No. 743,658. PATENTED NOV. 10, 1903.

J. POLKOWSKI.

TAILOR'S SHEARS.

APPLICATION FILED MAR. 2, 1903.

NO MODEL.

Fig. 1.

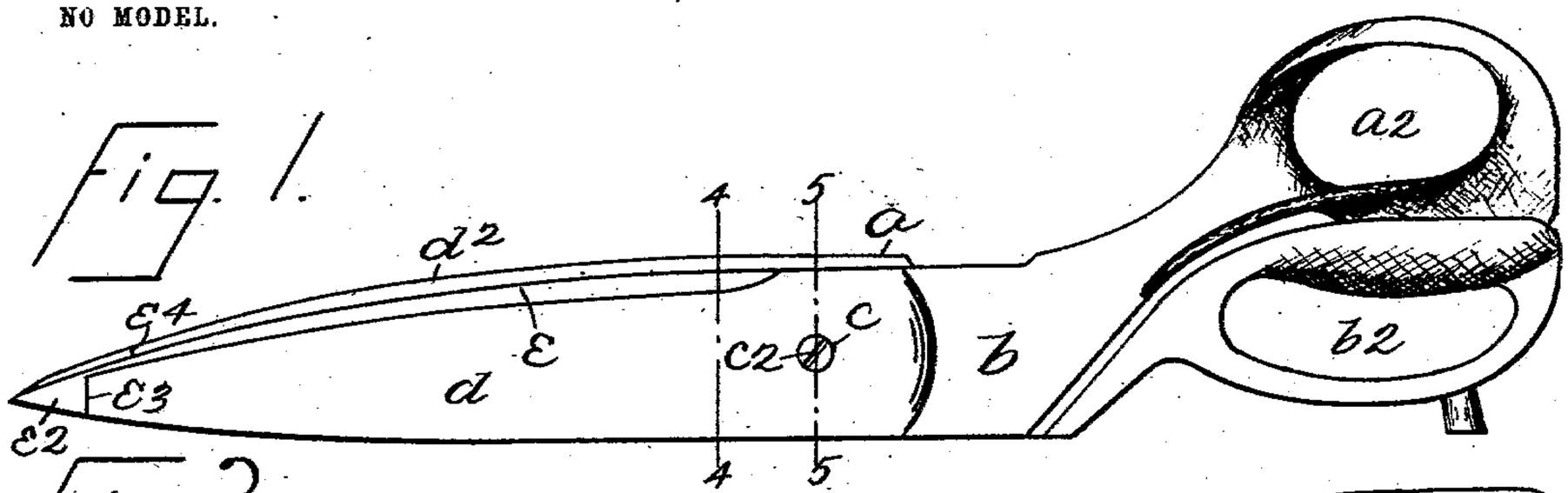



Fig. 2

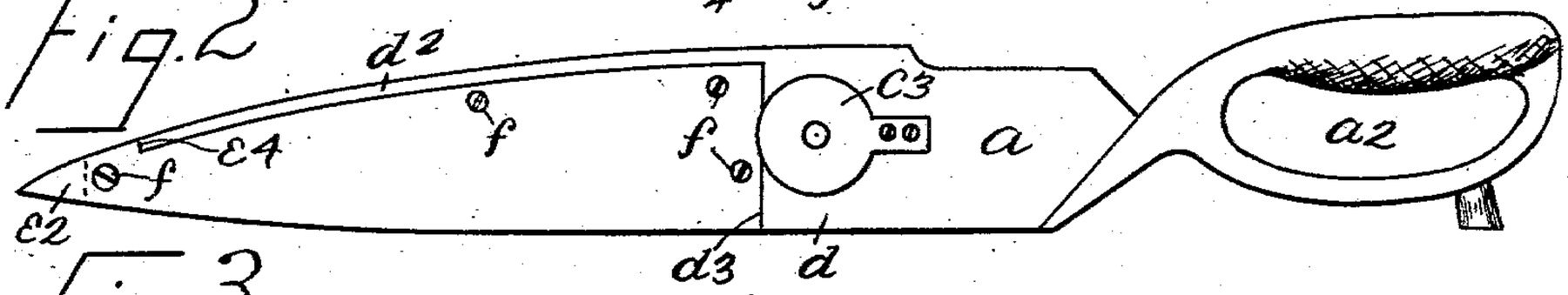



Fig. 3

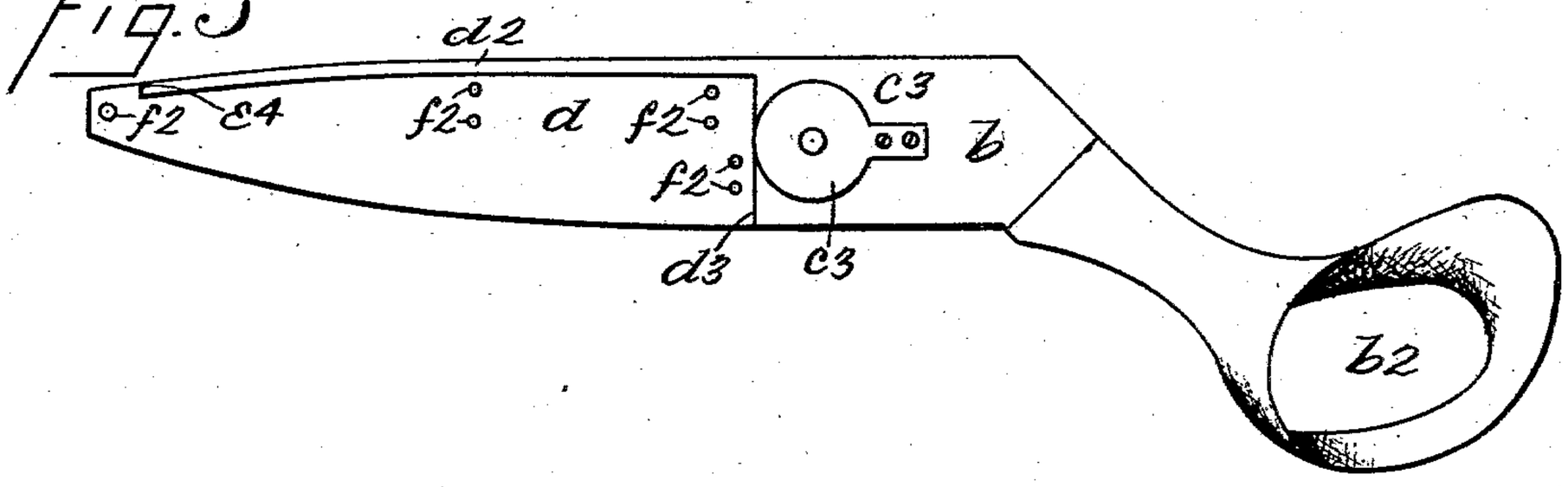



Fig. 4

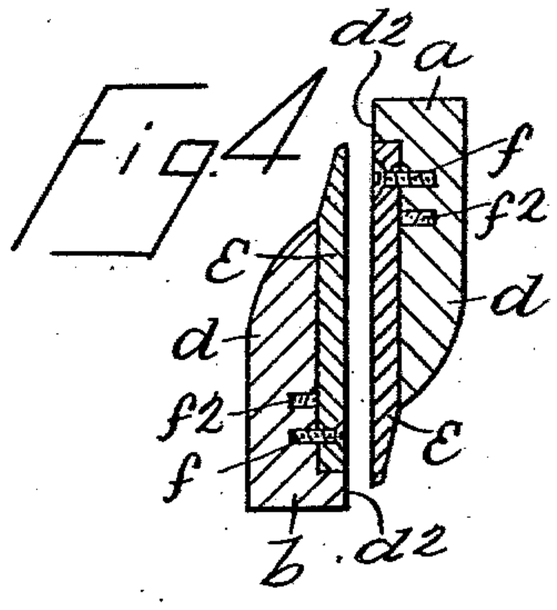
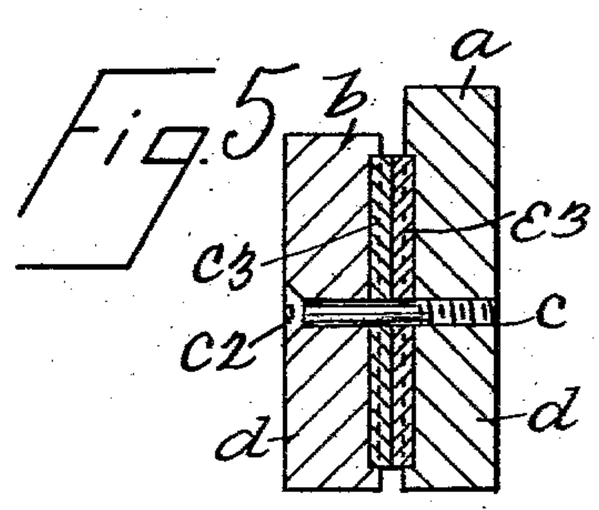



Fig. 5



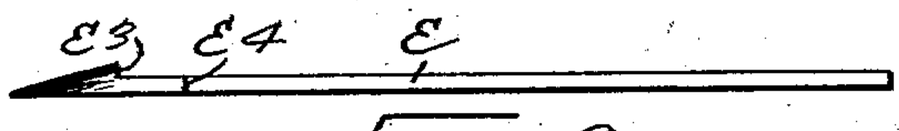




Fig. 6

WITNESSES

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No. 743,658. Patented November 10, 1903.

# UNITED STATES PATENT OFFICE.

JOHN POLKOWSKI, OF NEW YORK, N. Y.

## TAILOR'S SHEARS.

SPECIFICATION forming part of Letters Patent No. 743,658, dated November 10, 1903.

Application filed March 2, 1903. Serial No. 145,636. (No model.)

*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 Tailors' 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.

The object of this invention is to provide an improvement in tailors' shears whereby the life of the shears or the length of a period during which a pair of shears may be used and whereby the said shears are made more durable and more convenient of operation; and with these and other objects in view the invention consists in a pair of tailors' 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, and in which—

Figure 1 is a side view of a pair of tailors' shears made according to my invention; Fig. 2, an inside view of one of the blades; 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, the blades of the shears being slightly separated; Fig. 5, a section on the line 5 5 of Fig. 1, and Fig. 6 a back view of a supplemental blade member which I employ.

In the practice of my invention I provide a pair of shears of the usual general form and composed of two parts $a$ and $b$, and these parts are provided with the usual handle portions $a^2$ and $b^2$. The parts $a$ and $b$ are connected at $c$ in the usual manner by means of a screw $c^2$, and the adjacent faces of said parts are each provided with a metal plate or disk $c^3$, through which the screw $c^2$ passes and which are designed to facilitate the grinding of the blades without injury to the body portions of said blades through which the pivotal screw $c$ is passed. The blade portion of each of the parts $a$ and $b$ consists of a body portion $d$ and a supplemental or cutting blade portion $e$, the latter being composed of fine steel in the usual manner, while the body portions $d$ of the blades are cast integrally with the body portions $a$ 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 flange $d^2$ and adjacent to the pivotal point $c^2$ with a transverse shoulder $d^3$, and the cutting portions $e$ of the blades are set into the space or spaces formed by the flange or flanges $d^2$ and the shoulder or shoulders $d^3$, and the said cutting portions $e$ are secured to the body portions $d$ of the blade by screws $f$, and the said body portions $d$ are provided with a plurality of holes $f^2$ for each of the screws $f$ and which are transversely arranged, so that the cutting portions $e$ of said blades may be adjusted transversely of the body portions $d$ as the said cutting portions are worn or wear away in the operation of the shears, and at the point of each blade member the supplemental members are pivoted to the body members by a single pivot or screw $f^3$. The cutting portions $e$ of the blades are also provided with projecting points $e^2$, which project beyond the body portions $d$, as clearly shown, and said projecting points $e^2$ are provided on their outer sides with shoulders $e^3$, against which the ends of the body portions $d$ abut, and with other shoulders or projections $e^4$, against which the ends of the flanges $d^2$ abut, and in the transverse adjustment of the cutting members they turn on the pivot-pins $f^3$, and thus hold the shoulders or projections $e^3$ and $e^4$ in proper position with reference to the parts against which they abut.

The disks or plates $c^3$ may be made of hard steel and prevent the separate parts $a$ and $b$ of the shears from wearing too rapidly at the pivotal connection-point and also protect said body portions in the operation of grinding the inner sides of the blades, and the projecting portions $e^2$ of the cutting members $e$ of the blades also protect the points of said blades and facilitate the operation of the shears, as will be readily understood.

A pair of shears constructed in this manner may be provided with new cutting-blades or supplemental members whenever desired, and by adjusting the cutting members transversely, as described, the said members may be used much longer than would be possible with the usual forms of construction.

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 provided with supplemental cutting members connected with the main portions of said members and adjustable transversely thereof, the main portions of said blades being also provided at the backs thereof with longitudinal flanges and the ends of the cutting members being pointed, substantially as shown and described.

2. A supplemental cutting-blade for shears which is pivoted at the pointed end and the front side of which is provided with a transverse shoulder or projection at said end, and the back thereof with a similar shoulder or projection, substantially as shown and described.

3. A pair of shears, the blades of which are provided with supplemental cutting members or plates arranged longitudinally thereof and transversely adjustable at one end, the pointed ends of the supplemental cutting members being projected and provided at the back with a shoulder or projection and at the outer or front side with a shoulder or projection which abut against corresponding parts of the body portions of said blades, substantially as shown and described.

4. A pair of shears, the blades of which are provided with supplemental cutting members or plates arranged longitudinally thereof and transversely adjustable, the pointed ends of the supplemental cutting members being projected and provided at the back and at the outer side with shoulders or projections which abut against the body portions of said blades, said supplemental cutting members being also pivoted to the body portions of the blades at the pointed ends thereof, substantially as shown and described.

5. A pair of shears, the blades of which consist of body portions and supplemental cutting members which project beyond the pointed ends of the body portions and which are transversely adjustable, the cutting members being pivoted to the body portions at their pointed ends and provided at their outer side and at the back thereof with transverse shoulders or projections which abut against corresponding parts of the body portions of said blades, substantially as shown and described.

6. A supplemental blade member for shears, said member being pointed at one end and provided at the outer side near the pointed end with a transverse shoulder or projection and at the back thereof with a transverse shoulder, 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 28th day of February, 1903.

JOHN POLKOWSKI.

Witnesses:
F. A. STEWART,
J. C. LARSEN.