

(No Model.)

C. H. SHRADER.

MECHANISM FOR LETTERING BOOK COVERS.

No. 354,253.

Patented Dec. 14, 1886.

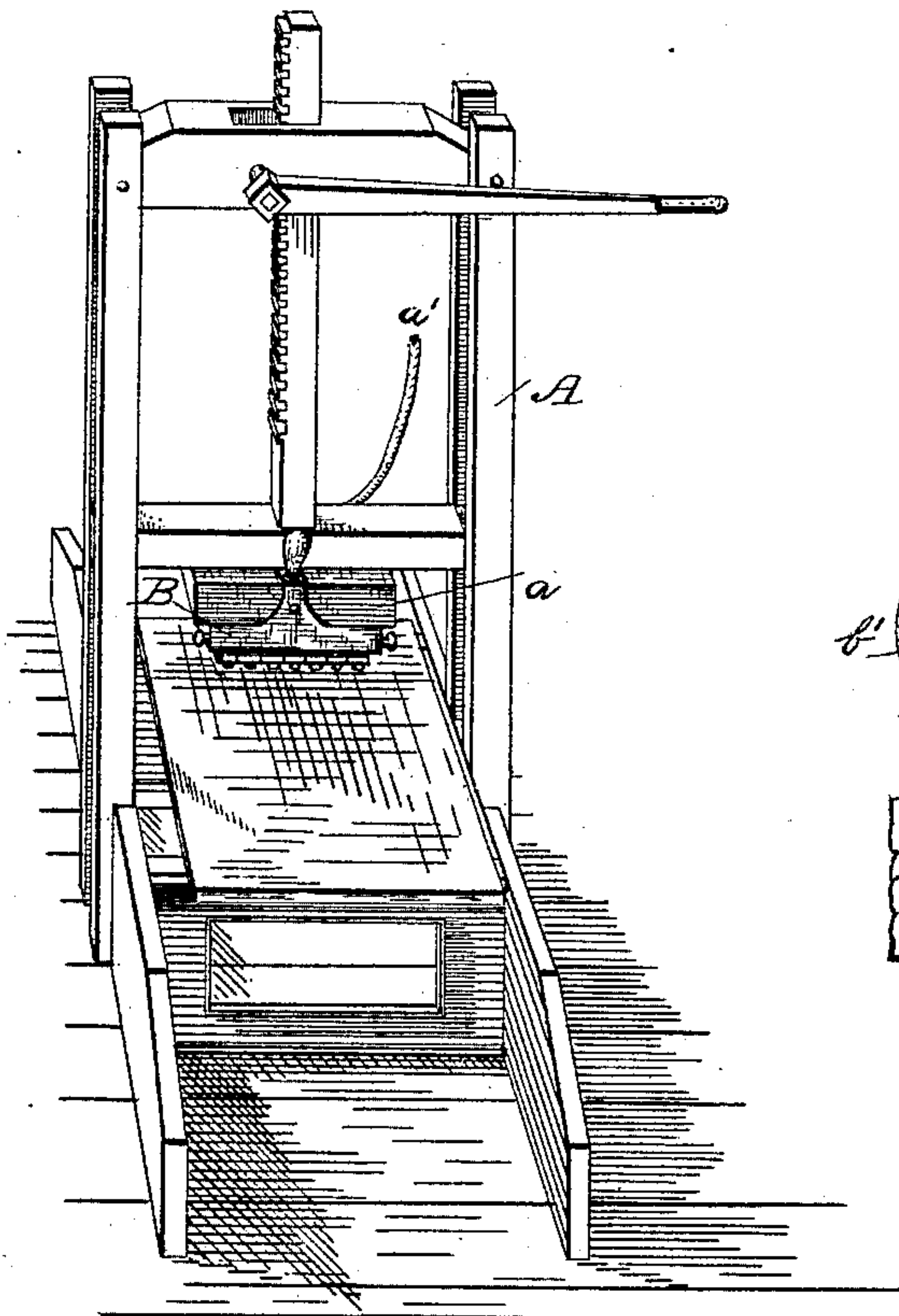


Fig. 1

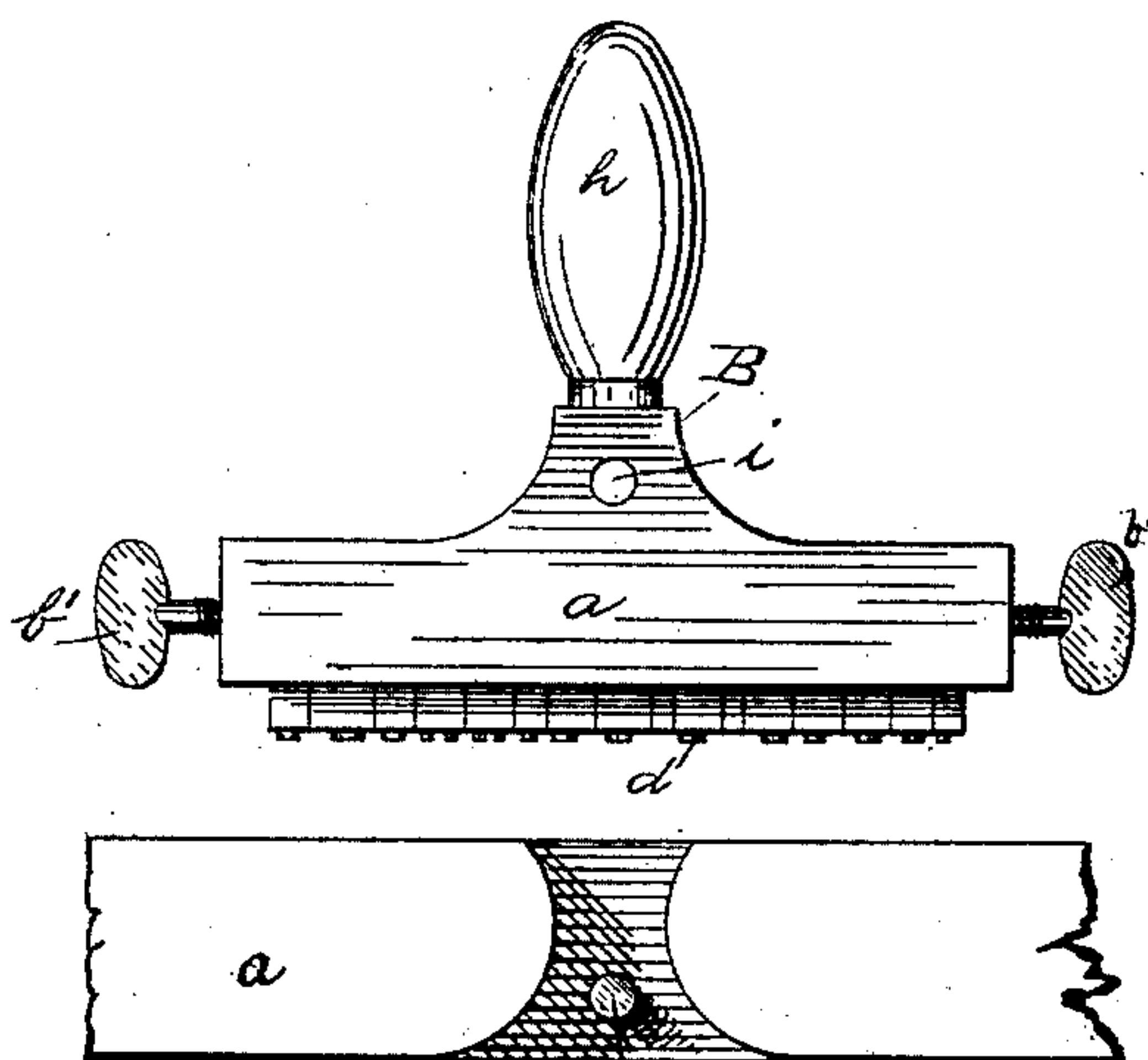


Fig. 2

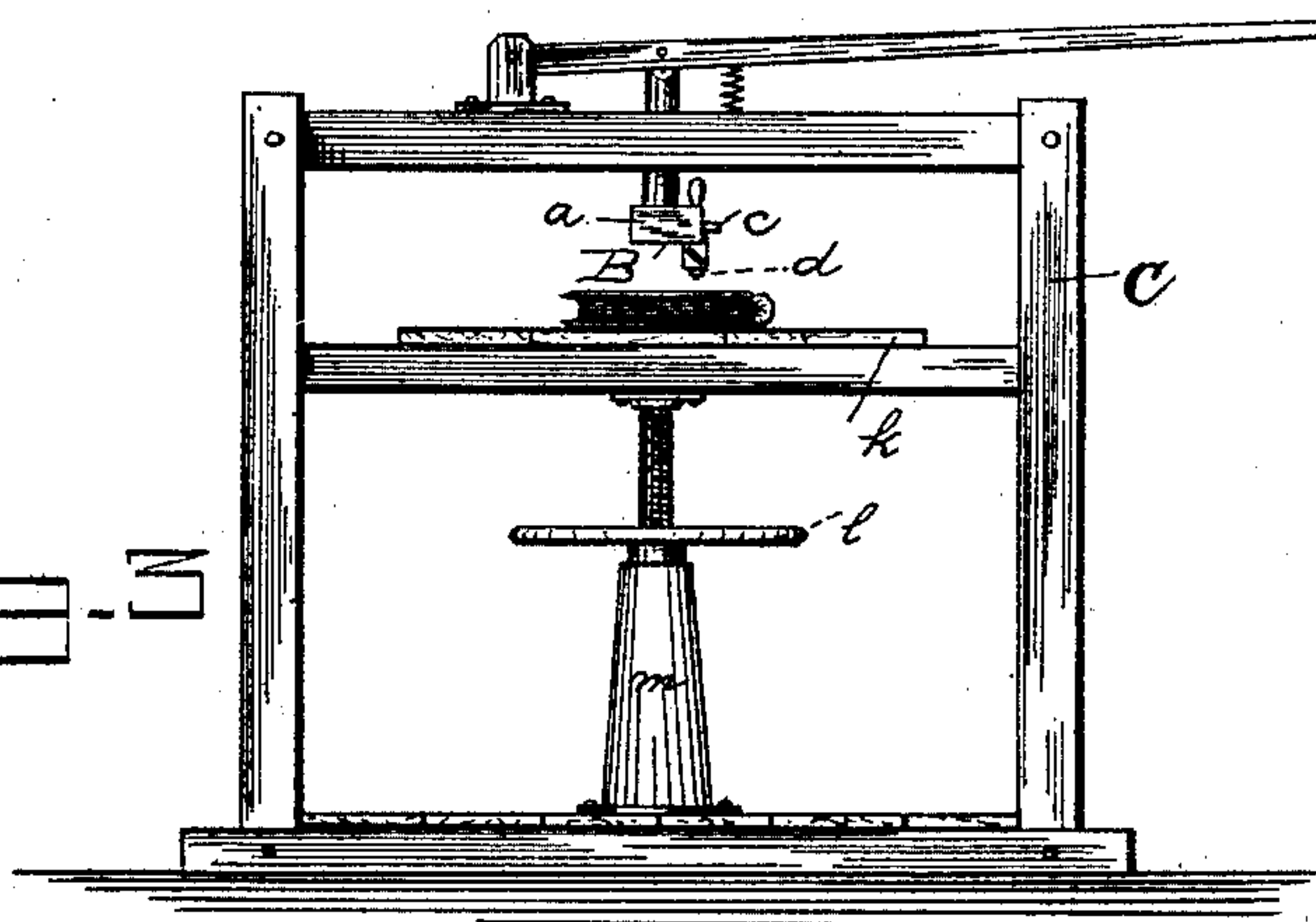


Fig. 3

WITNESSES\_\_

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# UNITED STATES PATENT OFFICE.

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## MECHANISM FOR LETTERING BOOK-COVERS.

SPECIFICATION forming part of Letters Patent No. 354,253, dated December 14, 1886.

Application filed April 13, 1886. Serial No. 193,731. (No model.)

*To all whom it may concern:*

Be it known that I, CHARLES H. SHRADER, a citizen of the United States, residing at Covington, in the county of Kenton and State of Kentucky, have invented certain new and useful Improvements in Mechanisms for Lettering the Covers of Books; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same.

My invention relates to improved mechanism for lettering the covers of books; and it has for its object to provide means whereby a book-binder's hand-pallet can be conveniently and expeditiously removably attached to a power-machine, in order that sufficient power may be applied to the pallet to give the required impression of the type in the article to be lettered.

The invention consists in the novel features of construction and arrangement of parts hereinafter described, and clearly pointed out in the claim.

In using a pallet by hand the back and side of the book-cover to be lettered must be curved. If the side of the cover is to be lettered, it is bent over a rounded block, and then one end of the pallet is set upon it and the implement rocked around it without changing its position. The reason for this operation is that a man cannot apply sufficient power to give an impression on the whole line at once, and this expedient is resorted to for the purpose of applying the pressure to a small surface at a time. As the operative has a segment of a circle to work upon, he is apt to get the line of lettering crooked, and, furthermore, as he has frequently to go over the lettering several times, great care and considerable time are required to bring the succeeding impressions directly in the first impression. It is impossible to properly letter cloth-covered books by hand, because of the hardness of the material and the deep impression required.

A common embossing-machine, whose head is adapted to receive several lines of type and to be heated by gas or steam, answers very well for a shop having a great number of books to letter alike; but such machine cannot be advantageously used in a shop running on job-

work, where frequent changes of the type are required, because, aside from other objections, the whole head has to be heated, even though but a single line of type is used, and then it must be cooled every time the type are changed.

By my invention I avoid all of the above-noted objections, and at the same time render available the advantageous features of both the hand-pallet and the embossing-machine.

In the accompanying drawings, Figure 1 is a perspective view of an ordinary embossing-press with a hand-pallet attached. Fig. 2 shows a common form of hand-pallet, and also so much of the plunger or head of the machine as is necessary to illustrate the socket in which the pallet is fitted, both parts enlarged. Fig. 3 is a side elevation of another style of press with a pallet attached.

Referring to Figs. 1 and 2, A represents an ordinary embossing-press, which can be used either with or without a pallet, its head *a* being provided on its under side with ways (not shown) for the reception of a chase containing type, and a pipe, *a'*, for conveying gas or steam to the inside of the head for heating it. In the front side of head *a* is formed a recess or socket, *b*, of a shape adapted to receive the upper portion of a pallet, and from this socket projects a pin, *c*, firmly secured in the head to pass through the pallet and hold it in place in the socket. Further description of the press is unnecessary, as its construction and operation are well known to book-binders.

B represents a hand-pallet, consisting merely of a frame for holding a single line of type, *d*, which are firmly secured therein by set-screw *b'* at each end. Through the pallet, preferably just below its handle *h*, I form a hole, *i*, of a size to fit snugly over pin *c* in head or plunger *a*, for the purpose above stated.

C, Fig. 3, represents another common form of press, with a pallet attached in the manner above indicated. In this press the pallet has a very limited vertical movement; but the bed *k* may be adjusted by the hand-wheeled screw *l*, resting on pedestal *m*, so as to adapt the press for books or larger articles, as valises, trunks, &c.

When a job of lettering is to be done, I set the type in the pallet, heat the pallet in any convenient way, preferably on a gas-stove, and then



bring the type in contact with gold-leaf, to take  
up a strip just the size of the line of type. I then  
quickly attach the pallet to the head or plunger,  
draw down the lever, and thus by the great  
5 power applied force the type into the cloth or  
other material operated on. Instead, however,  
of taking the gold-leaf up on the type, I may  
spread a sheet of it upon the surface to be  
lettered, and proceed in the same manner as  
10 when lettering with an embossing-press. Fur-  
thermore, instead of heating the pallet in the  
manner above stated when used with an em-  
bossing-press, it may be heated by heating the  
head of the press in the usual manner, in which  
15 case two or more pallets may be used alter-  
nately to advantage.

It is to be understood that I do not limit my  
invention to the use of any particular press  
other than such as is provided with a bed, a  
20 movable head or plunger, and mechanism,  
screw, or other similar means for operating

the head or plunger, nor to any particular  
means for removably attaching the pallet to  
the press.

What I claim as my invention, and desire 25  
to secure by Letters Patent, is—

In a machine comprising a bed, a head or  
plunger, and mechanism for operating the lat-  
ter, the combination, with the head or plun-  
ger, of a book-binder's hand-pallet having a 30  
hole formed through it, the front face of said  
head or plunger being recessed, substantially  
as shown, and provided within said recess with  
a pin adapted to enter the hole in the pallet, in  
the manner and for the purpose above set forth. 35

In testimony whereof I affix my signature in  
presence of two witnesses.

CHARLES H. SHRADER.

Witnesses:

M. C. MASSIE,

WM. JAS. DAVIDSON.