

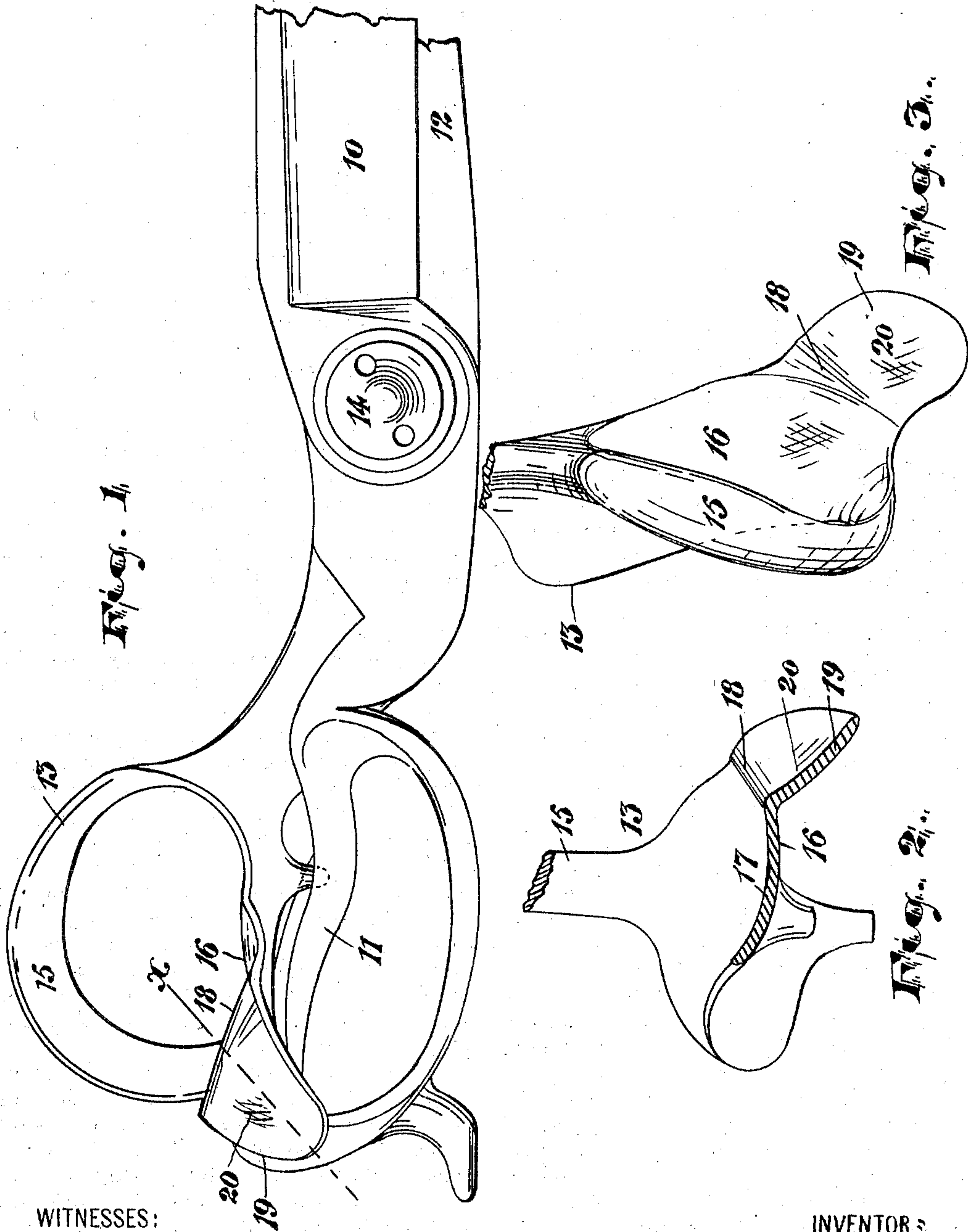
No. 760,204.

PATENTED MAY 17, 1904.

H. C. HEINISCH, DEC'D.
V. HEINISCH, ADMINISTRATRIX.
SHEARS.

APPLICATION FILED JULY 29, 1903.

NO MODEL.



WITNESSES:

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UNITED STATES PATENT OFFICE.

VIRGINIA HEINISCH, OF IRVINGTON, NEW JERSEY, ADMINISTRATRIX OF
HENRY C. HEINISCH, DECEASED.

SHEARS.

SPECIFICATION forming part of Letters Patent No. 760,204, dated May 17, 1904.

Application filed July 29, 1903. Serial No. 167,485. (No model.)

To all whom it may concern:

Be it known that I, VIRGINIA HEINISCH, (administratrix of the estate of HENRY C. HEINISCH, deceased,) a citizen of the United States, residing at Irvington, in the county of Essex and State of New Jersey, do declare that the said HENRY C. HEINISCH, deceased, did invent and produce a new and original Improvement in Shears; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same, reference being had to the accompanying drawings, and to numerals of reference marked thereon, which form a part of this specification.

This invention relates to certain improvements in that class of shears represented by the one shown in Patent No. 454,735, granted Henry C. Heinisch June 23, 1901, the objects of the present improvements being to secure a better bearing for the hand in cutting cloth, particularly when several plies or thicknesses of cloth are cut at one time, the said device being more particularly useful in connection with tailor-work in cutting woolen cloth for men's garments, &c., and to secure more comfort in working for the tailor or other user, the latter being enabled to work with less distress to the hand, and to secure other advantages and results, some of which may be referred to hereinafter in connection with the description of the working parts.

The invention consists in the improved shears and in the arrangements and combinations of parts of the same, all substantially as will be hereinafter set forth, and finally embraced in the clauses of the claim.

Referring to the accompanying drawings, in which like numerals of reference indicate corresponding parts in each of the several figures, Figure 1 is a side elevation of a portion of the improved shears. Fig. 2 is a detail section, taken on line *x*, of the upper hand portion, upon which the pressure of the hand is brought to bear; and Fig 3 is a plan of said hand portion.

In said drawings, 10 indicates the upper blade, with which the lower hand portion 11

is integrally connected, and 12 indicates the lower blade, with which the upper hand portion 13 is integrally connected, the said blades being pivotally connected by a suitable pivot 14 in substantially the manner common in tailor's shears.

In applying the words "upper" and "lower" to the loops for receiving the thumb and fingers and to the cutting-blades 10 12 the supposition is that the shears are in the ordinary positions for cutting, the blade 12 lying on the cutting board or table and the upper hand portion or loop 13, through which the thumb is inserted, lying above the loop 11, the pressure of the ball or base of the thumb being exerted on the lower parts of the upper loop, to which lower parts the present improvements particularly relate.

The lower hand portion 11 is similar in construction to the one shown in the prior patent above referred to; but the upper hand portion 13 contains the improvements to which the present invention relates. Of the said upper hand portion, 15 indicates the curvilinear upper part, which lies in practice at the top of the base portion of the thumb, and 16 is the lower part or member, which lies on the inner or lower side of the thumb and palm of the hand when the latter presses upon the lever-like blade member 12 13 to effect a cutting of the cloth.

In the prior invention above referred to the part 16 presented on the upper side a regularly-convex surface upon which the operator pressed his hand, and while this presented a large superficial area, distributing the pressure over a large surface of the palm of the hand, yet, because of its construction, it tended, more or less, to tire the hand after considerable use. In the present construction a concavity 17 is formed on the upper surface, adapted to receive the ball of the thumb, and laterally out from said concavity is formed a ridge 18, from the outer side of which the said lower part or member 16 is inclined downward to form a flange 19, the lower part of the upper hand portion 13 thus being given a decided angular form, the angle of which on the upper side is rounded to enter the groove or

recess in the palm of the hand extending downward or away from the middle portion of the wrist. Thus constructed the pressure is distributed more perfectly over the palm of the hand and serves to prevent the hand from becoming painful because of severe pressure being brought to bear at points on the hand distant from one another. The downwardly-extending flange 19 is also slightly concavous, as at 20, to receive the convex portion of the palm lying opposite the ball of the thumb. The lower part or member 16 of the upper handle extends forward and transversely, so as to cross beneath the upper part 15, as heretofore, so that the thumb for substantially its full length will press downward on a bearing provided therefor. The increased effective area thus secured enables one to arrange the pivot 14 nearer to the handle, and thus to open the blades more fully preparatory to cutting, and yet in the cutting operation perform such operation without tiring the hand, notwithstanding the increased fulcrumal resistance or leverage.

25 In addition to the other advantages recited the ridge 18 tends to prevent the hand from slipping on the surface of the member 16, as will be evident.

Having thus described the invention, what is claimed as new is—

1. The improved shears herein described comprising blades with hand-loops connected therewith, the upper loop being concaved on the upper face of the lower member, where it receives the pressure of the ball or base of the thumb, said lower member of the upper loop being bent downward, the ridge or bend being adapted to enter the groove or recess at the center of the rear part of the palm of the hand, substantially as set forth.

2. In a shears, the looped blade herein described having the lower member of the loop concavous on its upper face and at the laterally outer edge of the concavous surface having a downwardly-inclined flange which is concaved on its upper surface.

In testimony that I claim the foregoing I have hereunto set my hand this 20th day of June, 1903.

VIRGINIA HEINISCH,
Administratrix of the estate of Henry C. Heinisch, deceased.

Witnesses:

CHARLES H. PELL,
C. B. PITNEY.