

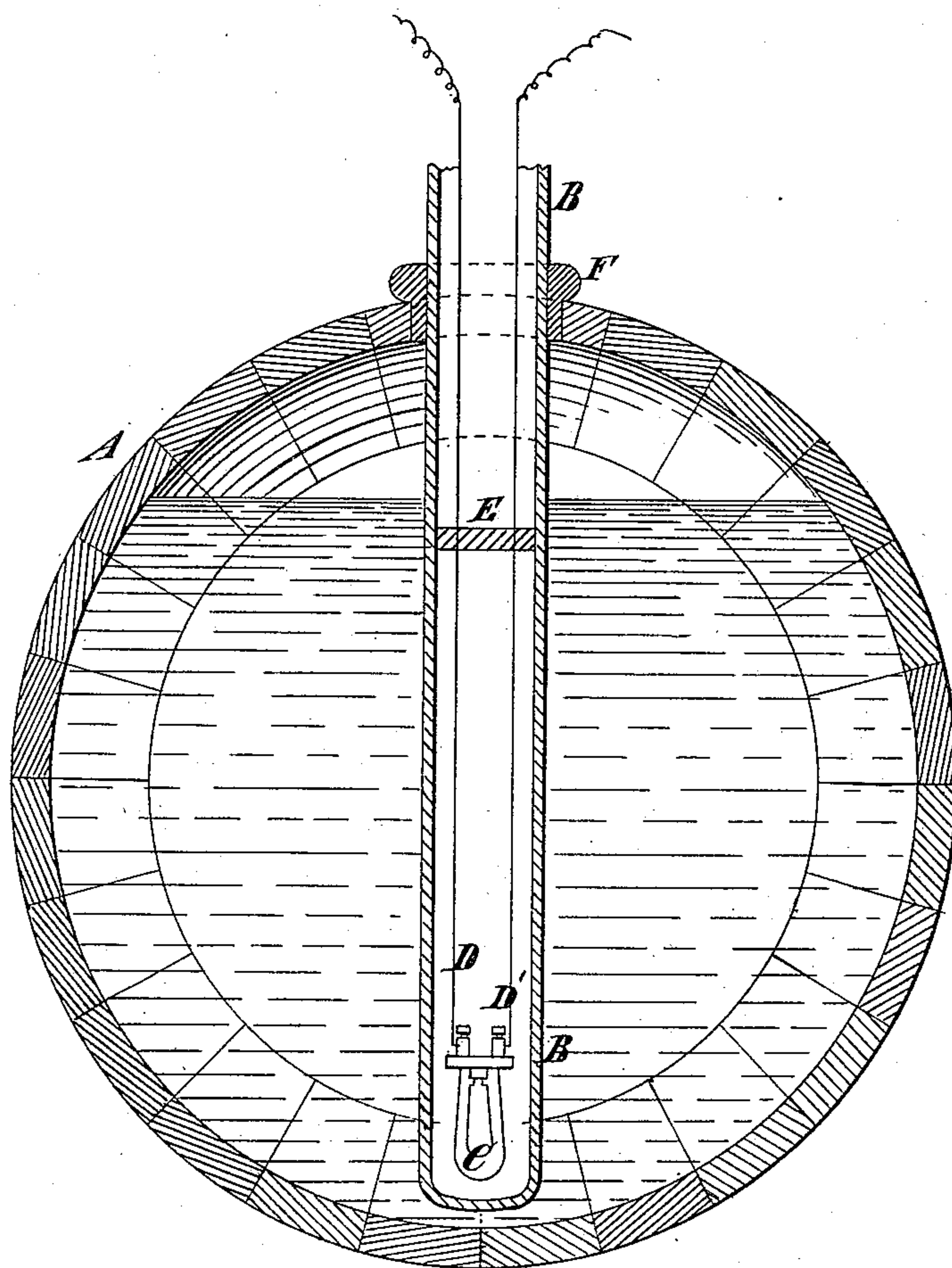
(No Model.)

H. A. FITCH.

APPARATUS FOR AGING SPIRITUOUS LIQUORS, WINES, &c.

No. 334,222.

Patented Jan. 12, 1886.



Witnesses
James H. Bowen.
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UNITED STATES PATENT OFFICE.

HORACE A. FITCH, OF NEW YORK, N. Y.

APPARATUS FOR AGING SPIRITUOUS LIQUORS, WINES, &c.

SPECIFICATION forming part of Letters Patent No. 334,222, dated January 12, 1886.

Application filed October 22, 1884. Serial No. 146,227. (No model.)

To all whom it may concern:

Be it known that I, HORACE A. FITCH, of New York, in the county of New York and State of New York, have invented a certain
5 new and useful Improvement in Apparatus for Aging Spirituous Liquors, Wines, &c., of which the following is a specification.

My improvement relates to apparatus for aging spirituous liquors, wines, &c., by plac-
10 ing in a receptacle containing the same a lamp, which will shed light and impart heat thereto. Liquors and wines may be aged, ripened, and purified in this way.

My improvement consists in the combina-
15 tion, with a receptacle for containing liquor, wine, &c., of a glass tube extending into the receptacle and having a closed bottom and a lamp arranged in the portion of the tube which is within the receptacle.

20 The accompanying drawing is a transverse section of a barrel, a side view of a glass tube extending into the barrel, and a side view of a lamp in the tube.

A designates the barrel. It may be of any
25 approved style. I am not confined to the use of such a receptacle, but may use one of any other suitable construction.

B designates a glass tube, which is closed at the bottom, but which is shown as open at
30 the top. It extends down into the lower part of the barrel through a bung-hole in the upper part of the barrel. In the glass tube I place a lamp, C. While this lamp may be of any kind, it will preferably be an incan-
35 descent electric lamp. The wires D D', whereby the electric current is conducted to and from the lamp C, extend down the tube to it.

Above the lamp I preferably arrange in the tube B a plug or stopper of india-rubber, E, in
40 order that the heat generated by the lamp may be prevented from escaping at the upper end of the tube. Of course when any lamp except an electric lamp is employed provision would have to be made for conveying to it, through
45 the tube B, air sufficient for supporting combustion, and for conveying from it, through the tube B, the waste products of combustion. The plug or stopper E will, as far as practicable, be kept on a level with the surface of
50 the liquor in the barrel.

Around the tube B, where it emerges from the barrel, I preferably place a packing of india-rubber or other suitable material, F, whenever the barrel has to be kept tightly

closed, to prevent damage ensuing to the con- 55 tents, or evaporation of its spirits.

By my improvement liquors, wines, &c., may be treated by a lamp producing arti-
ficial light and heat, and yet direct contact
of the lamp with the liquor, wine, &c., will 60 be prevented. This is desirable, because all fumes or vapor arising from the lamp will be prevented from firing or contaminating the contents of the receptacle. All vapors arising from the contents of the receptacle will 65 also be prevented from coming in dangerous proximity to the lamp. The heat of the lamp will be so mollified by the glass tube B before affecting the contents of the receptacle that evaporation of the contents of the receptacle 70 will not be so liable to occur as otherwise.

As nothing but the surface of the glass tube comes in contact with the contents of the re-
ceptacle, they are not contaminated.

I do not claim, broadly, the process of 75 aging alcoholic liquors, consisting in exposing them to the influence of the light proceeding from an electric lamp or electric lamps immersed in the liquor contained in a closed vessel. 80

What I claim as my invention, and desire to secure by Letters Patent, is—

1. The combination, with a receptacle for containing alcoholic liquors, &c., of a glass tube extending into the receptacle and hav- 85 ing a closed bottom and a lamp arranged in the portion of the tube which is within the receptacle, substantially as specified.

2. The combination, with a receptacle for containing alcoholic liquors, &c., of a glass 90 tube extending into the receptacle and having a closed bottom, a lamp arranged in the portion of the tube which is within the receptacle, and a stopper in the tube above the lamp, substantially as specified. 95

3. The combination, with a receptacle for containing alcoholic liquors, &c., of a glass tube extending into the receptacle and hav-
ing a closed bottom, a packing between the tube and the sides of the hole in the receptacle 100 through which it passes, and a lamp arranged in the portion of the tube which is within the receptacle, substantially as specified.

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Witnesses:

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