

No. 694,136.

Patented Feb. 25, 1902.

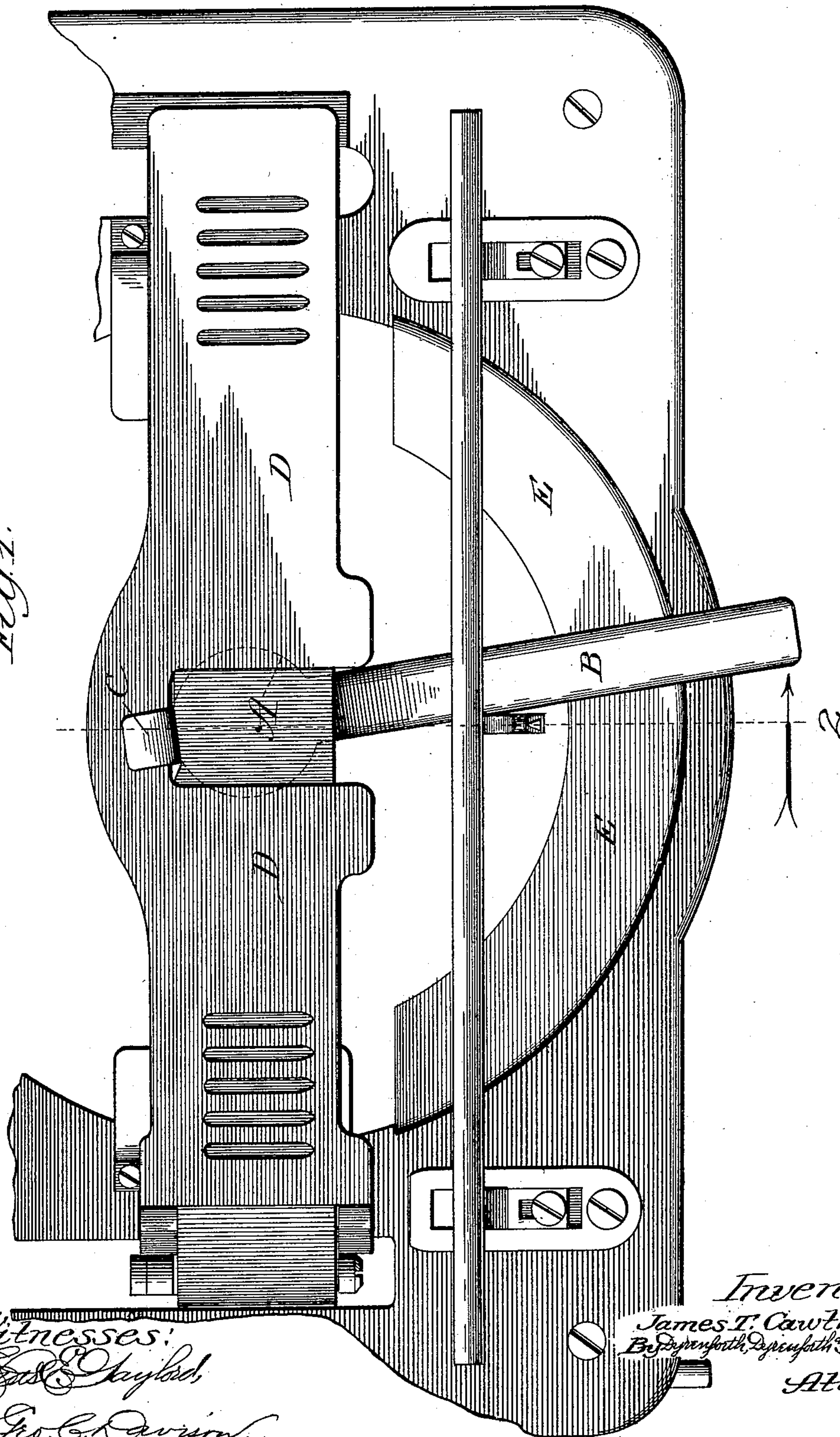
J. T. CAWTHORN.  
TYPE CLEANING DEVICE.

(Application filed Oct. 4, 1901.)

(No Model.)

2 Sheets—Sheet 1.

*Fig. 1.*



*Witnesses:*  
*Geo. C. Davis,*  
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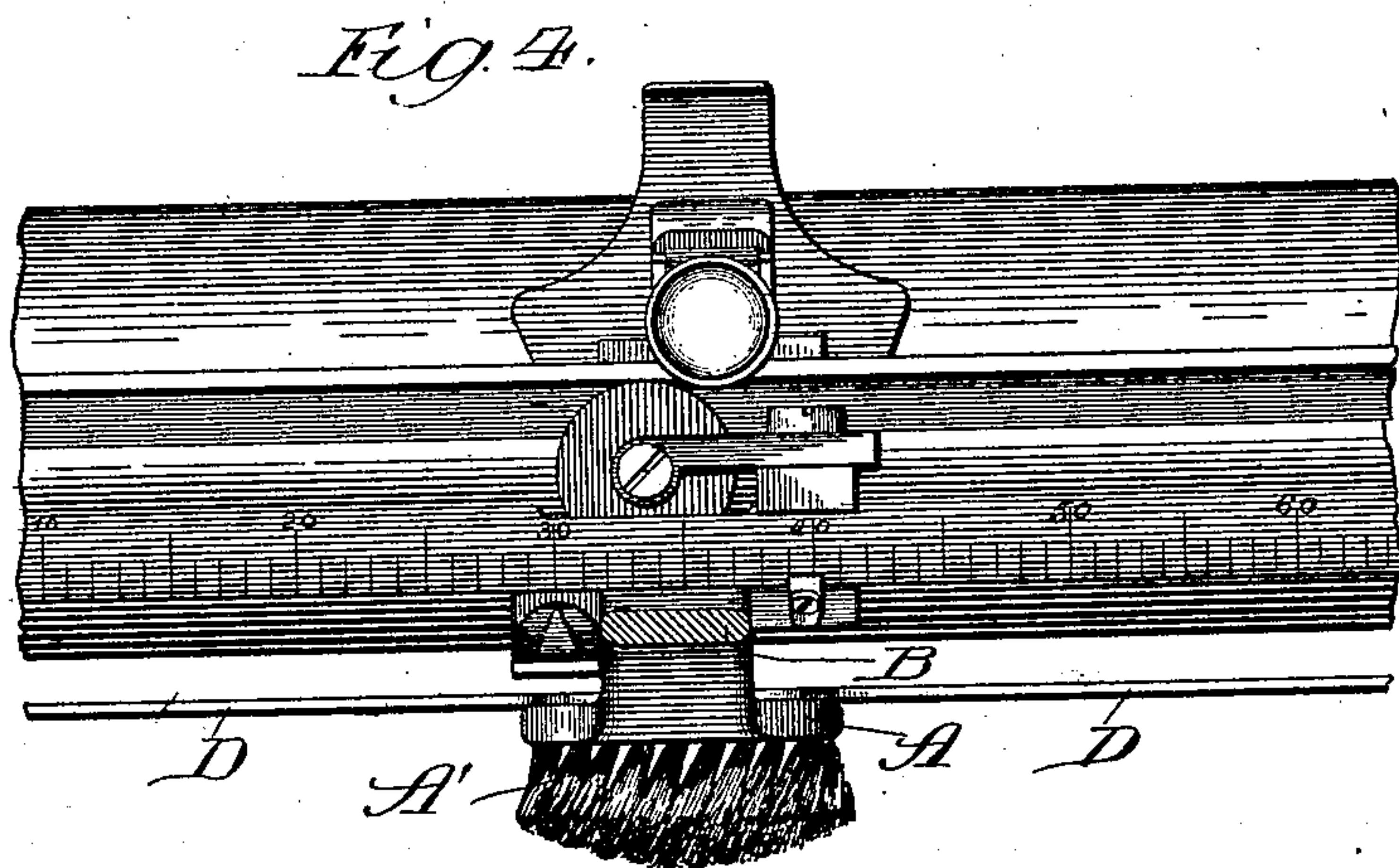
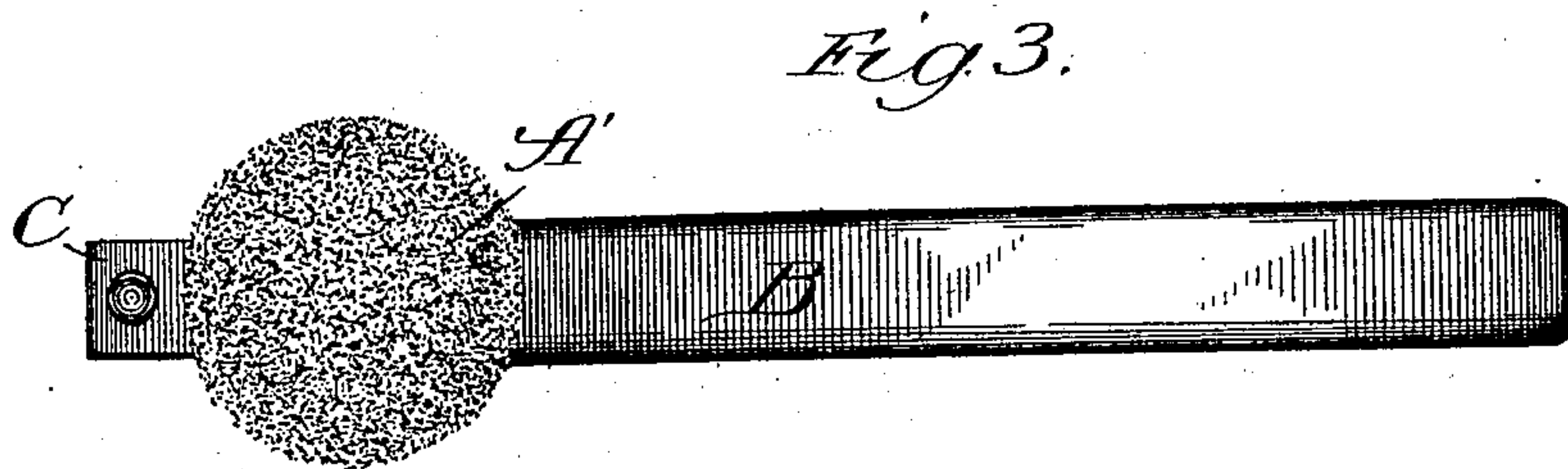
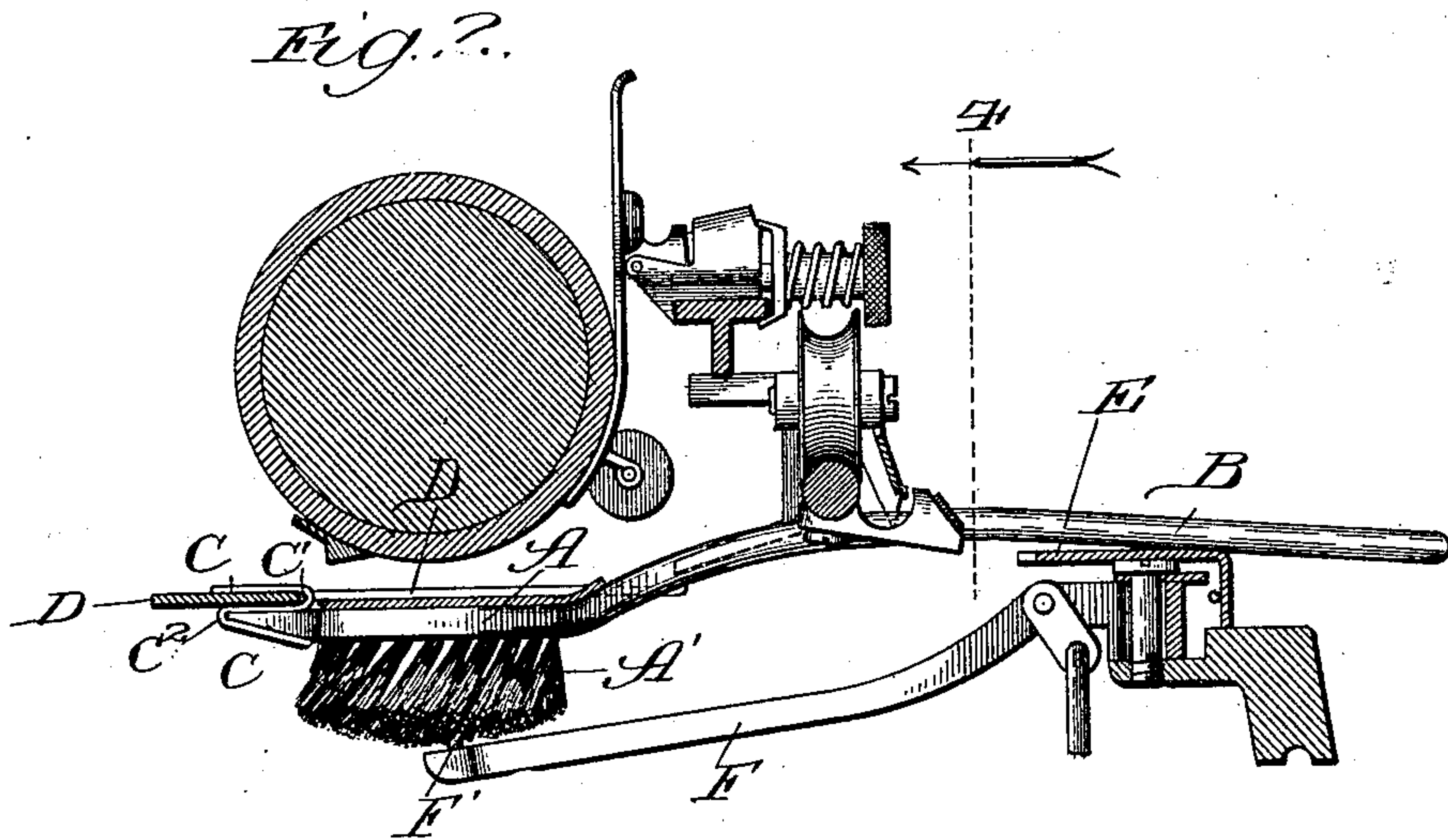
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J. T. CAWTHORN.  
TYPE CLEANING DEVICE.

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(No Model.)

2 Sheets—Sheet 2.



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# UNITED STATES PATENT OFFICE.

JAMES T. CAWTHORN, OF CHICAGO, ILLINOIS, ASSIGNOR OF ONE-HALF TO  
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## TYPE-CLEANING DEVICE.

SPECIFICATION forming part of Letters Patent No. 694,136, dated February 25, 1902.

Application filed October 4, 1901. Serial No. 77,521. (No model.)

*To all whom it may concern:*

Be it known that I, JAMES T. CAWTHORN, a citizen of the United States, residing at Chicago, in the county of Cook and State of Illinois, have invented a new and useful Improvement in Type-Cleaning Devices, of which the following is a specification.

My invention relates to improvements in type-cleaning devices, and has special reference to that class which are applicable to type-writing machines.

My object is to provide a type-cleaning device which is simple of construction, easily adjusted, and efficient in operation.

Heretofore the cleaning of type has been effected usually by means of a hand-brush or brushing mechanisms which have been of a construction so complicated that a needless amount of time and energy were required to effectively clean the type. In my invention is found a quick and efficient means for thoroughly cleaning the type, whereby the hands of the operator do not come in contact with the dirt on the machine, as in hand-brush cleaners, and at the same time does away with the slow operation of both hand-brush cleaners and those cleaning devices, as hitherto provided, which are attached to the machine.

The preferred form of my device is shown in the accompanying drawings, in which—

Figure 1 is a broken plan view of a Remington type-writing machine, showing my improved type-cleaning device in position thereon; Fig. 2, a broken section on line 2 of Fig. 1, showing my improved type-cleaner in side elevation and the manner of holding it in place; Fig. 3, a bottom plan view of the device, and Fig. 4 a broken section on line 4 in Fig. 2.

A represents the head or brush portion of the type-cleaning device, from which extends a handle or stem B. At the opposite side of the head A is rigidly attached a clip C. The head A is provided with bristles A', which may extend obliquely from the under surface of the head. The handle B may be of any convenient form. The clip C in its preferred form approaches the shape of the letter S, having an outwardly-turned recess or socket C', which affords a means of attachment, in

the present case, to the ribbon guide-bar D of the machine, and the recess C', which provides a means whereby the clip is secured to the head A.

F represents one of the type-levers, carrying a type F', which is shown raised into contact with the bristles.

In using the device the clip C is passed at its socket C' over the edge of the ribbon-guide D, which it clamps to hold the head portion rigid, and the handle B rests upon the frame E beneath the carriage-shifting rail, as shown, which position causes the bristles A' to be in the path of the moving type, causing the type when struck up by the type-levers to strike against the bristles. When the bristle-clusters A' are at oblique angles to the surface of the head A, they will yield bodily upward under the force of the blows from the type and return to their oblique positions. They will thus operate effectively to clean the type without danger of the bristles separating or becoming squashed down, as would happen in time if the bristles were struck on end in their direct longitudinal line.

Although my improved device is intended more especially for use in place of the usual hand-brushes as a temporary attachment to the type-writing machine, it may when removed from engagement with the ribbon guide-bar be used as a hand-brush. The handle B is curvilinear to adapt it to the hand and render the device convenient for use as a hand-brush. It frequently happens that through neglect or otherwise the type becomes caked with ink or the like, which the mere striking of the type against the bristles would not dislodge.

One of the desirable characteristics of my device is that it may be used as a machine attachment in the manner described and also as a hand-brush when it is necessary to clean the type by rubbing the brush repeatedly across the same.

Having described my invention, what I claim as new, and desire to secure by Letters Patent, is—

1. In a type-cleaning device, the combination of a head provided on its under side with type-cleaning bristles, a clamping-clip projecting from one side of said head adapted to

engage with the ribbon guide-bar of a type-writing machine, at one side of the path of the type when struck up, and a handle extending from the opposite side of said head  
5 and adapted to pass beneath the carriage-shifting rail and rest on the frame of said machine, substantially as set forth.

2. In a type-cleaning device, the combination of a head provided with type-cleaning  
10 bristles, extending obliquely with relation to the path of the type when struck up, a clip

on the head to slip over and engage with a stationary part of a type-writing machine at one side of the path of the type when struck up, and a handle extending from the opposite  
15 side of said head to rest on the frame of said machine, substantially as set forth.

JAMES T. CAWTHORN.

In presence of—

ALBERT D. BACCI,  
WILLIAM B. DAVIES.