

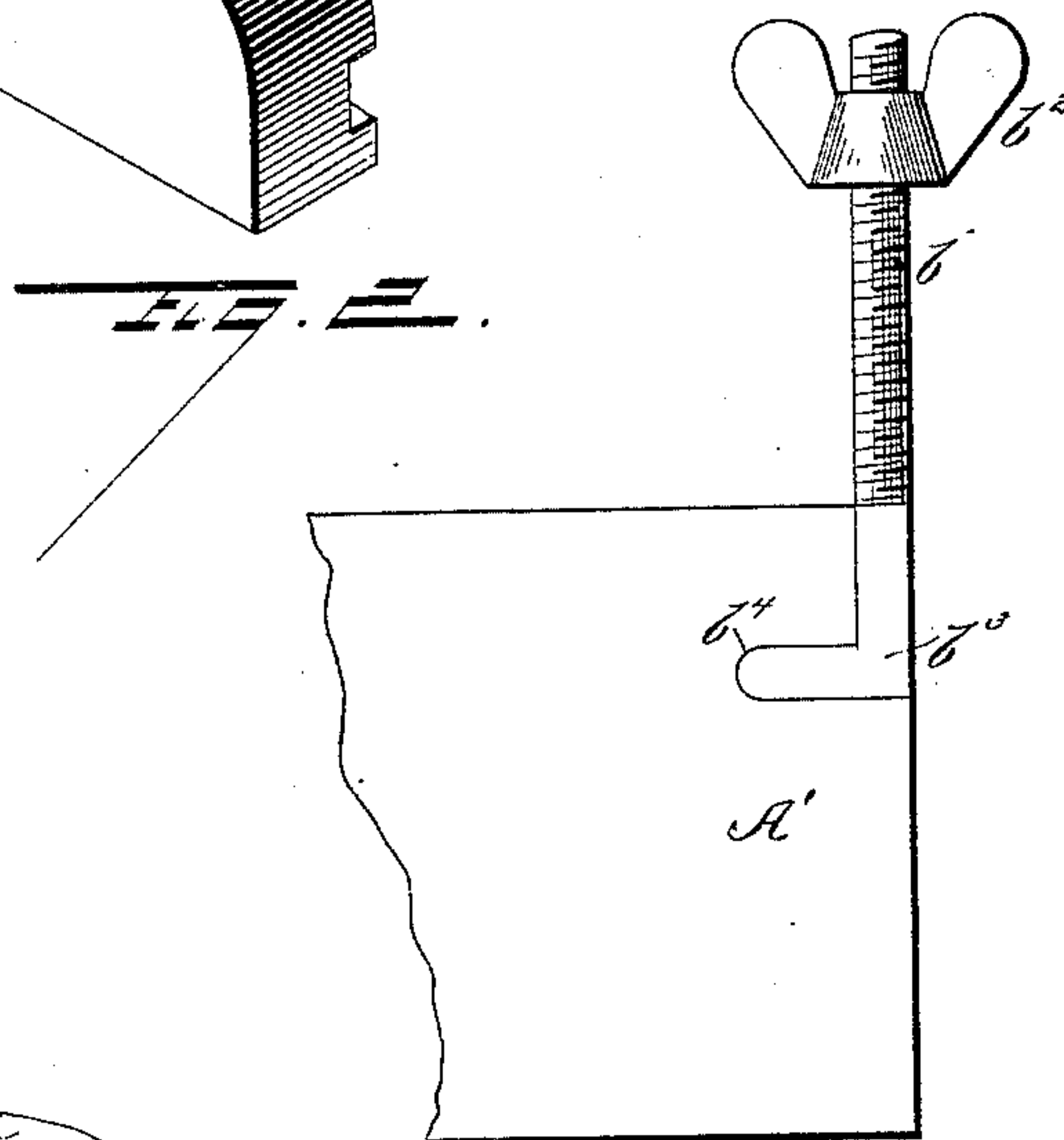
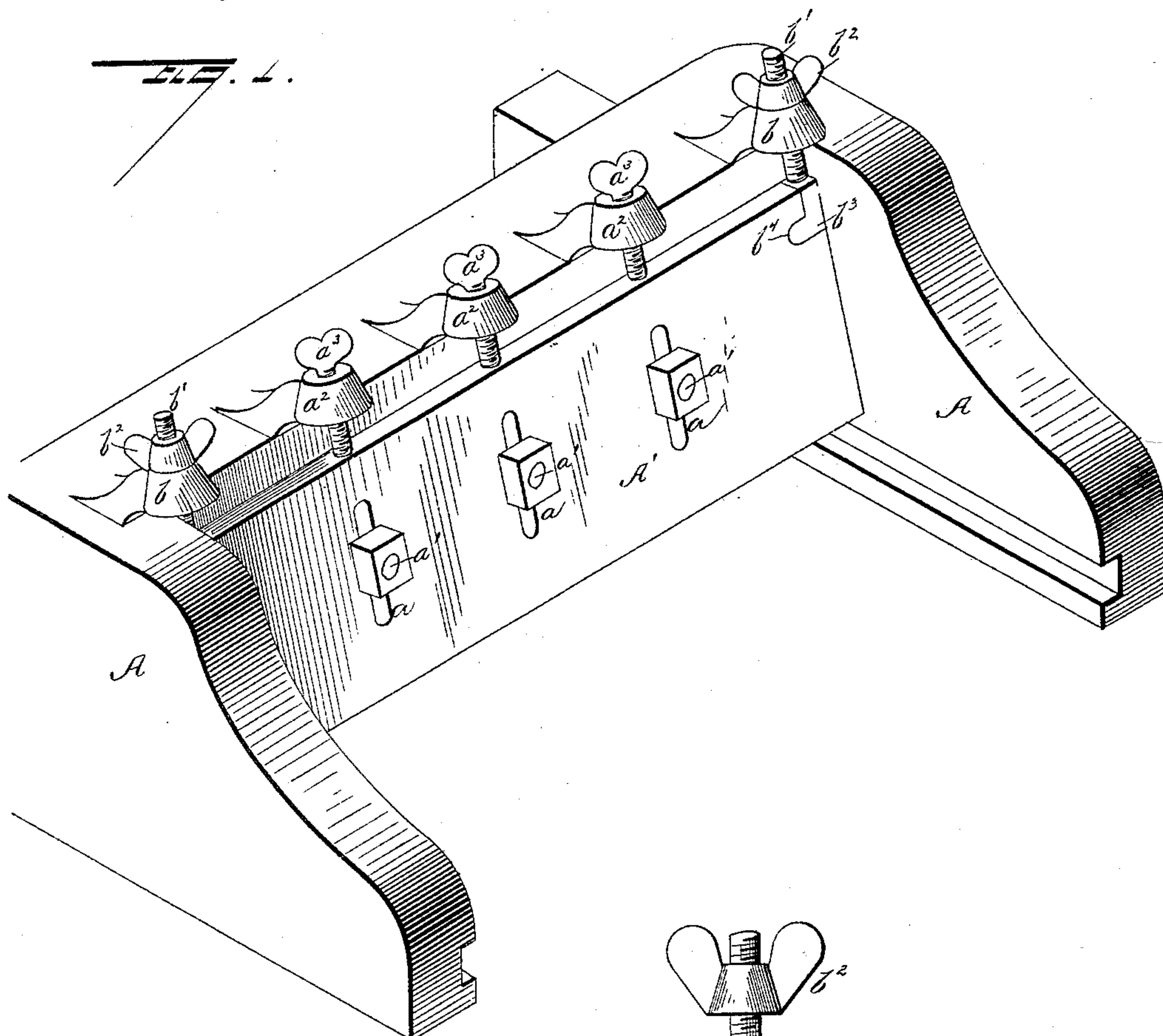
(No Model.)

E. A. BLAKE.

MACHINE FOR SHAVING STEREOTYPE PLATES.

No. 327,857.

Patented Oct. 6, 1885.



WITNESSES:

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MACHINE FOR SHAVING STEREOTYPE-PLATES.

SPECIFICATION forming part of Letters Patent No. 327,857, dated October 6, 1885.

Application filed March 30, 1885. Serial No. 160,659. (No model.)

To all whom it may concern:

Be it known that I, EDWARD A. BLAKE, a citizen of the United States, residing at Chicago, in the county of Cook and State of Illinois, have invented certain new and useful Improvements in Machines for Shaving Stereotype-Plates, of which the following is a specification, to wit:

This invention relates to an improvement in stereotype-shaving machines; and it consists in certain peculiarities of the construction and arrangement of the cutter-head and means of adjusting the knife, substantially as will be hereinafter more fully set forth and claimed.

In order to enable others skilled in the art to which my invention appertains to make and use the same, I will now proceed to describe its construction and operation, referring to the accompanying drawings, in which—

Figure 1 is a perspective view of a cutter-head and its knife, and Fig. 2 is a detail view of one end of the knife with the adjusting-screw.

A represents a head or frame, such as is commonly used on machines for shaving electrotype and stereotype plates in preparing them for use, and A' is the knife or cutter, which is secured in said head or frame in the usual manner by slots a and set-bolts a' . The frame is also formed with lugs a^2 , in which are placed thumb-screws a^3 , and when the knife is properly adjusted to cut at the desired point, and the set-bolts a' secured, the screws a^3 are run down to press on the upper edge of the knife and prevent any slipping of the same while in use.

In machines so constructed there has been some annoyance felt in the adjustment of the knife, from the fact that when the nuts on the set-bolts were loosened, and the knife dropped or lifted to the desired point at one end, this end was liable to slip down while the other was being adjusted, as none of the clamping-nuts on the bolts could be tightened till the blade was properly set at its whole length. To obviate this difficulty I provide the frame or

head A with an extra lug, b , at each side, and through these pass two bolts, b' , each provided with a thumb-nut, b^2 , on its upper end, and formed with a head or hooked end, b^3 , on the other end, which engages with or lies in a recess, b^4 , on the end of the knife-blade. The knife is thus supported on these two bolts and adjusted by means of them to any desired point, and then secured by the clamp-bolts and set-screws, as before. Thus both ends of the knife are positively and delicately adjusted, and it cannot slip out of place till secured by the bolts provided for that purpose. While I have shown and prefer to use two bolts for adjusting the blade, yet it is evident that one or any number may be used, as desired, by the maker or user.

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

1. In a machine for shaving stereotype-plates, the combination, with the cutter-head, of an adjustable cutter-blade, and a bolt from which it is hung, and by which it is evenly adjusted, substantially as and for the purpose set forth.

2. In a machine for shaving stereotype-plates, the combination, with the cutter-head, the adjustable blade, and means for clamping it in position, of a pair of headed screws, to which the blade is detachably suspended, and set-nuts thereon for aiding in the even adjustment of the knife, substantially as and for the purpose set forth.

3. The combination, with the frame A, having lugs b , of the cutting-blade A', formed with recesses b^4 , the screws or bolts b' , having heads or hooks b^3 on one end, and the thumb-nuts b^2 , substantially as and for the purpose set forth.

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

EDWARD A. BLAKE.

Witnesses:

W. C. MCARTHUR,
F. STRATTON.