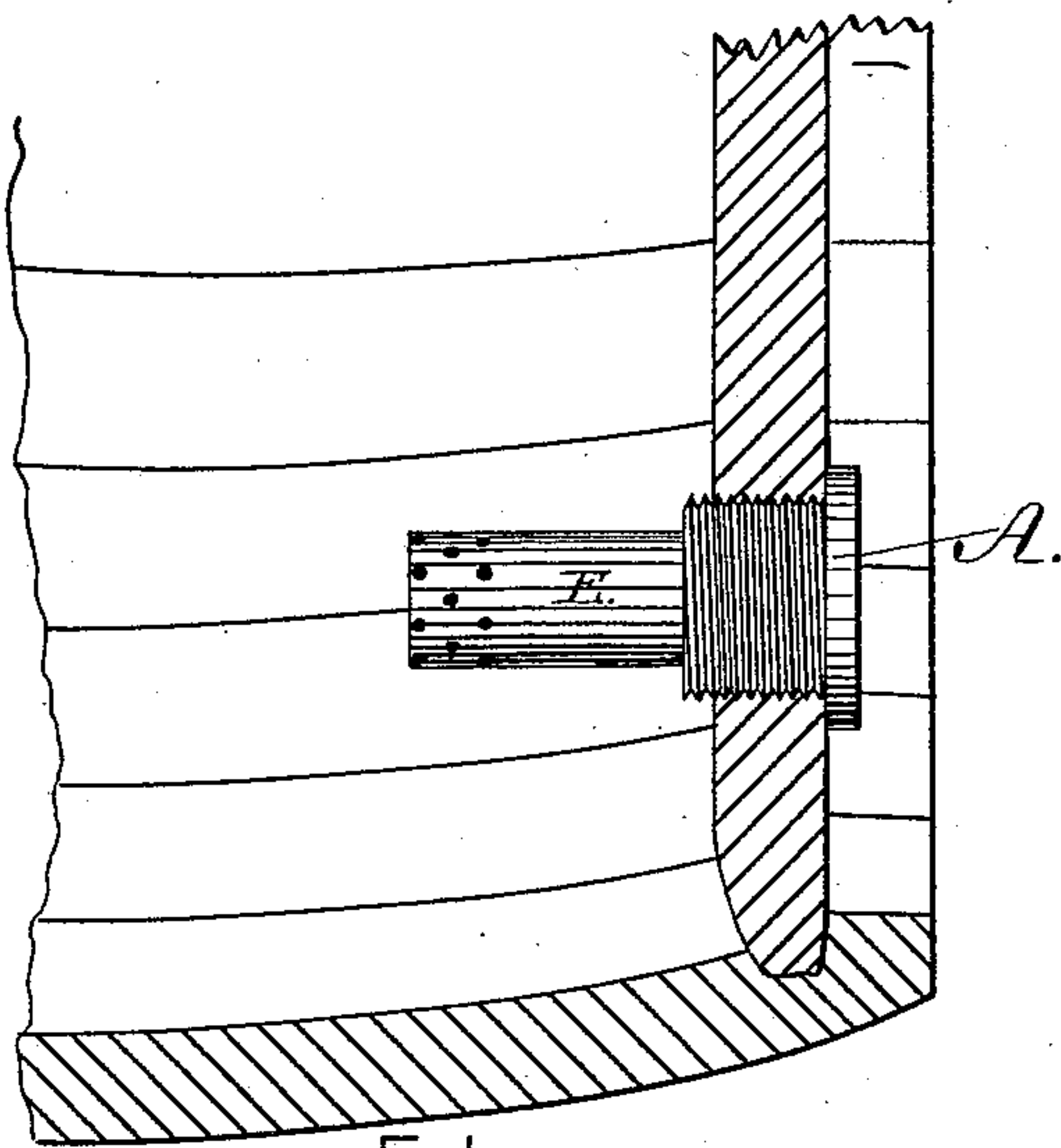


FIG. 1.

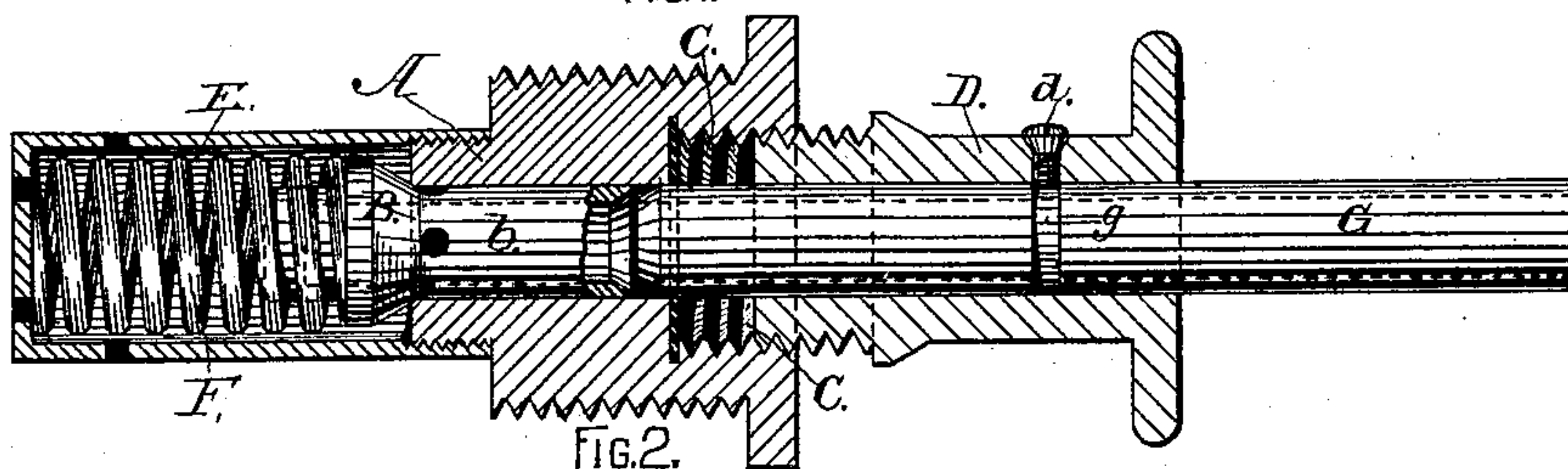


FIG. 2.

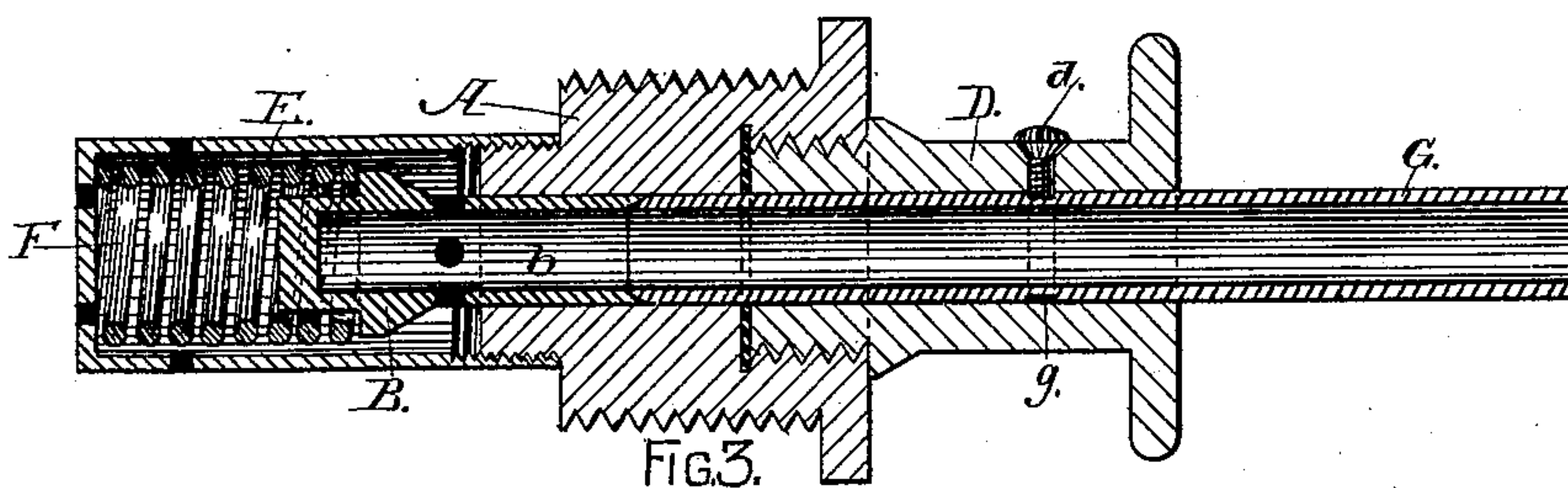


FIG. 3.

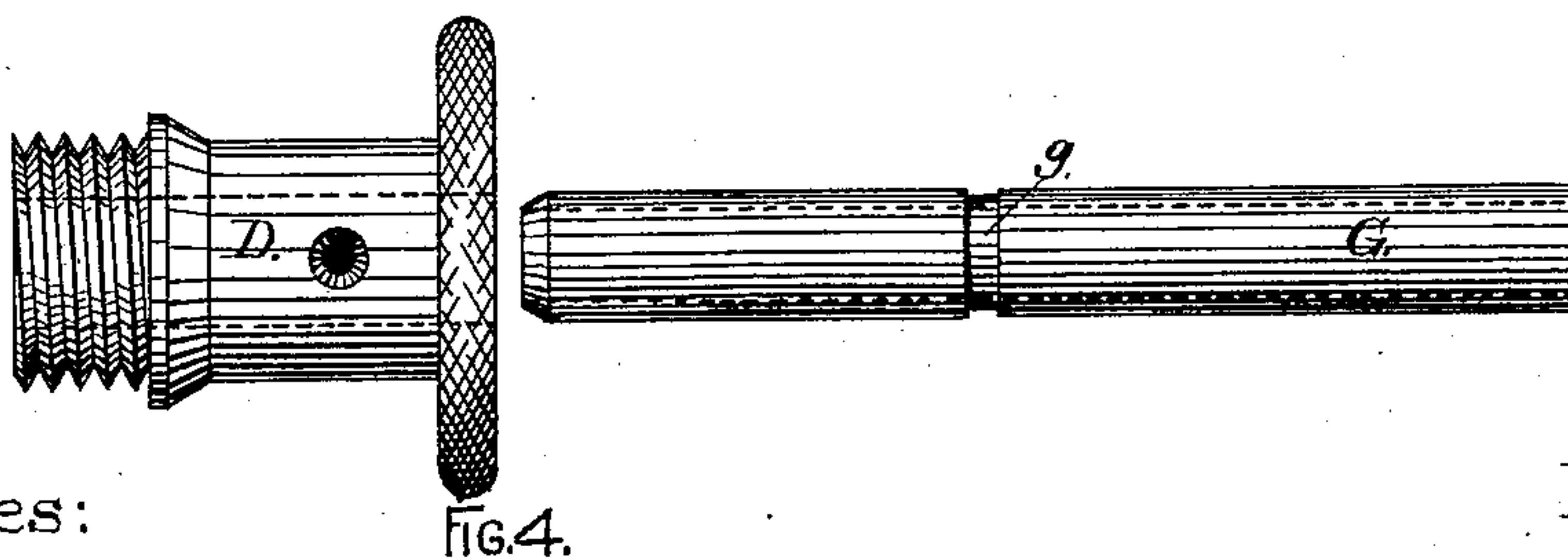


FIG. 4.

Witnesses:

L. B. Brewer,
N. W. Brown.

Inventor:

CHARLES C. LININDOLL,

by

William H. Low,
Attorney.

UNITED STATES PATENT OFFICE.

CHARLES C. LININDOLL, OF FORT EDWARD, NEW YORK, ASSIGNOR OF ONE-HALF TO H. DAVIS NORTHRUP, OF SAME PLACE.

COMBINED COCK AND COUPLING FOR BARRELS, CASKS, &c.

SPECIFICATION forming part of Letters Patent No. 404,918, dated June 11, 1889.

Application filed February 4, 1887. Serial No. 226,519. (No model.)

To all whom it may concern:

Be it known that I, CHARLES C. LININDOLL, of Fort Edward, in the county of Washington and State of New York, have invented a new and useful Combined Cock and Coupling for Barrels, Casks, &c., of which the following is a full and exact description, reference being had to the accompanying drawings, which form part of this specification, and in which—

Figure 1 is a longitudinal section of part of a barrel having the plug-section of my device fixed therein; Fig. 2, an enlarged and detached longitudinal section of my device with valve closed; Fig. 3, a like section with valve opened, and Fig. 4 a plan view of the coupling-plug and supply-pipe separated from each other.

My invention relates to improvements in combined cocks and couplings for barrels and other vessels; and it consists of the device herein shown and described, composed of two separable sections, one of which is permanently secured to the barrel and the other being removably attached to the pipe, through which the liquid is drawn from the barrel.

As represented in the drawings, A is the plug-section of my device, which has on its outer side a screw-thread, by which said section is secured in the barrel. The said section is bored to receive the tubular valve-stem *b* of the spring-actuated valve B. The upper end of said section is provided with an internally-screw-threaded chamber C for receiving the screw-plug D of the coupling device. Attached to or formed on the lower end of the plug-section A is a perforated chamber E for the purpose of containing the spring F, by which the valve B is forced against its seat, so as to form a tight joint at that point when occasion requires. The tubular valve-stem *b* of the valve B should extend upward far enough to nearly reach the bottom of the chamber C when said valve is seated, as shown in Fig. 2, and said stem must be perforated near the valve B to permit the liquid in the barrel to flow through the device when the valve B is open.

The screw-plug D is bored to receive the pipe G, which is uniform in diameter with and is fitted into a seat in the upper end of the tubular stem *b*, so as to form a tight continuous pipe with said stem. The pipe G has

a circumferential groove *g* cut around its outer side, and the point of a set-screw *d*, which is inserted through the side of the screw-plug D, engages in said groove, so as to permit said plug to be turned on said pipe and to allow of the removal of said plug from said pipe. By this means one screw-plug D can be used interchangeably for any number of the pipes G in my device.

The plug-section A is permanently secured in a barrel or other similar vessel for containing liquids, of which ale and lager-beer are the kinds for which my device is specially designed, and the valve B is kept normally closed to its seat by the pressure of the spring F, so as to prevent any flow of the liquid from the barrel, and in this condition the barrel and its contents can be safely transported from place to place without danger of leakage. To draw from the contents of the barrel, the pipe G (which must be permanently attached to the pipe through which the liquid is conveyed to the place of delivery) is inserted in the bore of the plug-section A, wherein it will not at first bear against the end of the tubular stem *b*, thereby permitting the screw-plug D to be partially screwed into the plug-section A before the end of the pipe G presses against the tubular stem *b* to open the valve B, and by so doing a perfect connection can be formed between the end of the pipe G and stem *b* before the liquid begins to flow from the barrel, and leakage therefrom is thereby prevented. The screwing in of the screw-plug D is then continued until the valve B is fully open, whereupon the liquid from the barrel, after passing through the perforations of the tubular stem *b*, will pass through said stem and pipe G, and so on to the point of delivery.

I am aware that combined cocks and couplings for barrels have heretofore been made; but in these earlier devices the equivalent of my screw-plug D has never been made detachable from the pipe G, which construction is found to be a most essential feature.

I claim as my invention—

1. A combined cock and coupling comprising a plug-section to be permanently secured in a barrel and provided with a longitudinal bore, a spring-seated valve having a tubular stem located in said bore, the detachable

screw-plug provided with a longitudinal bore, a removable set-screw extending from the outer periphery into the bore of the screw-plug, and the herein-described connecting
5 pipe-section uniform in diameter with said valve and extending completely through the bore of the screw-plug and provided with an annular groove in its outer periphery, into which the end of said set-screw removably
10 extends, whereby the said pipe is held extending through the plug, for the purpose set forth.

2. The combination, with a plug-section that is permanently secured in a barrel and which is provided with a spring-seated valve B, hav-
15 ing the perforated tubular stem *b*, of the screw-

plug D, to screw into the plug-section and provided with a set-screw *d*, and the pipe G, passing completely through said screw-plug to enter the bore of section A and coact with the valve-stem to open the valve and form a
20 continuous discharge through the valve-stem and pipe from the barrel, said pipe having an annular groove, into which the set-screw extends and by which the pipe is detachably held, extending through the screw-plug, sub-
25 stantially as described.

CHARLES C. LININDOLL.

Witnesses:

ROBT. ARMSTRONG, Jr.,
NORTHUP E. COOK.

Correction in Letters Patent No. 404,918.

It is hereby certified that in Letters Patent No. 404,918, granted June 11, 1889, upon the application of Charles C. Linindoll, of Fort Edward, New York, for an improvement in "Combined Cock and Coupling for Barrels, Casks, &c.," the name of the assignee was erroneously written and printed "H. Davis Northrup," whereas it should have been written and printed *H. Davis Northup*; that the proper correction has been made in the files and records pertaining to the case in the Patent Office, and should be read in the Letters Patent to make the same conform thereto.

Signed, countersigned, and sealed this 18th day of June, A. D. 1889.

[SEAL.]

Countersigned:

ROBERT J. FISHER,

Acting Commissioner of Patents.

CYRUS BUSSEY,

Assistant Secretary of the Interior.