

**CHAPLINS'**  
**PATENT SEA-WATER DISTILLING APPARATUS,**  
 AS USED FOR  
**SAILING VESSELS,**  
 WITH  
**STEAM-PUMP ATTACHED FOR CIRCULATING WATER.**

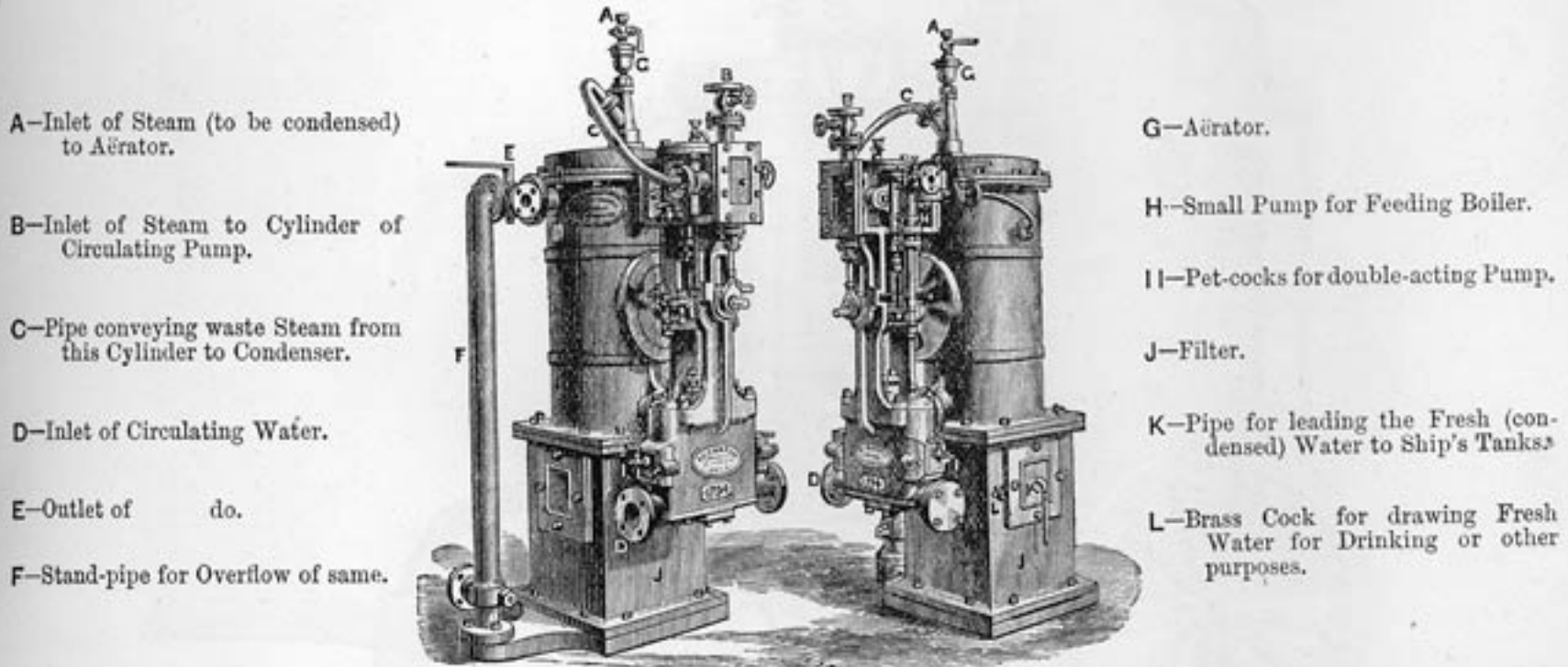


FIG. 24 and 25.

Two views are here given of this very compact and convenient arrangement of our **PATENT SEA-WATER DISTILLING APPARATUS**, which is adapted for Sailing Vessels, and may be fitted either in connection with ordinary Steam Winch Boiler, or otherwise, as may be found most convenient.

The steam from Boiler is admitted at **A** to the Aëerator, and passes through it to the Condenser, and thence (as fresh water) into the Filter, **J**. The steam for working the double-acting Pump for circulating the condensing water, is admitted at **B** to the cylinder of pump; and the waste steam from this cylinder can, if desired, also be conveyed to the condenser by pipe **C**, and so utilized. The circulating water is pumped into condenser at **D**, and escapes at **E** by a three-way cock, so that it can be either taken down the stand-pipe, **F**, for conveyance to the sea, or passed through Hose for washing decks, for extinguishing fire in case of need, or for other purposes. The small single-acting pump **H**, for feeding boiler, draws from the circulating water at its most heated point, and is worked by the cross-head of the engine of steam pump. The fresh water, ready for *immediate* use, is discharged from filter by pipe **K** to tanks, or drawn off by cock **L** if desired.

The Apparatus may be placed in any convenient part of the vessel. When it is preferred to place it below deck, an arrangement is supplied for the introduction of fresh air from above, thus securing the distilled water against contamination from dust or other impurities.

**LIST OF LEADING SIZES.**

|   | No. 1 | No. 2 | No. 3 | No. 4 | No. 5 | No. 6 | No. 7 | No. 8 |
|---|-------|-------|-------|-------|-------|-------|-------|-------|
| Fresh Water produced per Hour,.....gallons, | 12    | 23    | 45    | 65    | 85    | 105   | 125   | 145   |
| Height, including Aëerator,.....            | 4' 3" | 5' 3" | 6' 4" | 7' 0" | 7' 2" | 7' 4" | 7' 8" | 8' 6" |
| Approximate Weight, including Pump, Cwts.,  | 8     | 12½   | 16½   | 23    | 31½   | 39½   | 42    | 45    |

*For Prices, see Current List. Larger Sizes per Special Estimate.*

By Order in H. M. Council, Gazetted 5th December, 1865,

GOVERNMENT EMIGRANT, TROOP, and other PASSENGER VESSELS fitted with this DISTILLING APPARATUS, may sail with HALF the quantity of Fresh Water required under the Passengers' Act.

Chaplins' Patent Steam Cranes, Hoists, Locomotives, &c., always in stock or in progress.

**ALEX. CHAPLIN & CO.,** Patentees and Sole Manufacturers,  
 CRANSTONHILL ENGINE WORKS, GLASGOW.

LONDON HOUSE:

**M<sup>C</sup>KENDRICK, BALL & CO.,** 63, Queen Victoria Street, London, E.C.