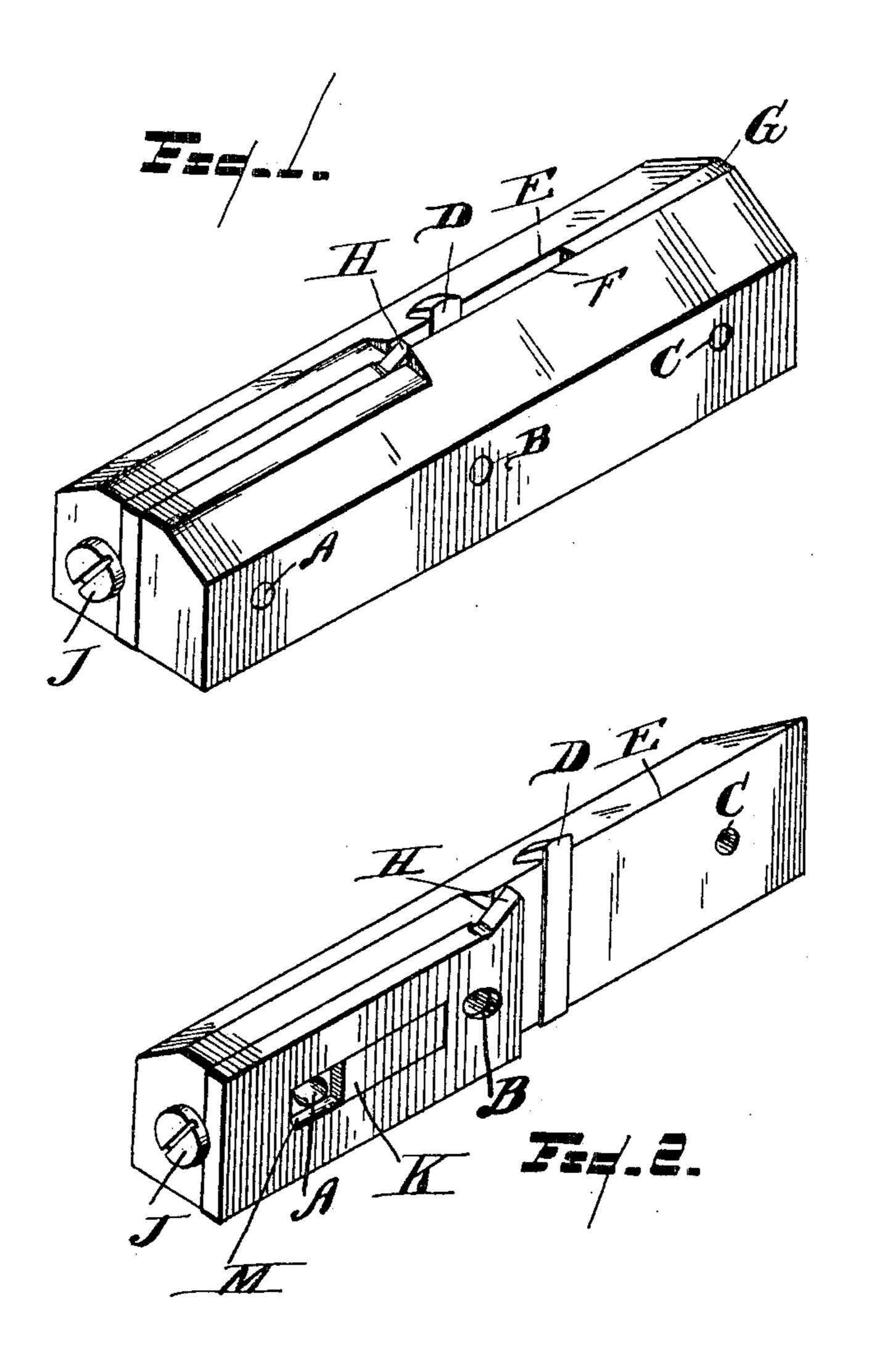
No. 819,034.

PATENTED MAY 1, 1906.

J. B. ALLEN. TRIMMING KNIFE AND GUIDE. APPLICATION FILED JUNE 6, 1903.



WITNESSES
John Schurphy
Victor Williamson

Janus B. Allen

pur Sale.

Mittorney

UNITED STATES PATENT OFFICE.

JAMES B. ALLEN, OF DETROIT, MICHIGAN.

TRIMMING-KNIFE AND GUIDE.

No. 819,034.

Specification of Letters Patent.

Patented May 1, 1906.

Application filed June 6, 1903. Serial No. 160,319.

To all whom it may concern:

Be it known that I, James Benjamin Allen, a citizen of the United States of America, residing at the city of Detroit, in 5 the State of Michigan, have invented certain new and useful Improvements in Trimming-Knives and Guides; and I do hereby declare the following to be a full, clear, and exact description of my said invention, such as will enable others skilled in the art to which it pertains to make and use the same.

This invention relates to trimming devices and guides used in machines in which type are cast in slugs or lines; and the object of the present invention is to obtain a knife that while trimming the slug or line of type holds it properly in place, so that all slugs may be of equal height to the face of the type when trimmed, that trims the sides and the bottom of the slugs at the same time, that is adjustable, that has a feather which acts as a guide upon which the slug may slide when ejected into the receiving-box by the ejector-bar.

In the type of machines to which the invention is applicable primarily the slug or line has upon one side a groove, which groove is caused by a ridge in the casting-box and which said groove after the casting of the slug 30 coacts with a guide upon which the slug may slide in its course to the receiving-box, and in such machines it is very desirable for the purpose of obtaining a more perfect and exact slug and of the full type height that the 35 slug should be trimmed on all sides except the type side at one operation and should be held firmly and properly in the operation and that the knife which cuts the slug to the proper height should be within a small extent ad-40 justable.

This invention is applicable to all machines in which type are cast in slugs or lines. Figure 1 is a perspective view of one form

of this trimming and guiding device. Fig. 2
45 is a perspective view of the same with the front half of the knife removed, showing also the feather and the intervening piece between the two halves which determines the width of the slot through which the slug passes
50 when being trimmed and the adjustable end knife for trimming the bottom of the slug.

In Fig. 1, A, B, and C are three machine

screw-holes, by which parts of the trimming-knife are secured together. D is a feather upon the trimming-knife of a size made exactly to fit the groove in the side of the slug formed by the ridge in the casting-box. E and F are the two sides of the trimming-knife for trimming the sides of the slugs. G is an intervening piece which with the knife 60 H determines the width of the slot L, through which the slug passes. H is the knife of the trimming device which trims the bottom of the slug, and the degree of movement of this knife is adjusted by the head of the screw J. 65

In Fig. 2 the same letters apply to the same parts. K is a boss upon which the bottom trimming-knife slides when being adjusted by the screw. The machine screw-holes A and B are slightly elongated to allow suffi- 70 cient movement of the bottom trimmerknife H for the purpose of trimming the bottom of the slug. The movement of this trimmer-knife for altering the distance between the lower edge of the feather and the knife H 75 does not ordinarily amount to more than a few thousandths of an inch. M is a slot in the knife H, allowing movement thereof upon the boss K. The feather D on the trimmerknife is extended beyond the surface of the 80 knife for the purpose of fitting into the groove in the slug before the trimming of the slug by the knives has actually begun.

I claim as my invention—

1. A device for trimming linotypes comprising two parallel knives having a space between them, a feather secured to one of the knives and lying in said space so as to act as a guide for the slug and a third knife filling one end of said space.

2. In trimming-knives and guides used in linotype-machines the combination, with a knife which trims the bottom of the slugs or linotypes, of a feather adapted to fit into a groove in the slug and acting as a guide and 95 bearing to hold the slug against the knife during the operation of trimming said feather being connected to a part of the device in front of said knife.

3. In trimming-knives and guides used in 100 linotype-machines the combination with a knife adapted to trim the bottom of the slug or linotype and having a slot therein, a boss connected to a part of the device upon which

the said knife slides by means of said slot, a screw adapted to be moved so as to act as an adjustable stop to regulate the degree of movement of the said knife, of knives which 5 at the same time trim also the sides of the linotype, and a feather adapted to fit in a groove in the slug and acting as a guide and bearing to hold the slug against the bottom

•

cutting-knife during the operation of trimming, substantially as described.

In witness whereof I have hereunto set my hand in presence of two witnesses.

JAMES B. ALLEN.

Witnesses:

ERNEST B. LANE, JNO. SALE.