(No Model.)

C. C. LININDOLL.

COMBINED COCK AND COUPLING FOR BARRELS, &c.

No. 341,339. Patented May 4, 1886.

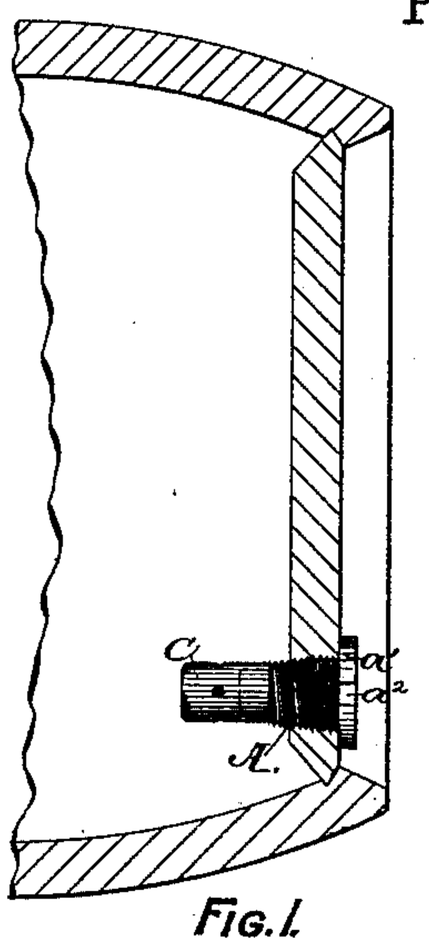

FIG. 1.

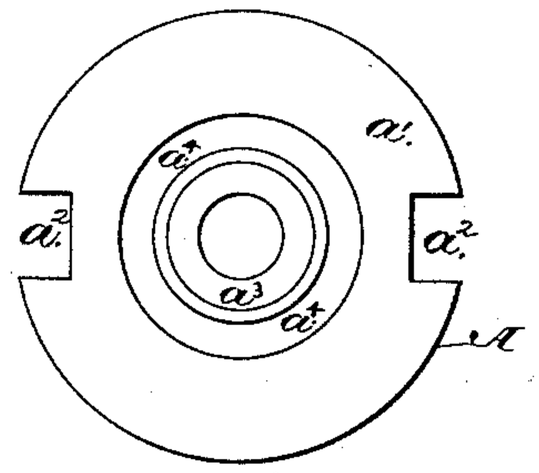

FIG. 4.

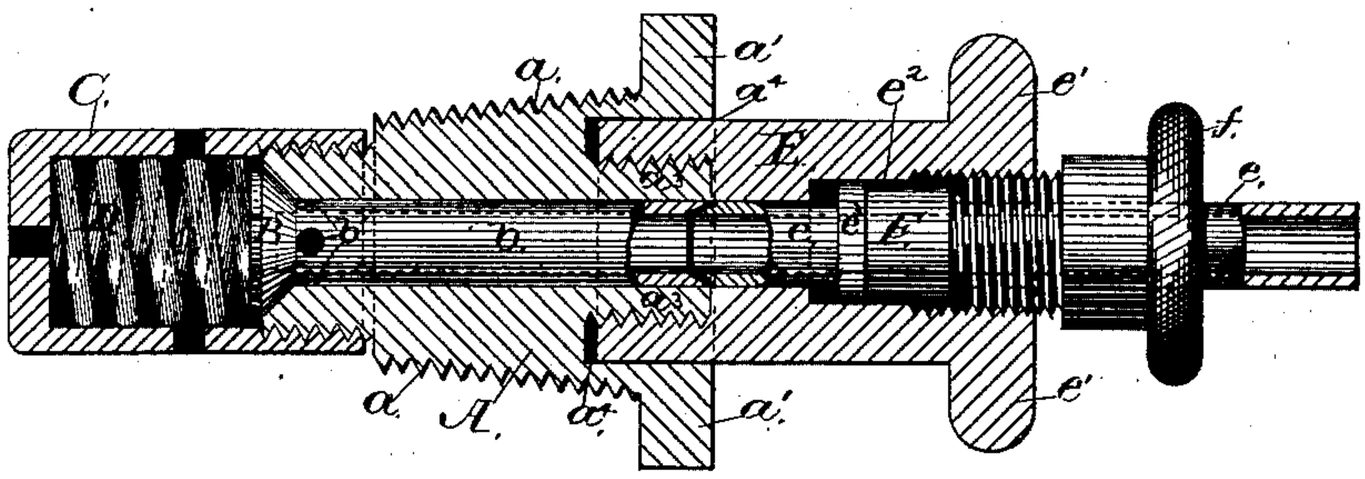

FIG. 2.

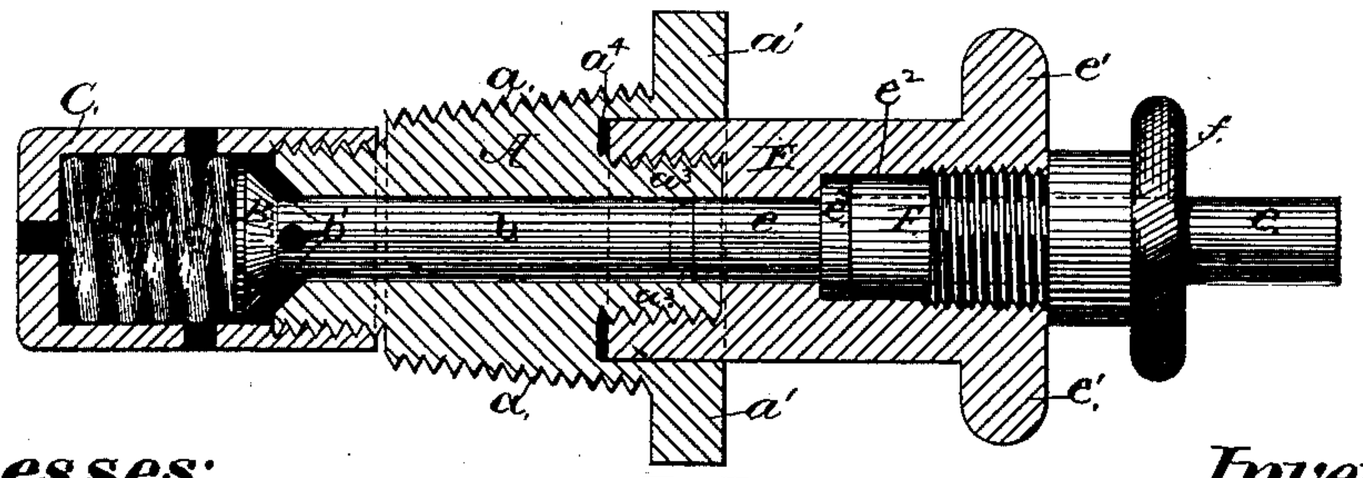

FIG. 3.

Witnesses:

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UNITED STATES PATENT OFFICE.

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COMBINED COCK AND COUPLING FOR BARRELS, &c.

SPECIFICATION forming part of Letters Patent No. 341,339, dated May 4, 1886.

Application filed February 1, 1886. Serial No. 190,394. (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 specification.

My invention consists of a cock and coupling made in two separable sections, one of said sections being a plug to be permanently secured to the barrel, and provided with a spring-seated valve and the other being attached to a pipe through which the liquid is drawn.

My device, which is specially designed for use on barrels and casks for containing ale, is so constructed that when the detachable part is suitably provided with a short pipe or gooseneck, and temporarily connected to the plug-section which is fixed in the barrel, a small portion of the contents of the barrel can be drawn off for the purpose of examining and testing its quality.

In the accompanying drawings, which are herein referred to and form part of this specification, Figure 1 is a longitudinal section of one end of a barrel provided with the plug-section fixed therein; Fig. 2, an enlarged longitudinal section of my combined cock and coupling, with the valve closed; Fig. 3, a like section with the valve opened, and Fig. 4 an end view of the outer end of the plug-section of my device.

As represented in the drawings, A is the plug-section of my device. Said section is bored longitudinally to receive a tubular-stemmed valve, B, and is provided with a screw-threaded portion, *a*, by which said section is secured in a barrel, and with a flange, *a'*, having notches a^2 or other suitable provision for receiving a wrench, by means of which said section can be screwed into an opening formed to receive it. At the inner end of said plug-section a perforated chamber, C, is formed or attached for the purpose of containing the spring D, which bears against the valve B, to keep said valve closed to its seat, with which it forms an air and water tight joint. The outer end of the plug-section A is provided with a screw-threaded portion, to which the detachable section is coupled. Said screw-threaded portion I preferably make in the form of the collar a^3, whose outer end will be flush with the face of the flange *a'*. Said collar is surrounded by an annular space, a^4, into which the coupling-nut E enters. The tubular stem *b* of the valve B should be of sufficient length to reach nearly to the outer end of the collar a^3 when said valve is closed to its seat, as shown in Fig. 2. Said stem is provided with perforations *b'*, through which, when the valve B is open, the ale will flow into the tubular stem *b*, and the bore of said stem is preferably enlarged flaringly, as shown in Fig. 2, for a purpose hereinafter set forth. The coupling-nut E is bored centrally to receive the pipe *e*, and is tapped at its inner end to screw onto the collar a^3, so that the parts A and E can be coupled together. The coupling-nut is provided with a head, *e'*, by which said nut is screwed into and out of the plug A. A chamber, e^2, is formed in the outer end of said coupling-nut to receive a collar, e^3, on the pipe *e*, and said chamber is tapped to receive a screw-sleeve, by which the valve B is forced open against the pressure of the spring D. The screw-sleeve F is bored to receive the pipe *e*, which projects beyond the outer end of said sleeve, for the purpose of permanently attaching thereto a pipe, through which the ale can be delivered at any desired place on or near the premises in which the apparatus is used. The outer end of the sleeve F is provided with a milled head, *f*, by which said sleeve can be turned, as occasion requires. The inner end of said sleeve bears against the collar e^3, so that as the sleeve F is screwed inwardly the inner end of the pipe will be pushed in against the outer end of the tubular stem *b*, and thereby the valve B will be forced away from its seat against the resistance of the spring D, as shown in Fig. 3. The inner end of the pipe is tapered to fit into the flaring outer end of the stem *b*, so as to produce a coincidence of the bore of said pipe and stem. When the sleeve E is screwed outwardly, the resilience of the spring D will force the valve B to close against its seat in the plug A.

In applying my device to use the plug A

may be secured in a barrel, as shown in Fig. 1, or it may be sunk, so that the outer face of the flange *a'* will be flush with the plane of the wood in which it is inserted; but in either case it will be so arranged that a Government revenue or tax stamp can be secured to the barrel so as to cover the outer end of said plug, so as to prevent dirt from getting into the annular space a^4 and the bore of tubular stem *b*, and it is obvious that after the stamp is so placed the coupling-nut E cannot be inserted into the plug A without destroying said stamp. The coupling-nut E and the inner end of the pipe *e* should be made so as to be perfectly interchangeable with any of the plugs A, so that when the pipe *e* is once attached to a conducting-pipe any barrel that is provided with such a plug can be readily connected with the coupling device, and from this it will be seen that but one coupling device will be required for many of the plug-sections A.

I claim as my invention—

The combination, with a plug-section, A, that is permanently fixed in a barrel, and which is provided with a spring-seated valve, B, having a perforated tubular stem, *b*, as herein set forth, of a coupling device herein described, consisting of a nut, E, that is adapted to couple to the plug A, and containing a pipe, *e*, that is adapted to coact with the sleeve *b* to form a continuous discharge-opening, and a screw-sleeve, F, that is adapted to move the pipe *e* to effect the opening of the valve B, as and for the purpose specified.

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Witnesses:

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