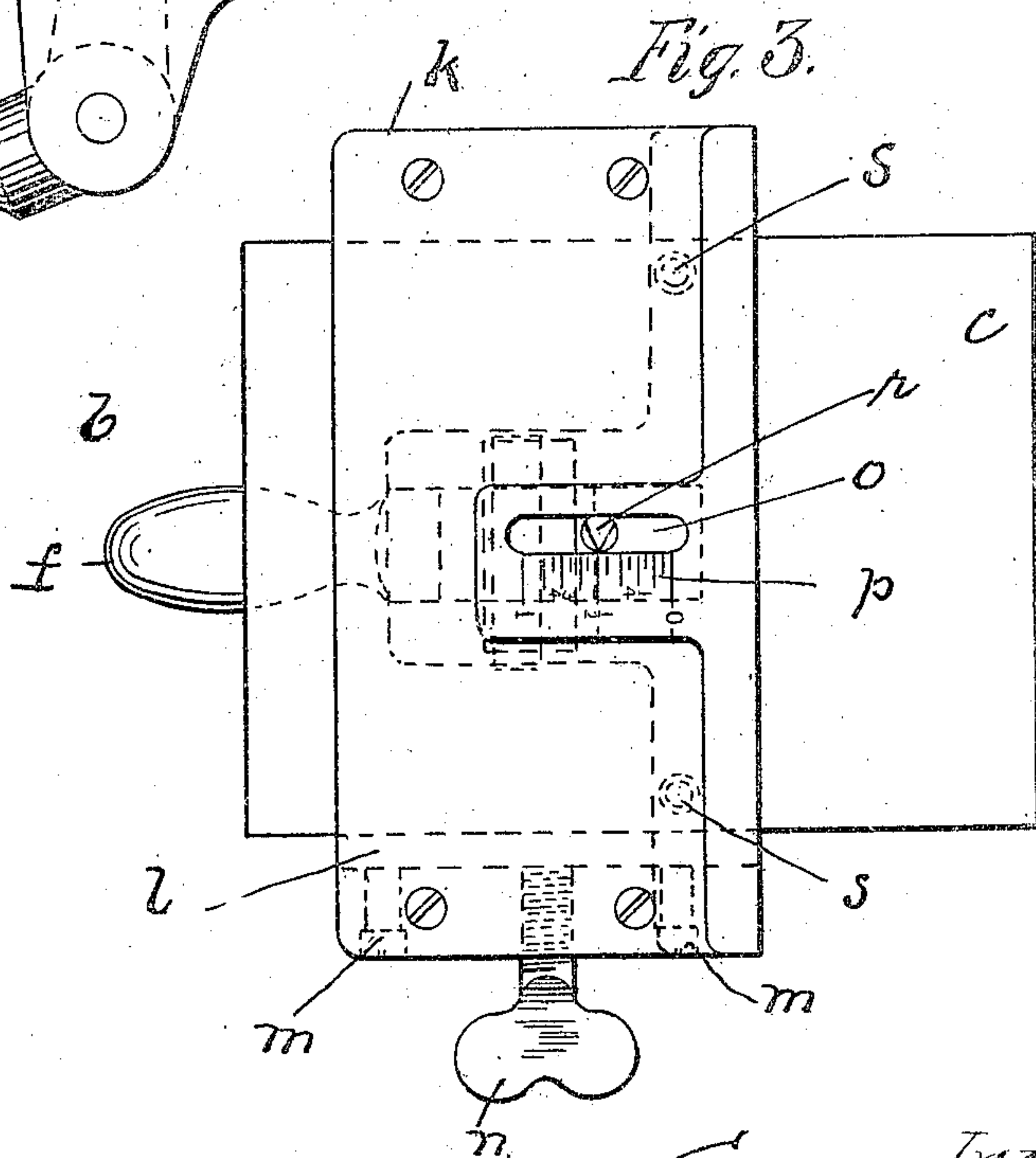
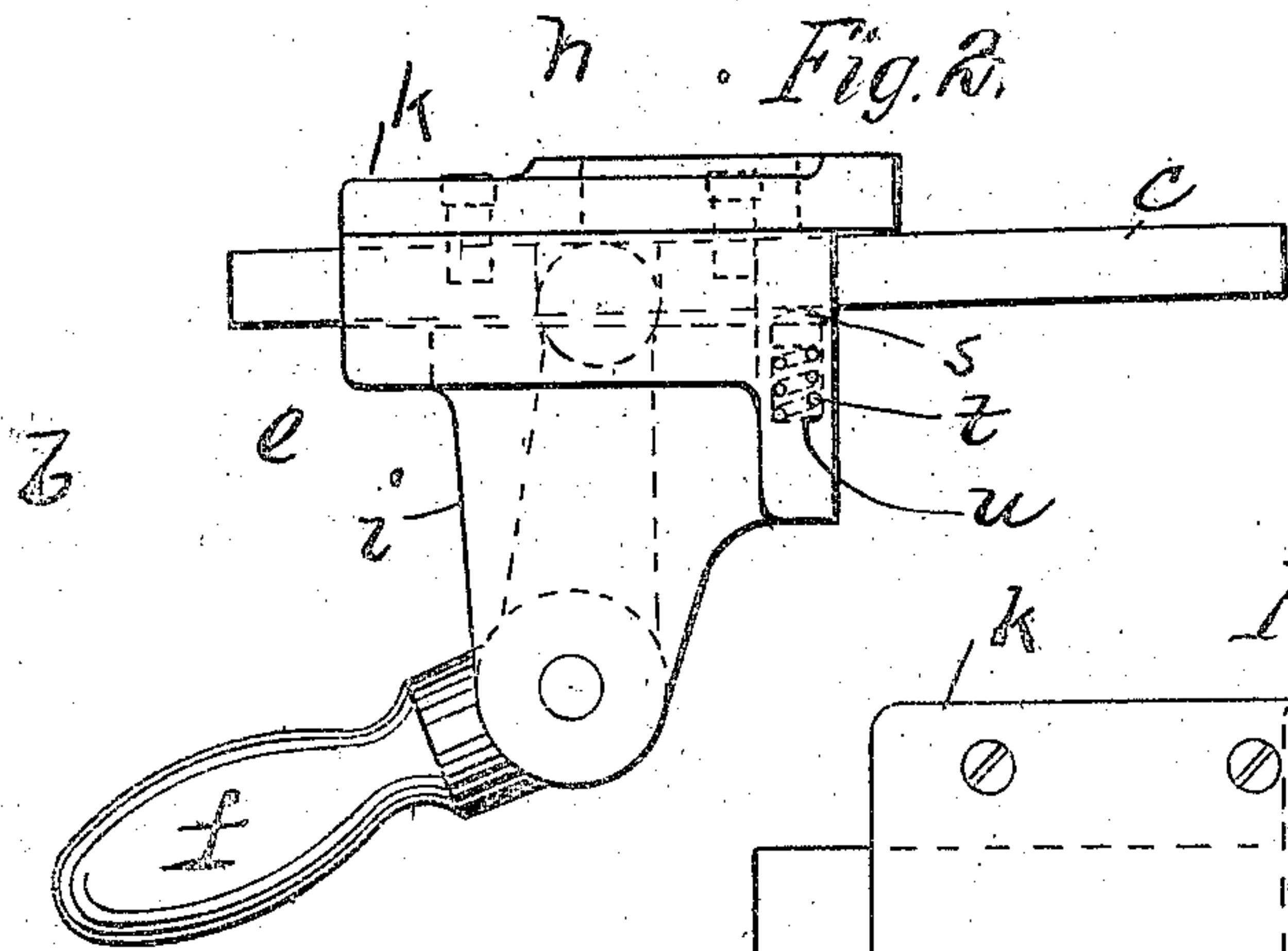
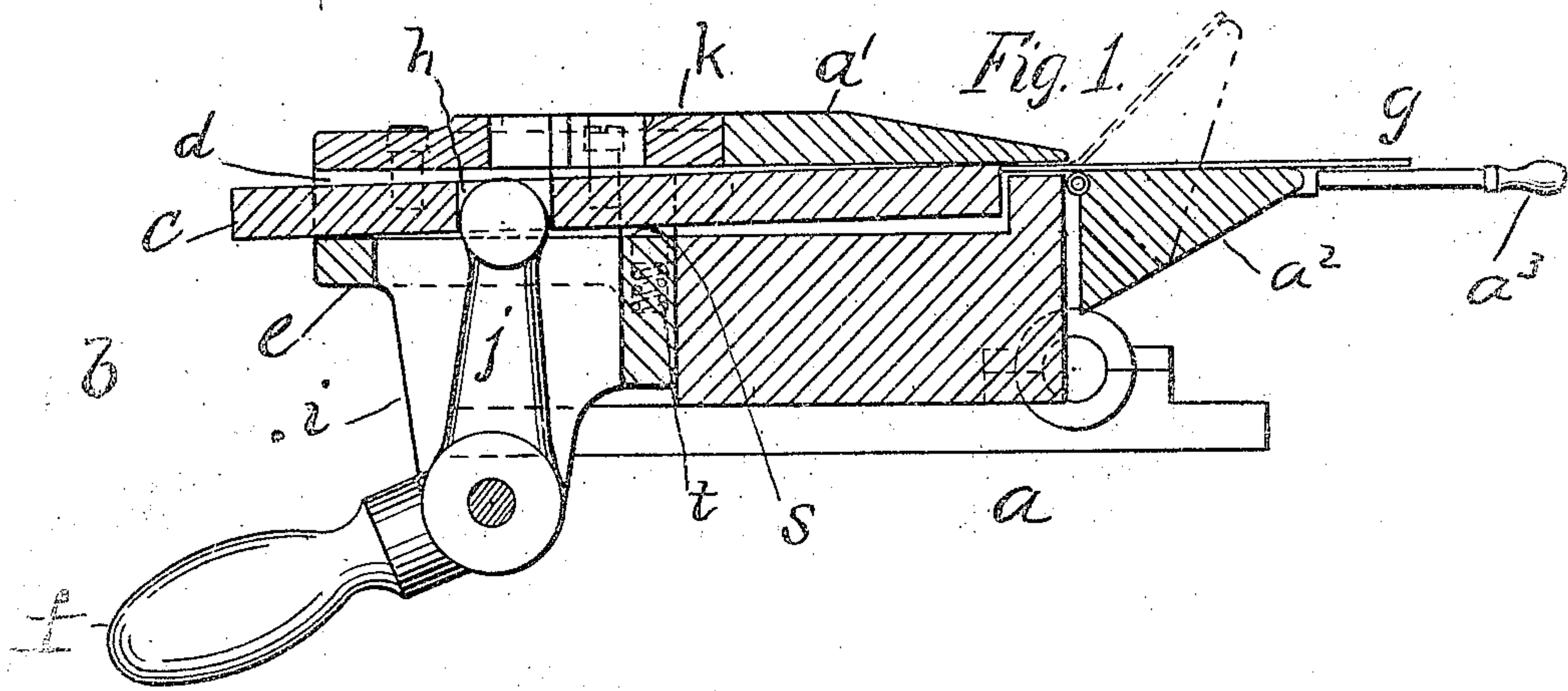


No. 821,765.

PATENTED MAY 29, 1906.

E. W. TALMADGE.
MACHINE FOR FOLDING SHEET METAL.
APPLICATION FILED JUNE 24, 1905.



Witnesses:
F. H. Elliott.
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Inventor.
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UNITED STATES PATENT OFFICE.

ELMER W. TALMADGE, OF PLANTSVILLE, CONNECTICUT, ASSIGNOR TO
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MACHINE FOR FOLDING SHEET METAL.

No. 821,765.

Specification of Letters Patent.

Patented May 29, 1906.

Application filed June 24, 1905. Serial No. 266,862.

To all whom it may concern:

Be it known that I, ELMER W. TALMADGE, a citizen of the United States of America, residing at Plantsville, in the county of Hartford and State of Connecticut, have invented certain new and useful Improvements in Machines for Folding Sheet Metal, of which the following is a specification.

My invention relates particularly to machines for working metal, particularly machines in which sheet metal is subjected to rolling, folding, and similar bending operations, and particularly to a novel form of gage against which the stock may be fed to determine the point at which the fold or roll shall occur.

In the drawings, Figure 1 is a vertical section through the gage and the bed of the machine. Fig. 2 is a side elevation of the gage. Fig. 3 is a plan view of the gage.

I have illustrated my invention as applied to an ordinary bending-machine, such as is used by tinner for forming locks or wire rolls in sheet-tin.

The machine is indicated in general at *a*.

b denotes in general the gage, which in the preferred form is made separate from the bed of the machine and is secured thereto in any suitable manner, as by screws. This gage comprises a gage-plate *c*, mounted to slide in a channel *d* in the bed *e* and is reciprocated by the lever *f*, in a manner which will be more fully described hereinafter, to advance the gage-plate onto the table of the folding-machine, so that the stock, which is indicated by the letter *g*, may be fed up against the gage-plate, as clearly shown in Fig. 1.

The gage proper comprises the bed-piece *e*, which is channeled, as at *d*, and in this channel is located the plate *c*. The plate is mortised, as at *h*. On the under side of the bed are two depending ears *i*, between which the L-lever *j* is pivoted, one end of the lever being formed into cylindrical shape and adapted to fit into the mortise *h* in the gage-plate. A cap *k* is secured to the bed and holds the gage-plate in place. The gage-plate is not quite as broad as the channel in order to provide room for a gib *l*, which may be ad-

vanced by the screws *m* to take up the wear and is also pressed forward by the thumb-screw *n* in order to lock the gage in any desired position of adjustment. The cap is slotted, as at *o*, and one side of the slot is provided with graduations *p*. An indicator *r* is carried by the gage-plate and projects into this slot in the cap, cooperating with the graduations along the edge of the slot to permit of the accurate adjustment of the gage to determine the size of the fold. In the forward end of the channel in the bed there are located pins *s*, which rest on springs *t*, located in recesses *u* in the bed, these pins exerting an upward pressure on the gage-plate in order to keep its forward edges in contact with the table of the folding-machine to prevent the stock from riding up over the gage-plate.

The channel-bed, in which the gage-plate slides, may be made integral with the frame of the machine; but I prefer to make it separable therefrom.

In operation the metal *g*, lying on the folding-leaf *a'*, is pushed in under the bending-plate *a'* until it comes against the gage-plate *c*. The folding-leaf *a'* is then raised by the handle *a''* and carried over until it lies on the beveled surface of the bending-plate *a'*. The dotted lines show the folding-leaf in about mid-position.

A device of this character constructed in accordance with my invention is cheap and very quickly operated and has a decided advantage in that the gage-plate may be quickly moved from one position to another.

I claim as my invention—

1. The combination with a metal-working machine, of a gage comprising the channeled bed, a gage-plate slidingly mounted therein and having a mortise, and a lever pivotally supported on said bed having one end projecting into said mortise, and an indicator carried by said gage-plate and cooperating with graduations on the bed to determine the amount of adjustment of the gage-plate, substantially as described and for the purposes set forth.

2. The combination with a metal-working machine, of a gage comprising the channeled

bed, a gage-plate slidingly mounted therein
and having a mortise, and a lever pivotally
supported on said bed having one end pro-
jecting into said mortise, and an indicator
5 carried by said gage-plate and coöperating
with graduations on the bed to determine the
amount of adjustment of the gage-plate, and
means for locking said gage-plate in adjust-

ed position, substantially as described and
for the purposes set forth. 10

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

ELMER W. TALMADGE.

Witnesses:

THOMAS F. WELCH.

MARCUS H. HOLCOMB.