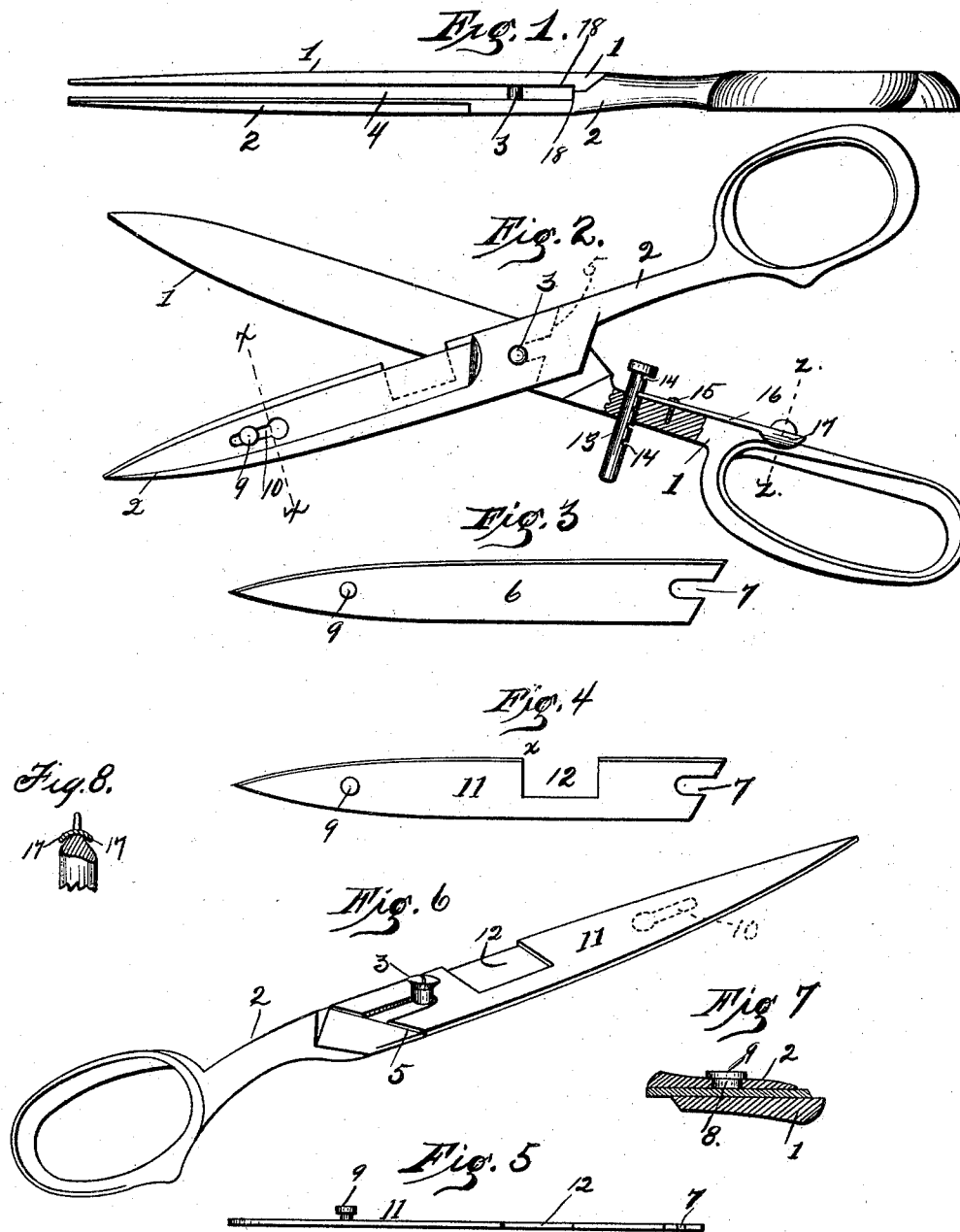


(No Model.)

A. M. WRIGHT.
BUTTONHOLE CUTTER.

No. 492,452.

Patented Feb. 28, 1893.



Witnesses:-
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UNITED STATES PATENT OFFICE.

ALFRED M. WRIGHT, OF McFALL, MISSOURI.

BUTTONHOLE-CUTTER.

SPECIFICATION forming part of Letters Patent No. 492,452, dated February 28, 1893.

Application filed October 3, 1892. Serial No. 447,605. (No model.)

To all whom it may concern:

Be it known that I, ALFRED M. WRIGHT, of McFall, Gentry county, Missouri, have invented certain new and useful Improvements in Scissors, of which the following is a full, clear, and exact description, reference being had to the accompanying drawings, forming a part hereof.

The object of my invention is to produce a pair of scissors, simple in construction, and adapted to receive extra or auxiliary blades, one of which, when attached to the scissors, will cut in the ordinary manner, and by the removal of this blade and the introduction of another blade specially adapted, the scissors can be used for the purpose of cutting button holes.

Another object of my invention is to provide means whereby the blades of the scissors, while being used to cut button holes, can be gaged to cut the holes to any desired size or length. I attain these objects as hereinafter set forth and pointed out in my claims, and illustrated in the accompanying drawings, in which:—

Figure 1. is an edge view of my improved scissors, the auxiliary blade being detached. Fig. 2. is a plan view of a pair of my improved scissors partially opened, and carrying the blade which is adapted for cutting button holes. This view also shows my gaging device secured to one of the shank portions of the scissors. Fig. 3. is a plan view of the auxiliary blade used in ordinary cutting. Fig. 4. is a like view of the auxiliary blade used in the cutting of button holes. Fig. 5. is a front edge view of Fig. 4. Fig. 6. is a perspective view showing the button hole auxiliary blade in position on the recessed blade proper, adapted to receive it. The opposite recessed blade is the companion cutting blade with the auxiliary blade. Fig. 7. is an enlarged cross sectional view taken on the line X—X of Fig. 2., but with the scissors shown closed. Fig. 8. is a cross sectional view on line Z—Z of Fig. 2. Similar figures refer to similar parts throughout the several views.

The numerals 1 and 2, Fig. 1, designate the shanks and the recessed blades proper of the improved scissors, pivoted together in the ordinary manner by a pin, 3, with the auxiliary blade removed.

In my improved scissors the inner faces of the two blades proper are cut away or recessed their entire length from a point immediately in the rear of the pivot, 3, and diagonally across the two blades as shown at 5 in the rear of the pivotal pin, thus forming a bearing place for the bifurcated end of the auxiliary blade when said blade is in position, and at the same time admitting of the free opening and closing of the scissors.

The auxiliary blades, 6 and 11, each conforms in shape and size with the opening 4, seen also in Fig. 1., with the exception that it is slightly broader, as designated at blade proper, 2, at Fig. 2, and its bifurcated end is of such an angle as to fit and bear against the rear ends of the recesses 18, 18 in the blades proper, and is provided with a bifurcation, or slot, 7, which is engaged by the pivot 3 when the blade is in its proper position for using. Near the pointed end of each of the auxiliary blades is a lag pin, 8, provided with a head, 9, which head is of a diameter slightly larger than the lower portion of said lag pin. Near the pointed end of one of the blades proper is a slot, 10, with its rear end enlarged, and of such diameter as to admit the head, 9, of lag pin, 8, to pass upward through it. The blade 11, shown in Fig. 4., with a deep recess, 12, in its front or cutting edge, is particularly adapted for cutting button holes, but will adapt itself for light cutting otherwise. Excepting the recess 12, it is identical with the blade 6 seen at Fig. 3.

13 designates an adjustable headed notched pin, passed loosely through an opening in the shank portion of one of the blades proper. This adjustable pin is provided with a series of notches, 14. Pivoted to said shank by means of a screw, 15, in the rear of the adjustable pin 13 is a spring catch, 16, the forward end of which engages the notches 14 in the spring 13. The rear portion of this spring catch 16 is provided with depending ears, or fingers 17, 17, seen at Fig. 8., which saddles over the shank 1, seen at Fig. 2, and by reason of the resiliency of the spring 16 is held in position, thereby holding the forward end of the catch in engagement with the notches 14 of the adjustable pin 13, so that by lifting the rear end of spring catch from its position on the shank of the scissors, and with a lateral

movement either way its front end is disengaged from notches 14 in pin 13, when said adjustable pin can be raised or lowered to suit the convenience of the user. By this means the stroke, or cut, of the scissors is limited, diminished or enlarged according to the size of the button hole needed.

To adjust and readjust the auxiliary blades to and from the blade proper, the scissors are partially opened, and the bifurcated end of the auxiliary blade is placed between the two blades proper and against the pivotal pin 3; the pin 8, with the enlarged head 9, is passed up through the enlarged portion of slot 10 in the blade proper, then with a rearward movement of the auxiliary blade it becomes securely attached to the blade proper. The scissors are then ready for use according to the blade thus attached. The auxiliary blades are detached by a reversal of the above described movement.

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

1. A scissors, comprising recessed blades adapted to receive an adjustable auxiliary blade provided with a slot or recess in its cut-

ting edge, and a bifurcated rear end, and a lag headed pin near its pointed end, as fully set forth and described. 30

2. A scissors, comprising recessed blades proper adapted to receive adjustable auxiliary blades, provided with a notched adjusting pin, a spring secured to the shank of the scissors, its front end engaging the notches in the pin thereof, as fully set forth and described. 35

3. A scissors, having its two blades recessed at their inner sides, and a notched auxiliary blade having a bifurcated rear end adapted to engage the recess of one of said blades, and an auxiliary blade having an ordinary front cutting surface and having a bifurcated rear end, adapted to engage the recessed inner face of the other blade, and a slot in the outer ends of the scissors blades, and a lag headed pin carried by the auxiliary blades and adapted to engage the slots in the scissors blades, substantially as set forth. 40 45

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

ALFRED M. WRIGHT.

Witnesses:

W. P. BROWN,
G. R. PRYOR.