

## **Specification of Alexander Melville Clark : fanning apparatus.**

### **Contributors**

Clark, Alexander Melville.

### **Publication/Creation**

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A.D. 1871, 9th OCTOBER.

N° 2679.

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S P E C I F I C A T I O N

OF

ALEXANDER MELVILLE CLARK.

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FANNING APPARATUS.

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LONDON:

PRINTED BY GEORGE E. EYRE AND WILLIAM SPOTTISWOODE,  
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1872.





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**Fanning Apparatus.**

*(This Invention received Provisional Protection only.)*

**PROVISIONAL SPECIFICATION** left by Alexander Melville Clark at the Office of the Commissioners of Patents, with his Petition, on the 9th October 1871.—A communication from abroad by Joseph Ménonval-Belcour, of Marseilles, France.

- 5 I, ALEXANDER MELVILLE CLARK, of 53, Chancery Lane, in the County of Middlesex, Patent Agent, do hereby declare the nature of the said Invention for "**AN IMPROVED SELF-ACTING FANNING APPARATUS**," to be as follows:—

10 This Invention relates to a means of operating hand fans automatically, in a similar manner to but as a substitute for the fatiguing action of the hand. One advantage of an automatically acting fan is that the hands are at liberty to follow any occupation without interruption. Fans thus operated may also serve for cooling the air of sick rooms or for charging the air with medicinal vapors obtained from  
15 volatile liquids, such as ether, chloroform, or disinfectants. In this case small tubes containing wicks are adapted to the fan for supplying the liquid at its centre by capillary action, the vapors being disseminated by the action of the fan. Perfumes of various kinds may also be used in

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*Clark's Improved Self-acting Fanning Apparatus.*

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like manner, and the fan may be combined with many articles, such as table or toilette ornaments, which also serve to contain the mechanism operating the fan.

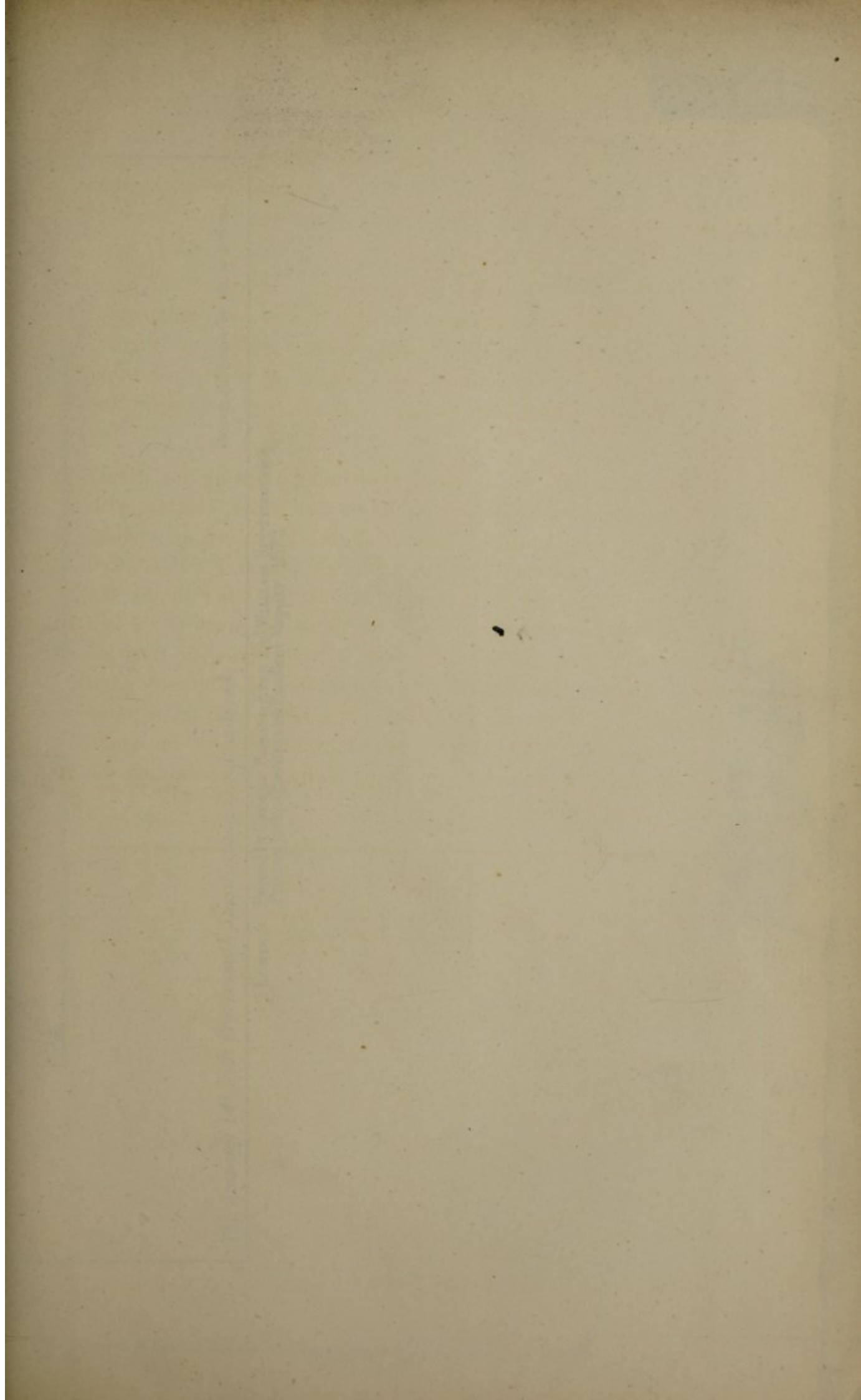
Figure 1 of the annexed Drawing represents one example of the mode of applying the improved portable self-acting fan to an ornamental jar, which serves to contain the mechanism shown separately in Figures 2 and 3, said jar being surmounted by a basket of flowers or other ornament used to conceal the attachment of the fan with the mechanism.

In Figure 2, A represents a barrel containing a spring for giving 10 motion to the mechanism and carrying a toothed wheel, gearing with pinion B and acting by means of wheels D, E, F, G, on an endless screw Q; H, crank arm fixed on the spindle of pinion F; H<sup>1</sup>, forked lever connected at one end to the crank and at the other to the fan holder H<sup>11</sup>, which is counterbalanced and oscillates on pivot O. I is a 15 fly wheel on spindle Q of endless screw, and J a regulator or flyer on same spindle. The winding gear consists of a ratchet M, Figure 3, fixed on barrel spindle; P, P<sup>1</sup>, spring and pawl; N, ratchet fixed on squared spindle S and gearing with ratchet M; T, bridge piece in which wheel N is mounted; R, studs for connecting plates Z, Z, containing the 20 mechanism, Figures 2 and 3.

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LONDON:

Printed by GEORGE EDWARD EYRE and WILLIAM SPOTTISWOODE,  
Printers to the Queen's most Excellent Majesty. 1872.



1881

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CHICAGO, ILL., U.S.A.

Figure 1 of the diagram shows the general arrangement of the system. It consists of a main body of water, a smaller body of water, and a series of pipes connecting them. The main body of water is labeled 'A' and the smaller body is labeled 'B'. The pipes are labeled 'C', 'D', 'E', 'F', 'G', 'H', 'I', 'J', 'K', 'L', 'M', 'N', 'O', 'P', 'Q', 'R', 'S', 'T', 'U', 'V', 'W', 'X', 'Y', 'Z'. The diagram is a schematic representation of a hydraulic system.

Figure 2 of the diagram shows a cross-section of the system. It illustrates the internal components and the flow of water. The main body of water is labeled 'A' and the smaller body is labeled 'B'. The pipes are labeled 'C', 'D', 'E', 'F', 'G', 'H', 'I', 'J', 'K', 'L', 'M', 'N', 'O', 'P', 'Q', 'R', 'S', 'T', 'U', 'V', 'W', 'X', 'Y', 'Z'. The diagram is a detailed cross-sectional view of the system.

Figure 3 of the diagram shows a side view of the system. It illustrates the external components and the flow of water. The main body of water is labeled 'A' and the smaller body is labeled 'B'. The pipes are labeled 'C', 'D', 'E', 'F', 'G', 'H', 'I', 'J', 'K', 'L', 'M', 'N', 'O', 'P', 'Q', 'R', 'S', 'T', 'U', 'V', 'W', 'X', 'Y', 'Z'. The diagram is a side view of the system.

FIG. 1.

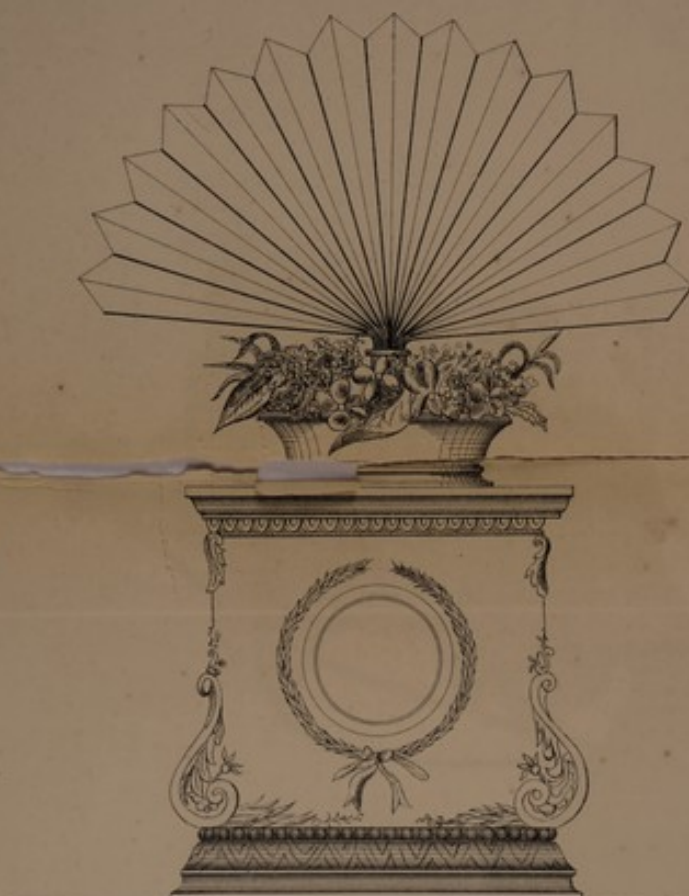


FIG. 2.

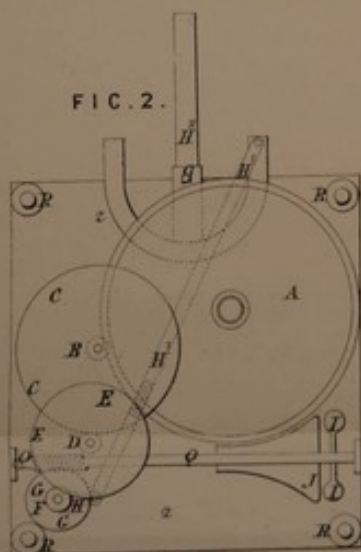
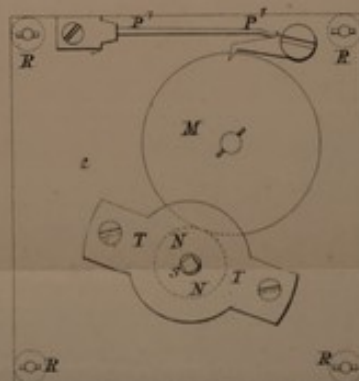


FIG. 3.



*The drawing left with Provisional Specification is not colored*

Drawn on Stone by Malby & Sons.

