

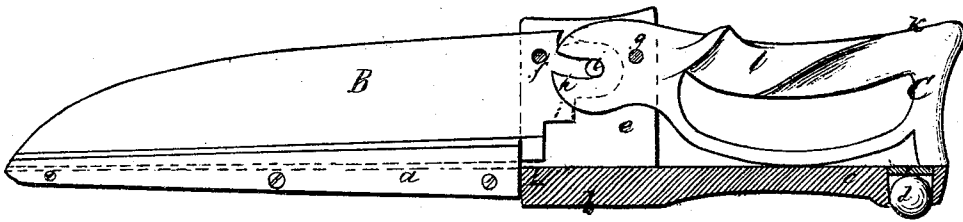
*F. Ulrich,*

*Shears.*

*No. 100,218.*

*Patented Feb. 22. 1870.*

*Fig. 1.*



*Fig. 2.*



*Witnesses.*  
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# United States Patent Office.

FRIEDRICH ULRICH, OF BROOKLYN, E. D., NEW YORK.

Letters Patent No. 100,218, dated February 22, 1870.

## IMPROVEMENT IN SHEARS.

The Schedule referred to in these Letters Patent and making part of the same.

To all whom it may concern:

Be it known that I, FRIEDRICH ULRICH, of Brooklyn, E. D., in the county of Kings, and State of New York, have invented a new and useful Improvement in Shears; and I do hereby declare the following to be a full, clear, and exact description thereof, which will enable those skilled in the art to make and use the same, reference being had to the accompanying drawing forming part of this specification, in which drawing—

Figure 1 represents a sectional side elevation of this invention.

Figure 2 is a transverse section of the same.

Similar letters indicate corresponding parts.

This invention relates to shears which are intended particularly for tailors' use.

The invention consists in the arrangement of a forked arm projecting from the movable handle and catching over a pin secured in an arm extending from the movable jaw of the shears, both the movable handle and the movable jaw having their bearings in pins secured in cheek-pieces, which rise from the stationary jaw in such a manner, that while the stationary jaw rests on the table or platform, on which the cutting operation is performed, a comparatively short motion of the movable handle throws the movable jaw wide open, and that, in depressing the movable handle, the full power of the arm can be brought into action and the cutting operation is thereby materially facilitated. The movable handle is provided with a palm-rest and with a thumb-groove, so as to adapt the same to the hand and render the operation of the shears as convenient as possible. The stationary jaw is provided with a face, against which a cutting blade is screwed in such a manner that said cutting blade can be taken off for the purpose of grinding, and that the same, by grinding or filing off the face of the stationary jaw, can always be adjusted in the proper relation to the movable jaw or blade. The stationary handle is provided with a roller-caster for the purpose of facilitating the motion of the shears in cutting.

In the drawing the letter A designates the stationary jaw, which is provided with a flat face, against which the cutting-blade *a* is secured by means of screws, so that said blade can be readily removed for the purpose of grinding, and that the same can always be set up against the movable blade simply by filing or grinding off the face of the stationary jaw.

This arrangement of parts is very important, because, if the movable cutting-blade is ground off on its

face, the relative position of the two blades will be disturbed, and they have to be readjusted in order to enable the shears to cut properly.

Said stationary jaw is provided with a supporting base, *b*, and with a stationary handle, *c*, which is furnished with a roller-caster, *d*, so that the shears can be moved and turned with the least possible friction on the platform or table on which the cutting is to be performed. Said roller rests in a cavity in the end of the handle *c*, being retained therein by a flat plate, or in any other desirable manner.

From the base *b* rise two cheek-pieces, *e*, which form the bearings for the fulcrum-pin *f* of the movable jaw B, and for the fulcrum-pin *g* of the movable handle C. Said handle is provided at its inner end with a forked arm, *h*, which straddles a pin, *i*, secured in an arm, *j*, which projects from the movable jaw, as shown in the drawing.

The handle is so shaped that it forms a palm-rest, *k*, and it is provided with a groove, *l*, to receive the thumb.

By these means the movable jaw can be thrown wide open with a comparatively short motion of the movable handle, and in depressing said handle the full power of the arm can be exerted without danger of injuring the palm or other parts of the hand, the shears can be readily moved in either direction, and four or more thicknesses of cloth can be cut simultaneously with comparatively little exertion.

What I claim as new, and desire to secure by Letters Patent, is—

1. The movable handle C, formed at one end with a palm-rest and thumb-groove, and at the other with an open slot forming a fork, in combination with a pin on the cutting-blade, substantially as set forth.

2. The stationary jaw A, having secured to it the cutting-blade *a*, and continued into a supporting base *b*, and stationary handle *c*, in connection with the cutting-blade B, and handle C, substantially as and for the purpose described.

3. The roller-caster *d* in the stationary handle *c* of shears, substantially as set forth.

4. The palm-rest *k* and the thumb-groove *l*, in the handle C, substantially as described.

This specification signed by me this 24th day of December, 1869.

FRIEDRICH ULRICH.

Witnesses:

W. HAUFF,

E. F. KASTENHUBER.