

(No Model.)

A. G. BEATER.

INKING AND CLEANING APPARATUS FOR DIE STAMPING.

No. 504,465.

Patented Sept. 5, 1893.

FIG. 1

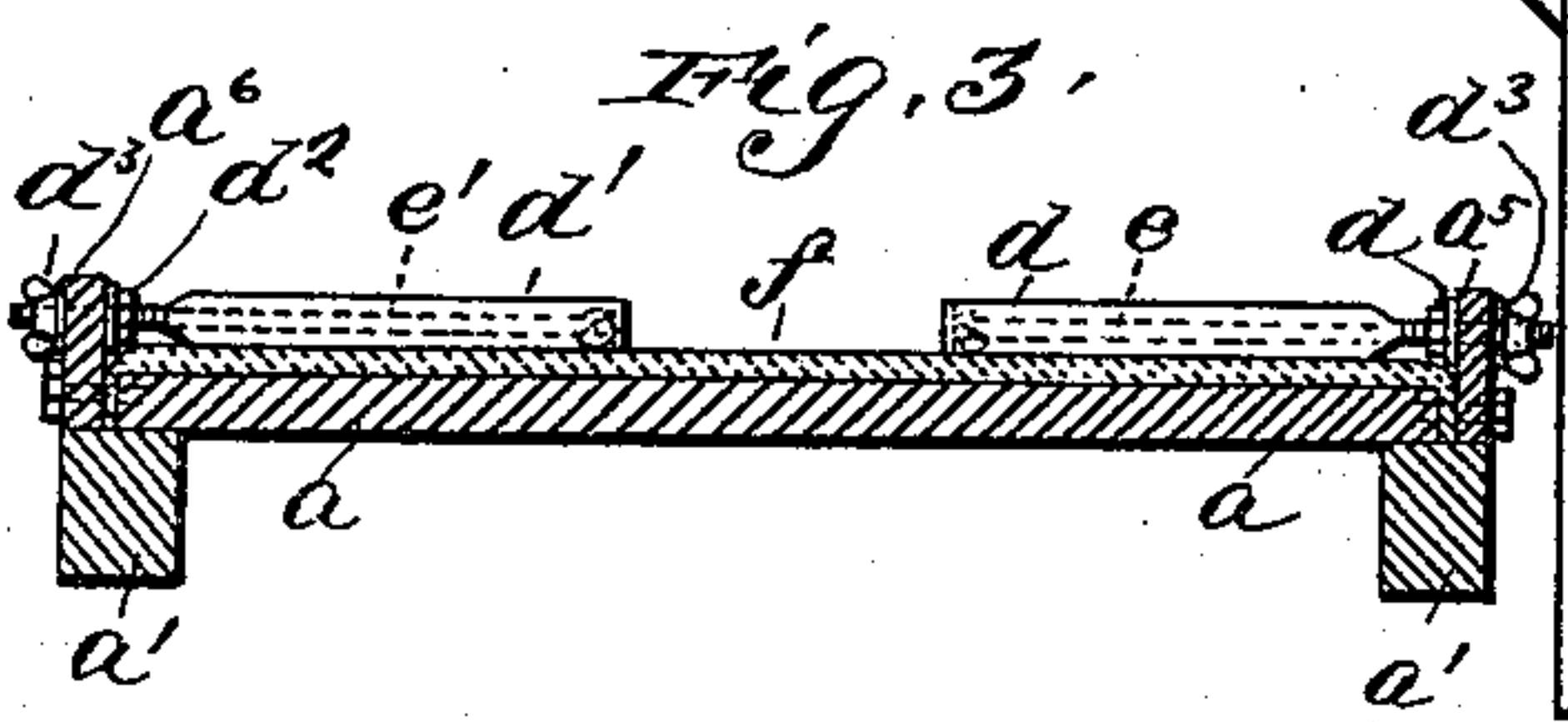
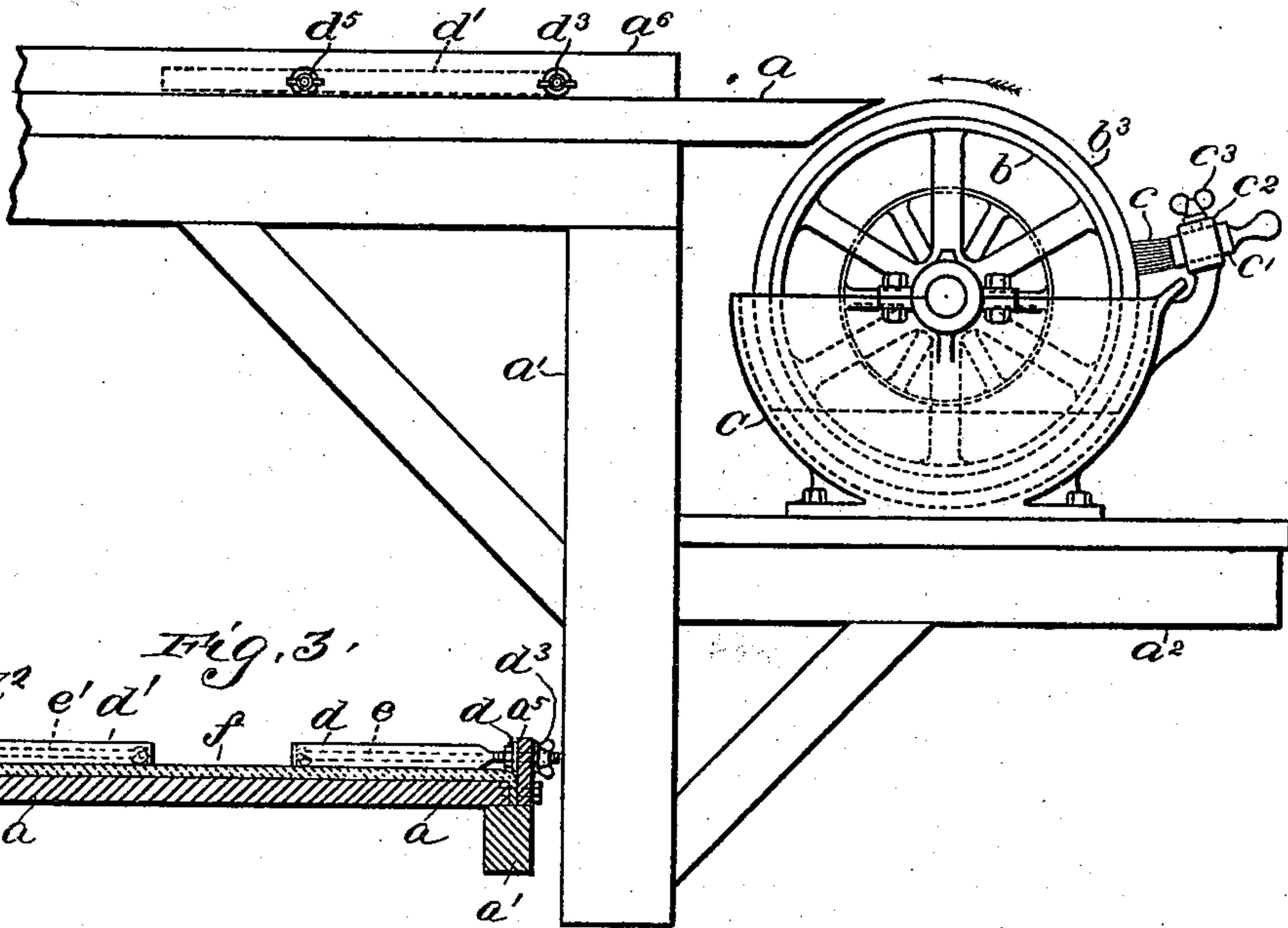
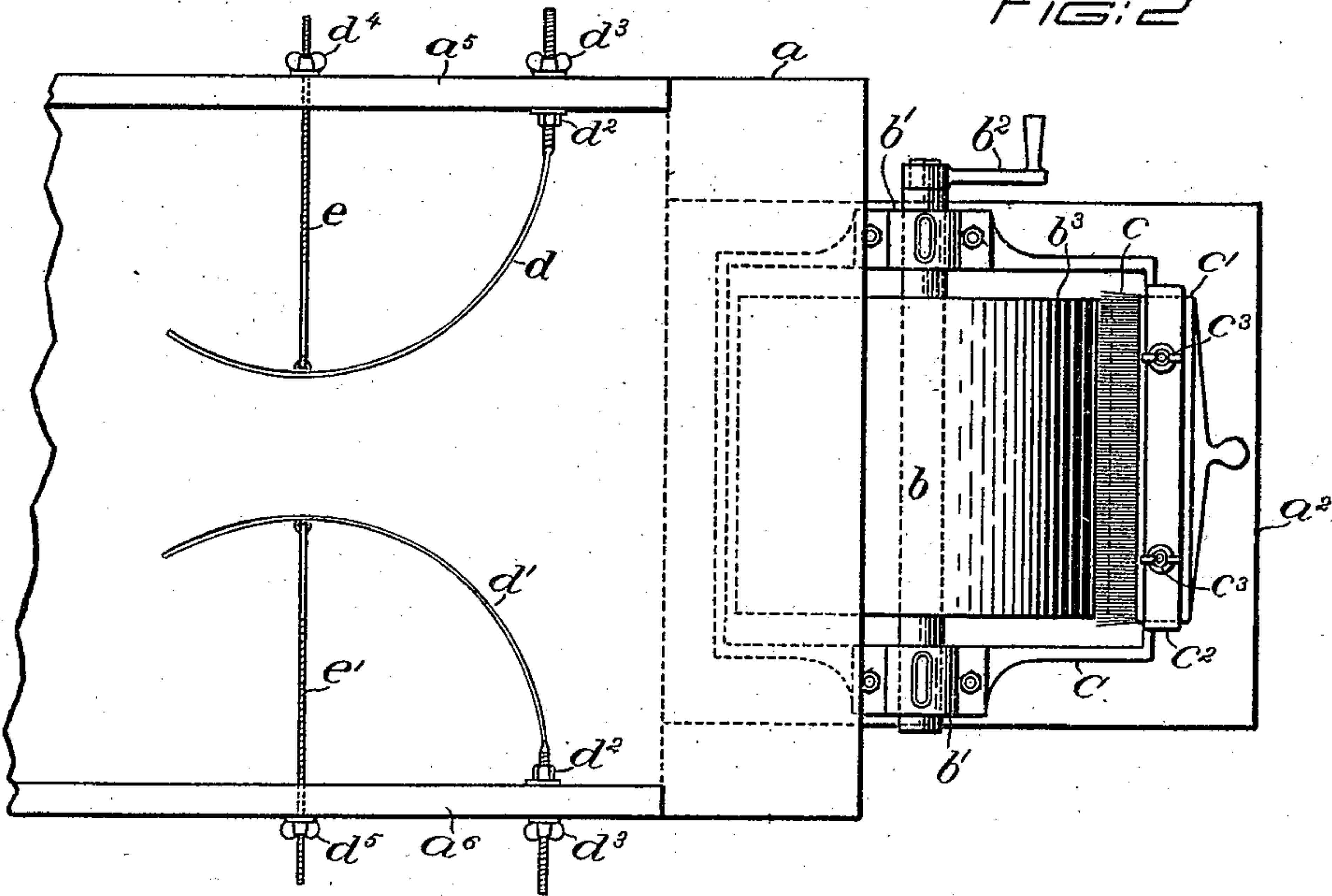


FIG. 2



WITNESSES:

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INVENTOR:

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ATT'Y.



# UNITED STATES PATENT OFFICE.

ALFRED GEORGE BEATER, OF PHILADELPHIA, PENNSYLVANIA.

## INKING AND CLEANING APPARATUS FOR DIE-STAMPING.

SPECIFICATION forming part of Letters Patent No. 504,465, dated September 5, 1893.

Application filed March 16, 1893. Serial No. 466,386. (No model.)

*To all whom it may concern:*

Be it known that I, ALFRED GEORGE BEATER, a subject of the Queen of Great Britain, but who have declared my intention of becoming a citizen of the United States, residing at the city of Philadelphia, in the county of Philadelphia and State of Pennsylvania, have invented certain new and useful Improvements in Inking and Cleaning Apparatus for Die-Stamping, of which the following is a specification.

The principal objects of my present invention are first, to provide a simple, durable, efficient and comparatively inexpensive appliance for preparing dies for use in stamping and engraving by inking the same and then removing superfluous matter therefrom; and second, to provide an inking and cleaning device having a cleaning table or bench provided with adjustable means for guiding the die over the same.

My invention consists of the improvements in inking and cleaning appliances for die-stamping hereinafter described and claimed.

The nature, general features and scope of my invention will be more fully understood from the following description taken in connection with the accompanying drawings forming part hereof; and in which—

Figure 1, is a side elevation view of an inking and cleaning appliance for die-stamping embodying features of my invention and showing a rotatable inking-wheel. Fig. 2, is a top or plan view of the same showing a hand-crank for rotating the inking-wheel, and Fig. 3, is a transverse sectional view of the table or bench provided with a padded die cleaning surface or material and also showing the position of the adjustable guides in connection with the padded surface of the table or bench.

In the drawings *a*, is a bench or table supported by means of legs *a'*, and having its upper surface padded with paper or other suitable material *f* and adapted to remove superfluous ink from the surface of dies, such as are ordinarily employed in die-stamping.

*b*, is an inking-wheel journaled in bearings *b'*, mounted in the side walls of a tank or vat *C*, carried by brackets *a''*, to which are secured the legs *a'*. This inking-wheel *b*, may be ro-

tated by drawing the die over the same or by means of a hand-crank *b''*, as illustrated in Fig. 2.

The face of the inking-wheel *b*, is provided with a covering or rim *b''*, of caoutchouc, celluloid or other preferred substance or material, susceptible of applying coloring matter to an engraved die. The upper peripheral portion of the covered inking-wheel *b*, is disposed in alignment with the surface of the padded table or bench *a*, in order to permit of a die being caused to travel from the surface of the inking-wheel *b*, onto the surface of the padded table or bench.

*c*, is a brush, knife or scraper adapted to remove superfluous material from the jacket or covering *b''*. The shank *c'*, of this brush, knife or scraper *c*, is afforded a range of play in a suitable bracket *c''*, in order to permit of the adjustment of the brush, knife or scraper *c*, in respect to the covering or rim *b''*.

*c''*, are binding-screws for clamping the shank *c'*, of the knife, brush or scraper to place in the bracket *c''*, after the brush, knife or scraper has been properly adjusted to proper position, with respect to the wheel *b*.

*d*, and *d'*, are guides which may, if preferred, be applied to the surface of the padded table or bench *a*, in order to direct the die in its course over the table during the cleaning thereof. In the present instance these guides comprise strips of spring metal detachably secured to the side or edge rails *a''* and *a'''*, of the table or bench *a*, by means of jam nuts *d''*, and thumb-nuts *d'''*.

*e* and *e'*, are rods connected respectively with the guides *d* and *d'*, and having their extremities provided with thumb-nuts *d''* and *d'''*, whereby the guides *d* and *d'*, may be adjusted to the required position to accommodate dies of different dimensions and also to direct the dies across different portions of the surface of the bench or table in a manner to be hereinafter explained.

The mode of operation of the hereinabove described inking and cleaning appliance, is as follows:—The inking-wheel is rotated in the direction indicated by the arrow in Fig. 1, with the following results of first, the rim or covering *b''*, receiving a supply of coloring matter in passing through the tank or vat; and second, of the brush, knife or scraper *c*, auto-



matically removing the superfluous coloring  
 matter from off the rim or covering  $b^3$ , of the  
 inking-wheel  $b$ . A die is then applied to the  
 peripheral surface of the wheel  $b$ , after hav-  
 5 ing received its supply of coloring matter  
 from the vat or tank  $C$ , and is then passed  
 across the top of the padded bench or table  $a$   
 with the result that all coloring matter, ex-  
 cept that adhering in the engraved portion of  
 10 the die is removed, whereupon the same may  
 be mounted in a press for use.

When the guides  $d$  and  $d'$ , are employed  
 they serve to direct the line of travel of the  
 dies across the table or bench and they also  
 15 may be employed to guide the dies across  
 such portion of the table or bench which has  
 not been soiled by coloring matter deposited  
 thereon. Whenever a portion of the table or  
 bench between adjacent extremities of the  
 20 guides has become soiled, the guides may be  
 shifted by means of the thumb-nuts  $d^3$ ,  $d^4$   
 and  $d^5$ , and rods  $e$  and  $e'$ , into a position for  
 directing the dies in another course to that  
 of the soiled portion of the table or bench  $a$   
 25 but within the limit of the length of the ink-  
 ing roll  $b$ .

It will be manifestly obvious to those skilled  
 in the art to which my invention appertains  
 that modifications may be made in the details  
 30 and that the guides  $d$  and  $d'$ , may be dis-  
 pensed with, hence I do not limit myself to  
 the precise construction and arrangement of  
 the parts as mentioned.

Having thus described the nature and ob-

jects of my invention, what I claim as new, 35  
 and desire to secure by Letters Patent, is—

1. An inking and cleaning appliance for  
 die-stamping, comprising a bench or table  
 provided with a die cleaning material, a ro-  
 tatable inking-wheel in line with the surface 40  
 of the bench or table and dipping into a vat  
 or tank, a knife, brush or scraper for remov-  
 ing superfluous material from said wheel, and  
 adjustable means applied to said table or  
 bench and adapted to guide the die in its 45  
 travel over the table or bench, substantially  
 as and for the purposes set forth.

2. An inking and cleaning appliance for  
 die-stamping provided with a table having  
 an applied die cleaning material or surface, a 50  
 rotatable inking-wheel, and adjustable guides  
 connected with said table, substantially as  
 and for the purposes set forth.

3. In an inking and cleaning appliance for  
 die-stamping, a table or bench provided with 55  
 die cleaning material, guides detachably con-  
 nected with said table, and means for adjust-  
 ing said guides in connection with the table  
 or bench, substantially as and for the pur-  
 poses set forth. 60

In testimony whereof I have hereunto set  
 my signature in the presence of two subscrib-  
 ing witnesses.

ALFRED GEORGE BEATER.

Witnesses:

THOMAS M. SMITH,

RICHARD C. MAXWELL.