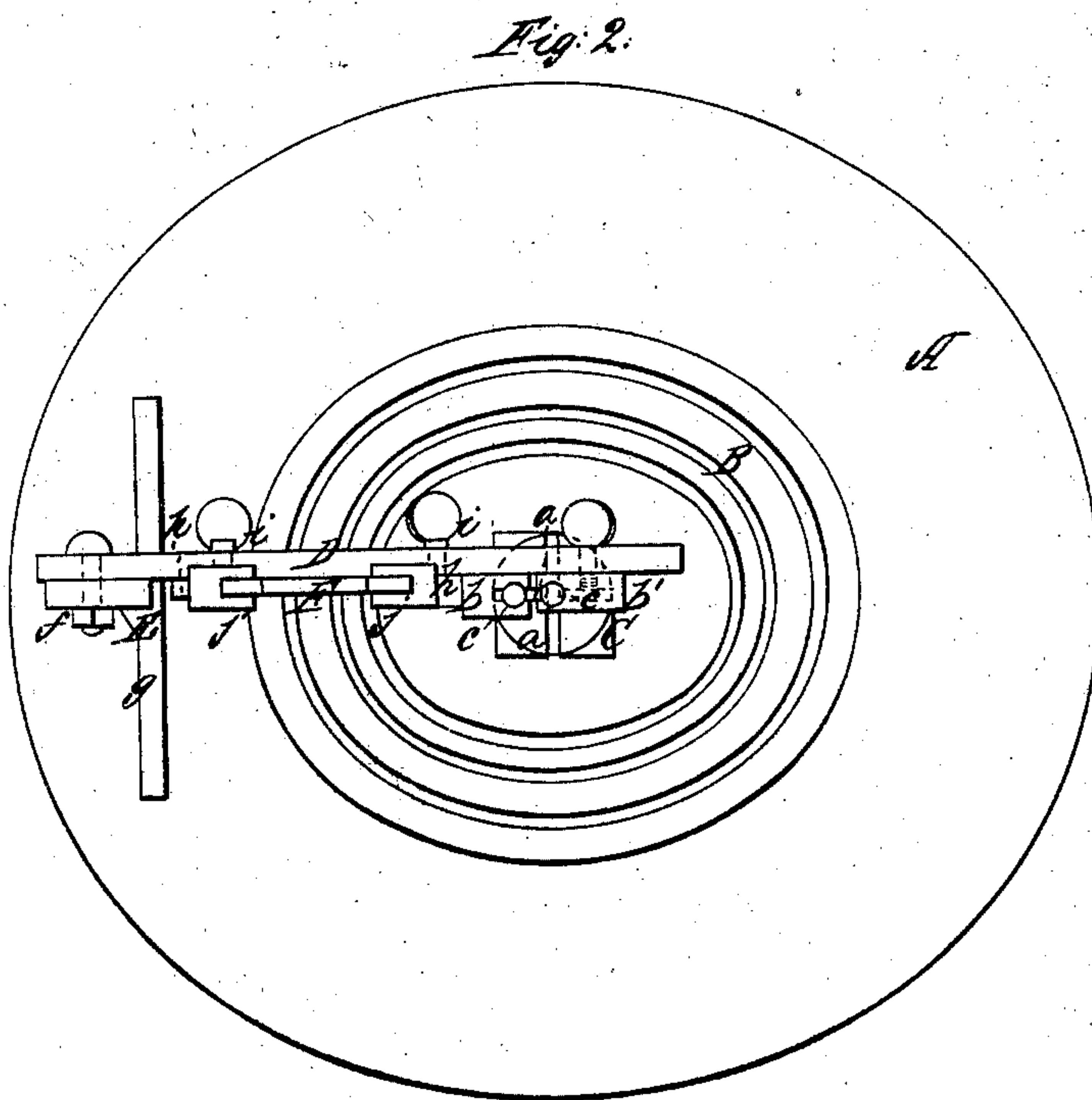
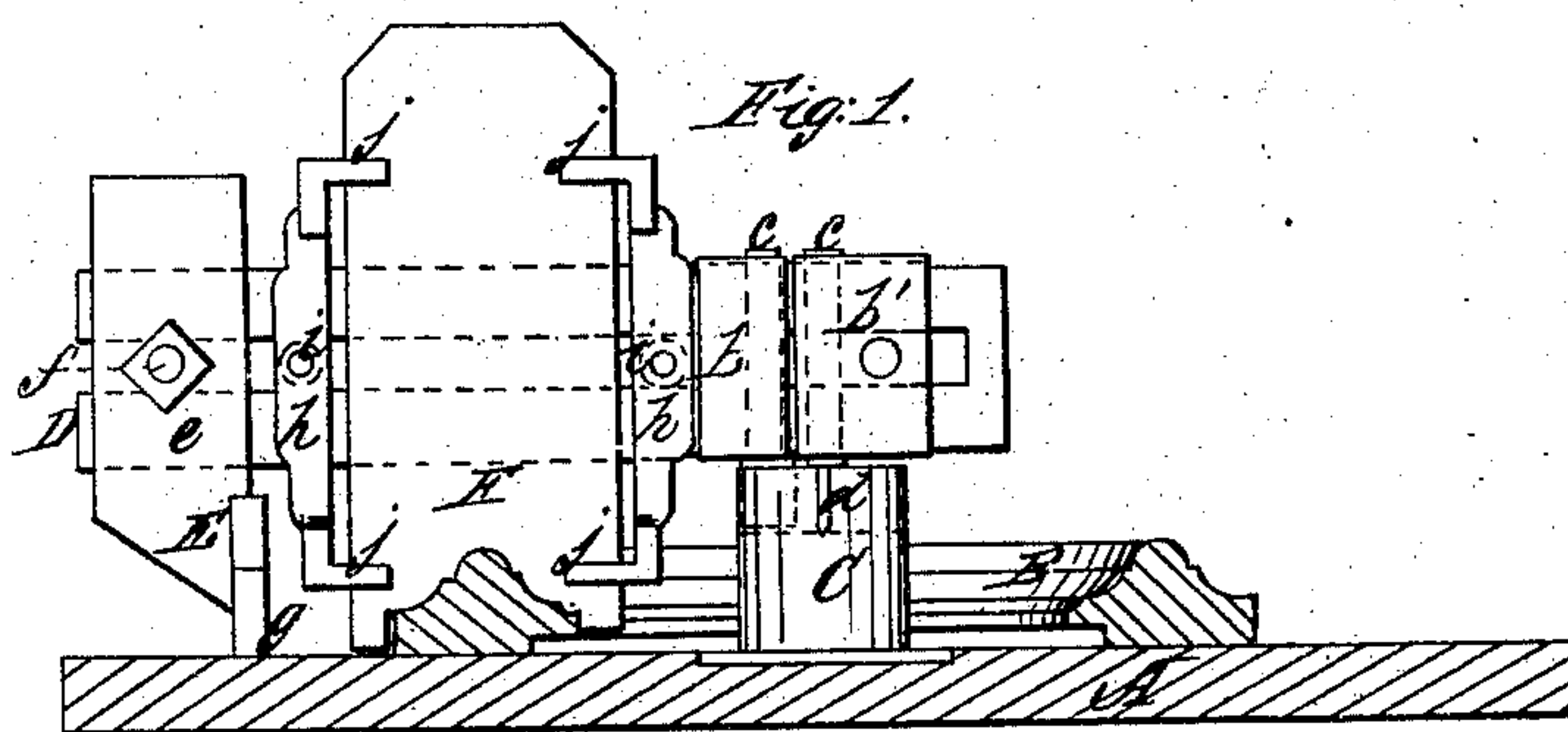


*R. I. Marcher*

## *Enameling Machine.*

N<sup>o</sup> 21,430.

*Patented Sep 7 1858.*





# UNITED STATES PATENT OFFICE.

ROBERT I. MARCHER, OF NEW YORK, N. Y.

## APPARATUS FOR PREPARING ELLIPTICAL FRAMES FOR GILDING.

Specification of Letters Patent No. 21,430, dated September 7, 1858.

*To all whom it may concern:*

Be it known that I, ROBERT I. MARCHER, of the city, county, and State of New York, have invented a new and Improved Machine  
5 for Preparing Wooden Oval Frames for Gilding; and I do hereby declare that the following is a full, clear, and exact description of the same, reference being had to the annexed drawings, making a part of this  
10 specification, in which—

Figure 1, is a side view of my invention, the base to which it is attached and also the work thereon being bisected vertically through the center. Fig. 2, is a plan or top  
15 view of ditto.

Similar letters of reference indicate corresponding parts in the two figures.

This invention consists in a peculiar arrangement and adaptation of the well  
20 known trammel for the purpose of giving a positive or arbitrary elliptical movement to a tool, said movement corresponding with the shape of the frame to be operated upon, so that the tool may traverse over the frame  
25 and properly distribute the compound or substance thereon which receives the gold leaf.

To enable those skilled in the art to fully understand and construct my invention I  
30 will proceed to describe it.

A, represents a platform or base on which the oval frame B, to be operated upon is secured, and C, is a vertical metal bar secured to the platform or base A, and having  
35 two slots or grooves *a, a*, formed in its upper surface, said slots or grooves crossing each other at right angles as shown clearly in Fig. 2.

B, is a horizontal metal bar which is  
40 slotted longitudinally nearly its whole length and has two blocks *b, b'*, secured to its inner end, in which arbors *c*, are fitted loosely, one in each. The lower end of each arbor *c*, has a flat portion *d*, formed on it,  
45 and these portions *d*, are fitted and work in the grooves *a, a*. The outer end of the bar D, is supported by a foot E, said foot being on the platform or base A. This foot is formed of a vertical bar *e*, which is secured to the bar D, by a screw bolt *f*, said  
50 bar *e*, having a cross bar *g*, formed at its lower end for a base. To the bar D, two guides *h, h*, are attached by set screws *i*. These guides are vertical bars having horizontal portions *j*, at their upper and lower

ends, the portions *j*, being notched or recessed to receive the edges or sides of a metal plate F, the lower end of which is formed to correspond inversely with the pattern of the frame to be operated upon. 60  
The plate or tool F, is fitted loosely in or between the guides *h, h*.

The bar D, is slotted longitudinally so that the several parts attached thereto may be adjusted as circumstances may require, 65  
to wit, the plate or tool F, by adjusting the guides *h, h*, and the rest or foot piece E, and the block *b'*, by relaxing their screw bolts and shoving them either way on the bar to the desired spots and then screwing  
70 up the nuts of the bolts.

The frame B, is adjusted on the platform or base A, so that the upright bar C, will be precisely at its center. The frame B, is then covered as usual with the material 75  
(glue and whiting) used for the ground or body to receive the gold leaf, and this material fills the pores of the wood. The bar D, is rotated by hand or otherwise and the tool F, takes off all of the superfluous material and smooths in a perfect manner that  
80 which remains on the frame. The frame B, has the usual or any proper number of coats of whiting applied to it, and the tool or plate F, is allowed to rise to accommodate the increasing layer. The smoothness and general perfectness of the work is due to the independent or arbitrary elliptical movement of the tool F, which corresponds  
85 precisely with the form of the frame. The work consequently can be performed equally as well and as rapidly as the usual reciprocating tool prepares the straight moldings for rectangular frames. 90

Frames varying in size may be operated 95  
upon by the same implement. The tool F, foot E, and blocks *b'*, being adjustable in order to permit this.

I am aware that a bar provided with pins and fitted in slots or recesses crossing each 100  
other at right angles forms an old and well known implement termed a trammel for drawing ovals and such implement has been arranged and adapted in various ways, for various purposes, but I am not aware that 105  
the implement above named has been arranged as herein shown and used in connection with a foot piece or rest. I do not claim therefore broadly irrespective of construction and arrangement, a trammel, that 110

is to say, a bar provided with pins which are fitted in cross slots or grooves; but,

I claim as new and desire to secure by Letters Patent,

- 5 Providing the bar D, with a foot or support E, and a sliding plate or tool F, when the bar D, is arranged relatively with its

upright grooved or slotted bar C, and the frame B, substantially as and for the purpose herein shown and described.

ROBT. I. MARCHER.

Witnesses:

A. R. CAIFT,

W. HAUFF.