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G. NELSON.
GAGE FOR PAPER CUTTING MACHINES.
APPLICATION FILED MAR. 18, 1907.

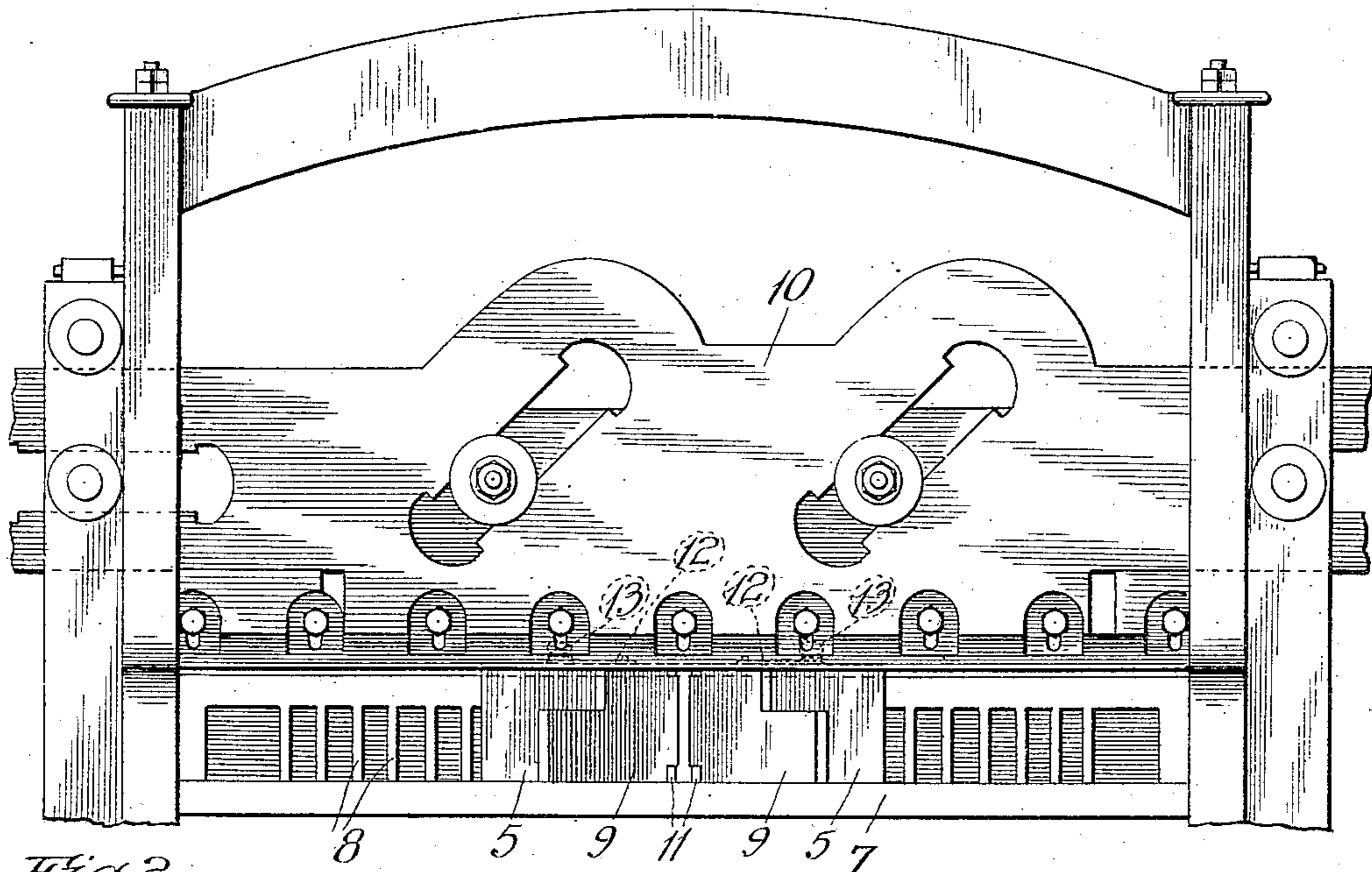


Fig. 2.

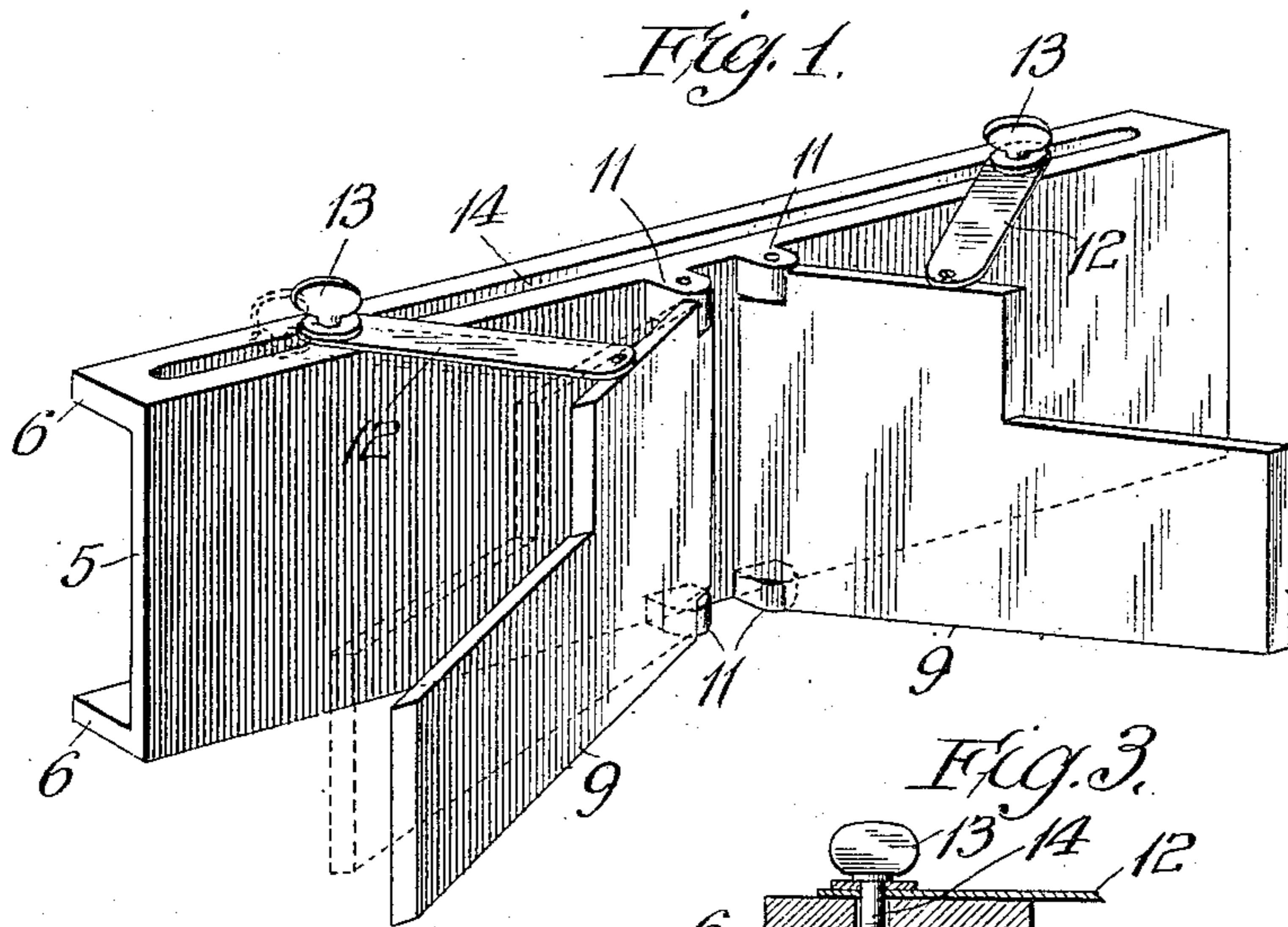


Fig. 1.

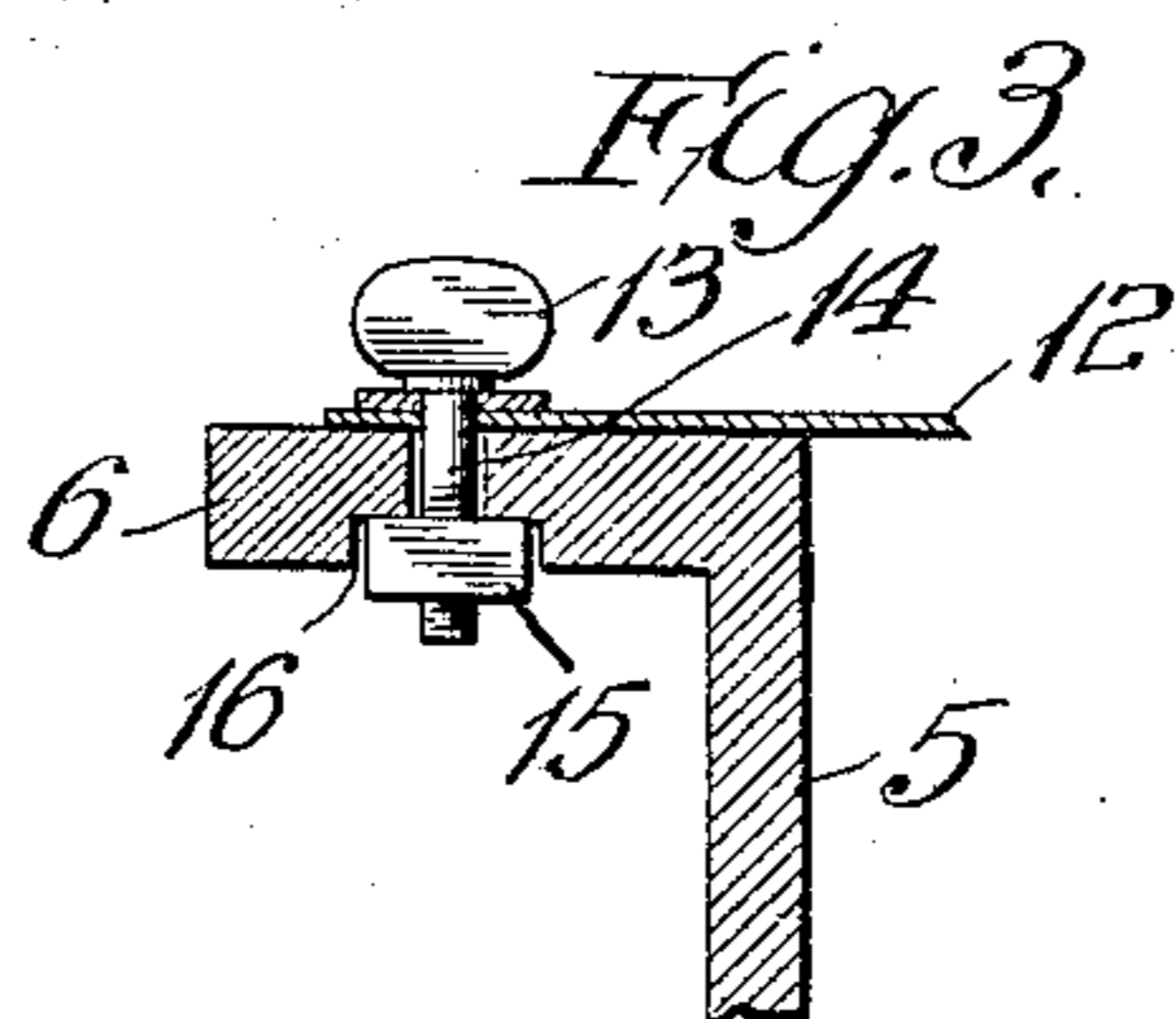


Fig. 3.

Witnesses
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UNITED STATES PATENT OFFICE.

GEORGE NELSON, OF CHICAGO, ILLINOIS.

GAGE FOR PAPER-CUTTING MACHINES.

No. 870,578.

Specification of Letters Patent.

Patented Nov. 12, 1907.

Application filed March 16, 1907. Serial No. 362,763.

To all whom it may concern:

Be it known that I, GEORGE NELSON, a citizen of the United States, residing at Chicago, in the county of Cook and State of Illinois, have invented a certain new and useful Improvement in Gages for Paper-Cutting Machines, of which the following is a specification.

My invention relates to gages for paper cutting machines, and the object of the invention is to provide a portable gage for holding paper, strawboard, leather, or any of the other similar material ordinarily used in the printers' and bookbinders' art, in any desired position relatively to the cutting knife.

I obtain my object by the mechanism illustrated in the accompanying drawing, in which

Figure 1 is a perspective view of the complete device; Fig. 2 is a front view of a portion of a portable cutting machine, showing my portable gage in position thereon; and Fig. 3 is a fragmentary sectional view, taken transversely of the base for illustrating the preferred form of set screw and guide.

Similar numerals refer to similar parts throughout the several views.

In the preferred form of my invention here illustrated, the base 5 is adapted to stand in upright position, and is provided with two flanges, 6, 6, extending at right-angles thereto. The lower flange is adapted to rest upon the table 7 of the paper cutter, and both of the flanges are adapted to rest against the permanent gage or grating 8 of the paper cutting machine.

To the front of the base 5 are hinged wings 9, 9, which are arranged to swing about an axis parallel to the path of the reciprocating knife 10 of the paper cutting machine. In the construction here shown, the wings are hinged, top and bottom, upon separate lugs 11, but it is not essential that said wings have separate axes, for said axes may be co-incident without departing from the spirit of the invention.

The means for adjusting the wings and fixing them in the desired position, is clearly illustrated in Fig. 1, taken in connection with the fragmentary sectional view of Fig. 3. In this form of my invention, a rod 12 is pivotally attached to the upper edge of each wing. The other end of the rod carries a set screw or bolt 13 which passes through it and the slot 14 in the upper flange 6. Beneath said flange said set-screw or bolt carries the nut 15, which, by preference, is square, and is adapted to slide within the channel 16 extending longitudinally in the upper flange 6 along slot 14.

In the operation of the device, when it is desired to employ my portable gage for cutting paper or other

stock upon an angle, the gage is placed upon the table 7 of the machine and moved up against the permanent machine-gage 8. The screws 13 are backed off, so that said screws and the nuts 15 may assume any position lengthwise of the upper flange 6. The wings 9 are then brought by the operator to the desired position to give the proper angle to the stock. The operator then tightens up the screws 13, thereby firmly securing the wings 9 in adjusted position. The stock may then be moved in position between and against the inner surfaces of wings 9, and when the knife descends it will cut the stock accurately. By employing my gage, an indefinite number of pieces of stock may be cut exactly alike, and the gage may be filled and the cutting operation repeated over and over again on fresh pieces of stock, with the certainty that the pieces will all be exactly alike. This is very desirable, especially in cutting small pieces of stock in triangular shapes. For example, book binders, in producing the corner leathers for binding books in what is known as "half leather" frequently have to handle a great number of small pieces, all of which are to be exactly alike. In reproducing pieces of this kind by the ordinary method considerable variation is apt to result. By employing my gage however any number of pieces exactly alike in form may be produced rapidly and without any particular degree of care or skill on the part of the operator. In the preferred form the wings are pivoted upon separate axes as shown. As a result, the edges of the wings do not come closely together and consequently the corner of the paper to be cut may enter between the wings without hindrance. Moreover there is little opportunity for any foreign substance to become lodged in the corner of the gage and prevent accurate placing of the paper; and the device is also easier to keep clean.

What I claim as new and desire to secure by Letters Patent is:

1. A gage for paper cutting machines comprising an upright base and two wings pivoted thereto about separate axes parallel to the path of the cutter of the machine.

2. A portable gage for paper cutting machines consisting of a base adapted to rest upon the table and against the permanent gage of the machine, wings pivoted to said base upon different axes, the inner corners of said wings being separated from each other and means for setting said wings in desired position.

3. A portable gage for paper cutting machines having a base adapted to stand upright upon the table of the cutting machine and against the permanent gage thereof, wings pivoted to said base upon axes remote from each other, rods pivoted to said wings and adjustably connected

to said base whereby wings may be set independently of each other at any desired angle.

5 4. A portable gage for paper cutting machines having a paper table and a permanent gage, said gage comprising a base adapted to stand upright upon the table, horizontal flanges on said base for abutting the permanent gage, the upper one of said flanges being slotted longitudinally, wings pivoted to said base, rods pivoted at one end to said wings, set screws pivoted to the other end of said rods and

extending through said slot, and nuts on said screws beneath said flange for holding the parts in adjusted position. 10

In witness whereof, I have hereunto subscribed my name in the presence of two witnesses.

GEORGE NELSON.

Witnesses:

PETER JENSEN DAHL,
HOWARD M. COX.