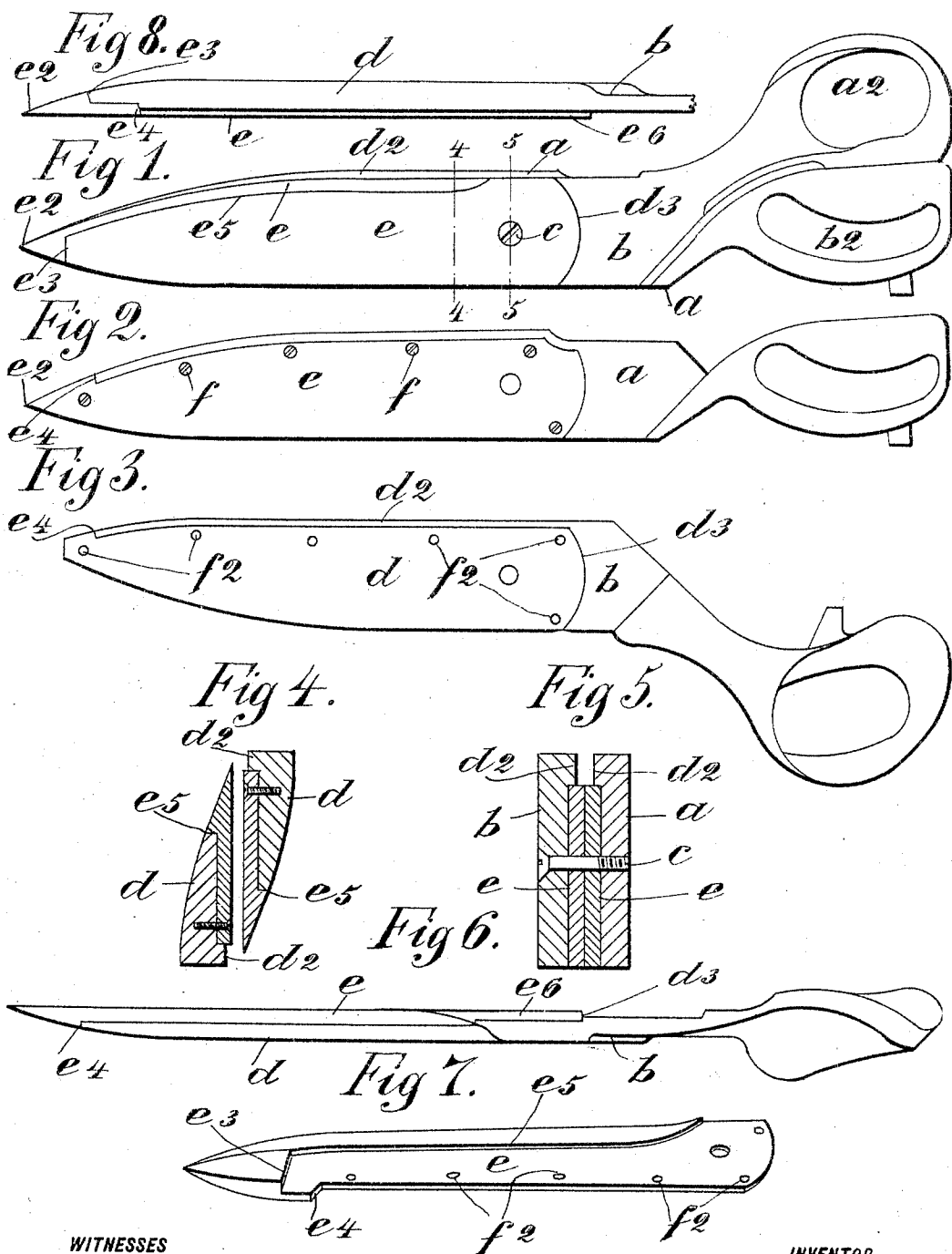


J. POLKOWSKI.

SHEARS.

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SHEARS.

SPECIFICATION forming part of Letters Patent No. 784,069 dated March 7, 1905.

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To all whom it may concern:

Be it known that I, JOHN POLKOWSKI, a citizen of the United States, residing at New York, in the county of New York and State of New York, have invented certain new and useful Improvements in Shears, of which the following is a specification, such as will enable those skilled in the art to which it appertains to make and use the same.

This invention relates to shears, and particularly to what are known as "tailors' shears;" and the object thereof is to provide a pair of shears of this class which are stronger and more durable than such shears as usually made and the blades of which are provided with supplemental cutting members, which may be renewed whenever necessary; and with this and other objects in view the invention consists in a pair of shears constructed as hereinafter described and claimed.

The invention is fully disclosed in the following specification, of which the accompanying drawings form a part, in which the separate parts of my improvement are designated by suitable reference characters in each of the views, in which—

Figure 1 is a left-hand side view of a pair of tailors' shears made according to my invention; Fig. 2, an inside view of the outer or right-hand blade of the shears; Fig. 3, a similar view of the other blade and showing a part thereof detached; Fig. 4, a section on the line 4 4 of Fig. 1; Fig. 5, a section on the line 5 5 of Fig. 1; Fig. 6, an edge view of the blade member shown in Fig. 2; Fig. 7, a perspective view of a supplemental blade member which I employ; and Fig. 8, a back view of one of the blade members, the handle part being broken off.

In the practice of my invention I provide a pair of shears of the class specified and of the usual general form and composed of two parts *a* and *b*, having the usual handle portions *a'* and *b'* and pivoted together at *c* in the usual manner. The blade portions of each of the parts *a* and *b* consist of a body portion *d* and a supplemental or cutting blade portion *e*, the latter being composed of fine steel, while the body portions *d* of the blades are cast inte-

grally with the parts *a* and *b* of the separate parts of the shears.

The body portions *d* of the separate parts of the shear-blades are each provided with a longitudinal back, rib, or flange *d'*, and between the handle parts *a'* and *b'* and the pivotal point *c* said body portions of the separate shear-blades are each provided with a transverse shoulder *d''*, and the cutting portions *e* of the blades are set into the space or spaces formed by the ribs or flanges *d'* and the shoulder or shoulders *d''*, and the said cutting portions *e* of the blades are secured to the body portions *d* thereof by screws *f*, which are passed through holes *f'*, and any desired number of said screws may be employed. The cutting portions *e* of the separate blade members are also provided with points *e'*, which project beyond the body portions *d* of said blade members, as clearly shown, and said projecting points *e'* are provided on their outer sides with transverse shoulders *e''*, against which the ends of the body portions *d* abut, and with other shoulders or projections *e'''*, against which the flanges or ribs *d'* of the body portions of the blade members abut. The cutting-blade members *e* are also provided near the cutting edge thereof and on the same side as the shoulder or projections *e'* with longitudinal shoulders *e'''*, against which the corresponding edges of the body portions *d* of the blade members abut, the object of this construction being to facilitate the grinding or sharpening of the cutting-blade members without grinding or interfering with the body portions of said blade members, and said cutting-blade members *e* are preferably formed of such thickness that they project beyond the ribs or flanges *d'* and the shoulders *d''*, as clearly shown at *e'* in Figs. 6 and 8. Figs. 4 and 5 of the accompanying drawings are on a slightly-enlarged scale, and the separate blade members are shown slightly separated in Fig. 4.

It will be apparent that the cutting-blade members *e* may be substituted by new ones whenever they become sufficiently worn, and a practically new pair of shears may thus be provided at a comparatively small expense.

By making the cutting-blade members *e* thicker than the recesses in the body portions of the blade members in which they are placed the said body portions of the blade members do not come in contact in the operation of the shears, and by extending the cutting-blade members *e* in the direction of the handles *a*² and *b*² and passing the pivot pin or screw *c* therethrough the blades of the shears are strengthened, as will be readily understood.

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

1. A pair of shears, the blades of which are composed of a main body portion and a supplemental cutting portion, the supplemental cutting portions being countersunk in the main body portions and being provided adjacent to the cutting edges thereof with longitudinal shoulders against which the edges of the main body portions abut, said supplemental cutting portions being only partially countersunk in the main body portion, and being provided with pointed ends which project beyond the main body portions, and being also projected in the direction of the handles beyond the point at which the pivotal connection of the blades is made, substantially as shown and described.

tion of the blades is made, substantially as shown and described.

2. A pair of shears, the blades of which are composed of main body portions and supplemental longitudinal cutting portions the supplemental cutting portions being partially countersunk in the main body portions and being provided adjacent to the cutting edges thereof with longitudinal shoulders against which the edges of the main body portions abut, said cutting portions being provided with pointed ends which project beyond the main body portions and having transverse shoulders against which the ends of the body portions abut, and said cutting portions being also projected in the direction of the handles beyond the point at which the pivotal connection of the blades is made, substantially as shown and described.

In testimony that I claim the foregoing as my invention I have signed my name, in presence of the subscribing witnesses, this 25th day of June, 1904.

JOHN POLKOWSKI.

Witnesses:

C. J. KLEIN,

C. E. MULREANY.