

(No Model.)

W. B. SHEFFIELD.
GAGE FOR PAPER CUTTING MACHINES.

No. 466,430.

Patented Jan. 5, 1892.

Fig. 1.

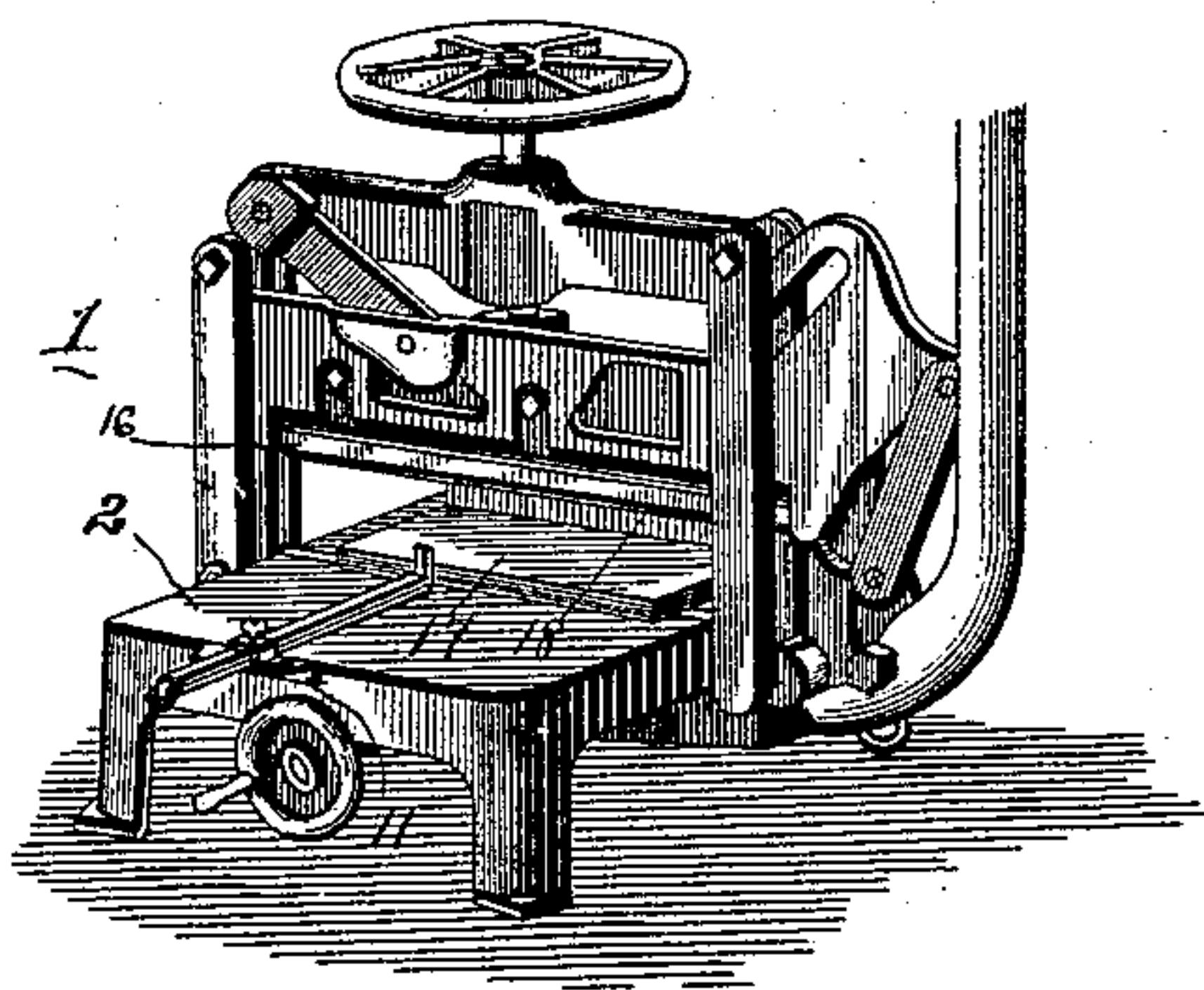


Fig. 7.

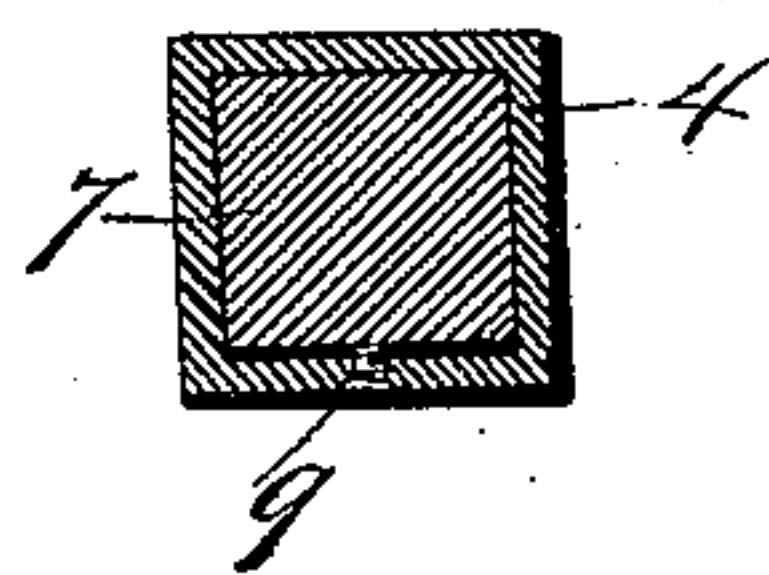


Fig. 2.

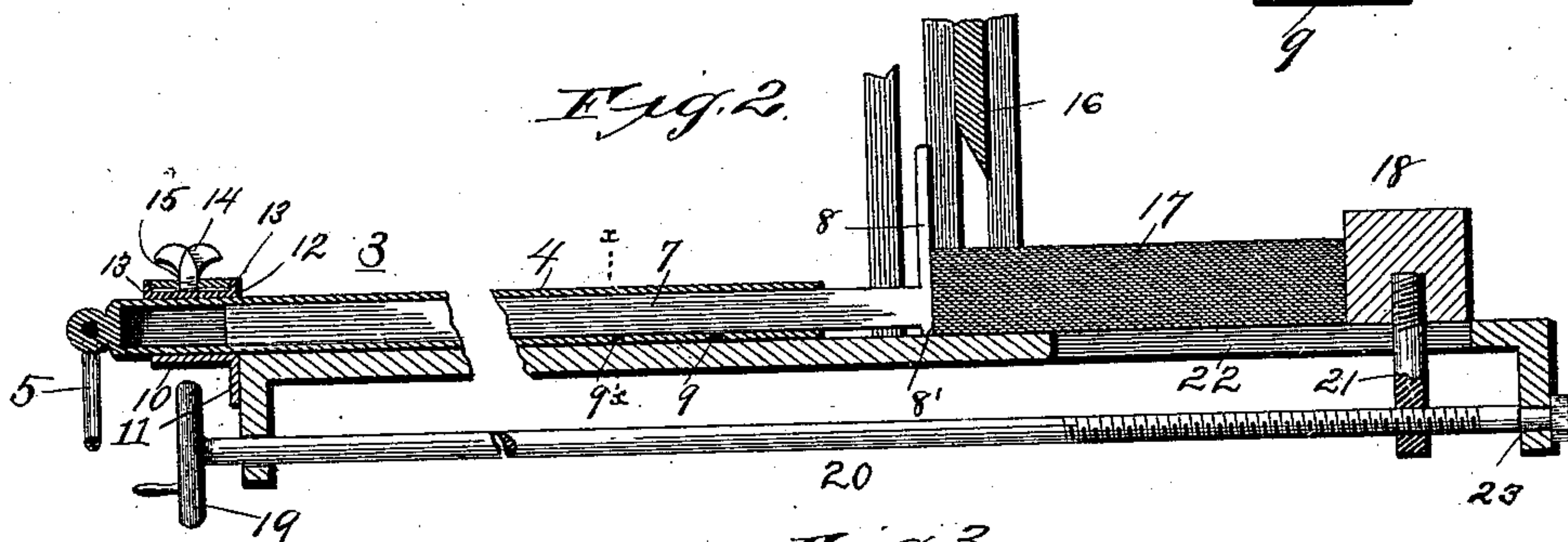


Fig. 3,

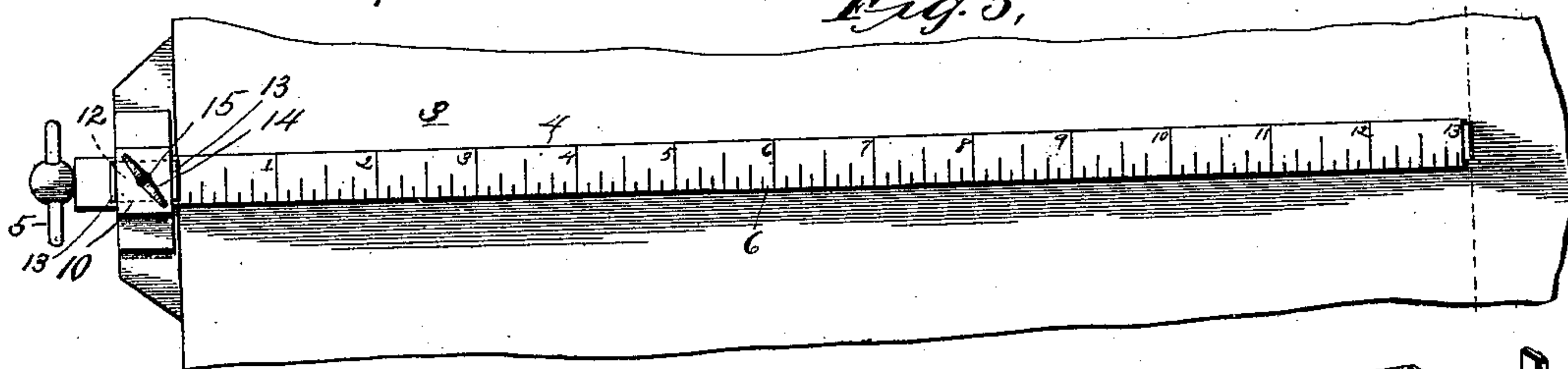


Fig. 4.

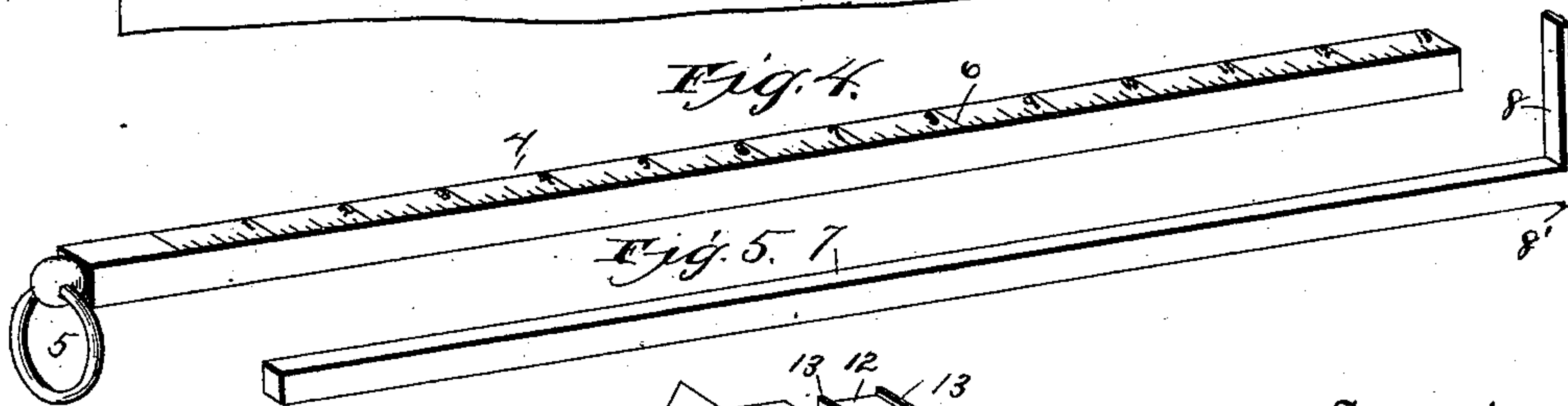
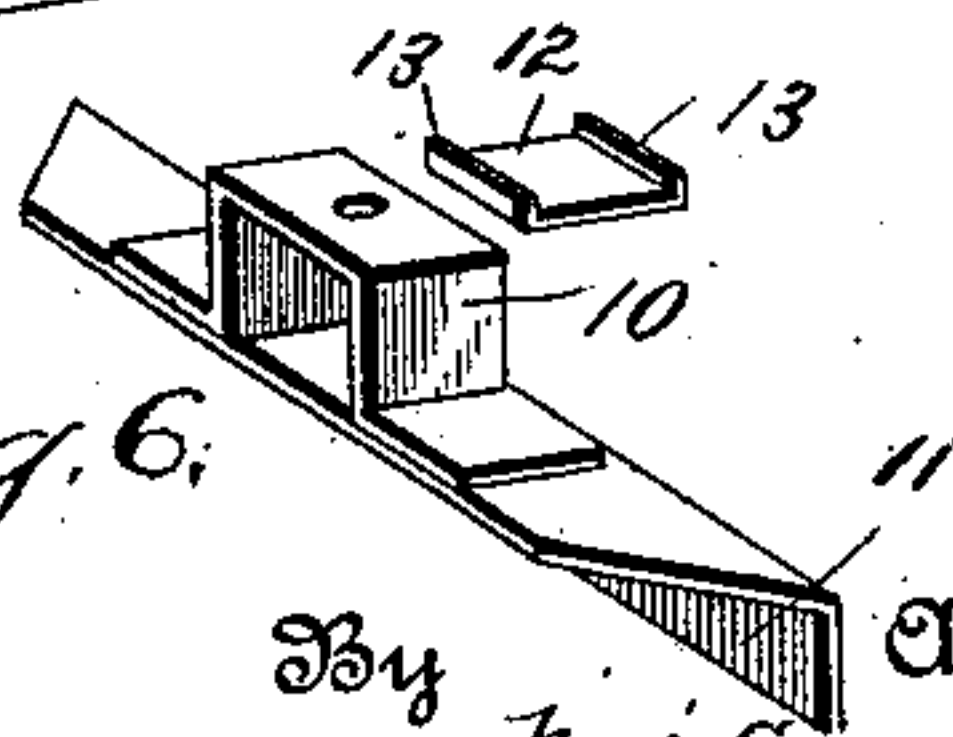


Fig. 5. 7



Witnesses

Left home
N. E. Price

Fig. 6.

විද්‍යා

Th

Attorneys.

¹⁸⁴⁵
Higdon & Higdon.

Inventor
W^m B. Sheffield,

UNITED STATES PATENT OFFICE.

WILLIAM B. SHEFFIELD, OF KANSAS CITY, MISSOURI.

GAGE FOR PAPER-CUTTING MACHINES.

SPECIFICATION forming part of Letters Patent No. 466,430, dated January 5, 1892.

Application filed December 29, 1890. Serial No. 376,115. (No model.)

To all whom it may concern:

Be it known that I, WILLIAM B. SHEFFIELD, of Kansas City, Jackson county, Missouri, have invented certain new and useful Improvements in Measuring Attachments for Paper-Cutters, of which the following is a full, clear, and exact description, reference being had to the accompanying drawings, forming a part hereof.

My invention relates to appliances to be used as attachments to machine paper-cutters; and the objects of my invention are to provide an attachment which shall be simple, durable, and comparatively inexpensive in construction, and which shall serve to accurately gage the width or other dimensions into which the paper is to be cut, and which shall, furthermore, be easily and quickly manipulated to vary the measurements of the cut paper, and, finally, which shall be capable of ready attachment to and removal from paper-cutting machines of a great variety of types.

To the above purposes my invention consists in certain peculiar and novel features of construction and arrangement, as hereinafter described and claimed.

In order that my invention may be fully understood, I will proceed to describe it with reference to the accompanying drawings, in which—

Figure 1 is a perspective view of a paper-cutting machine having my improved gage applied thereto. Fig. 2 is a central vertical longitudinal section of the bed of a paper-cutting machine and the immediately adjacent parts with my improved gage applied thereto, the said figure being on an enlarged scale. Fig. 3 is a plan view of the bed of a paper-cutting machine with my improved gage applied thereto, the said figure being also on an enlarged scale. Fig. 4 is a detached perspective view of the graduated scale-sleeve. Fig. 5 is a detached perspective view of the movable fence-bar. Fig. 6 comprises detached perspective views of certain parts hereinafter described. Fig. 7 is a transverse vertical section of the gage on the line *xx* of Fig. 2.

In the said drawings, 17 designates the bed or base of a paper-cutting machine; 18, the usual fence-bar of the same; 20, the usual adjusting-screw rod of said bar, said rod ex-

tending beneath the bed 17 from front to rear thereof, and being reduced at its rear end 23 to pass through the pendent flange at the rear edge of the bed, the front end of the said adjusting-bar carrying the usual hand-wheel 19, by which said bar is operated, and the fence-bar 18, having a pendent internally-screw-threaded lug 21, which engages the externally screw-threaded portion of the adjusting-bar and works in a longitudinal slot 22 in the bed 17.

16 designates the cutting-knife, which, together with its operative connections, may be of the usual or any preferred form, as may also the several other parts above described, such parts being shown to render the operation of my improved gage clear.

7 designates the body portion of the fence-bar, said bar being of elongated form and of such length as to extend from the front end of the bed of a press to or nearly to its cutting-knife, and being preferably of rectangular form in cross-section, as shown. At its inner end this bar is formed or provided with an upwardly-extending arm or fence 8. This fence-bar is surrounded by an elongated sleeve 4, the upper side of which is provided on its external surface with a scale 6, graduated to feet, inches, and fractions of inches, one end of the sleeve having a ring 5 passing therethrough. In assembling these two parts the ring 5 is first detached from the fence-bar 7, and said bar is pushed lengthwise into the sleeve 4, the ring 5 being then placed in position.

The bar 7 and its sleeve 4 are retained in operative relation by any suitable number of set-screws 9, which pass upward through the under side of the sleeve, and the upper ends of which impinge upon the under side of the bar.

11 designates a stop-plate which is of substantially L shape in cross-section, and upon the upper horizontal part of which is placed a U-shaped guide 10, the said guide being of such size as to permit the scale-sleeve to pass through it. A friction or bearing plate 12 is placed immediately beneath the bend of this guide, and is formed with two oppositely-disposed upwardly-extending lips or flanges 13, which embrace the outer and inner edges of the said bend, and thus retain

the plate in position. A set-screw 14 is inserted through a screw-threaded opening 15 in the bend of this guide, and the inner end of this set-screw impinges upon the upper side of the friction or bearing plate and presses the latter against the scale-sleeve, and thus retains the sleeve and bar in any required position of adjustment, the bearing-plate serving to prevent mutilation of the graduated surface of the scale-sleeve by the inner end of the set-screw 14. The manner of using this gage is obvious, the knife of the paper-cutter is raised and the pile of paper to be cut is placed upon the bed of the machine. The set-screw 14 is now loosened and the scale-sleeve and fence-bar are moved to the required distance in the guide 10, after which the set-screw 14 is tightened up. The pendent flange of the stop-piece is now brought against the front edge of the bend and the pile of paper is pressed against the fence 8 of said bar, and the cutting mechanism is operated in the usual manner to sever the required portion of paper.

From this description it will be seen that the device is simple and inexpensive in construction, is readily adjusted for use, and is, furthermore, adapted for use in connection

with a great variety of types of paper-cutting machines.

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

An improved gage for paper-cutting machines, &c., comprising a stop-piece of substantially L shape in cross-section, and provided with a U-shaped guide upon the upper side of the stop-piece, a graduated sleeve passing through said guide, a ring passing through one end of the said sleeve, a bearing-plate interposed between the upper surface of the sleeve and the under surface of the bend of the guide, a set-screw working through the bend of the guide and impinging upon the bearing-plate, a fence-bar working in said sleeve and having a projecting arm or fence at one end, and a number of set-screws passing through the sleeve and impinging upon the bar, substantially as set forth.

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

WILLIAM B. SHEFFIELD.

Witnesses:

S. M. STONE,

H. E. PRICE.