

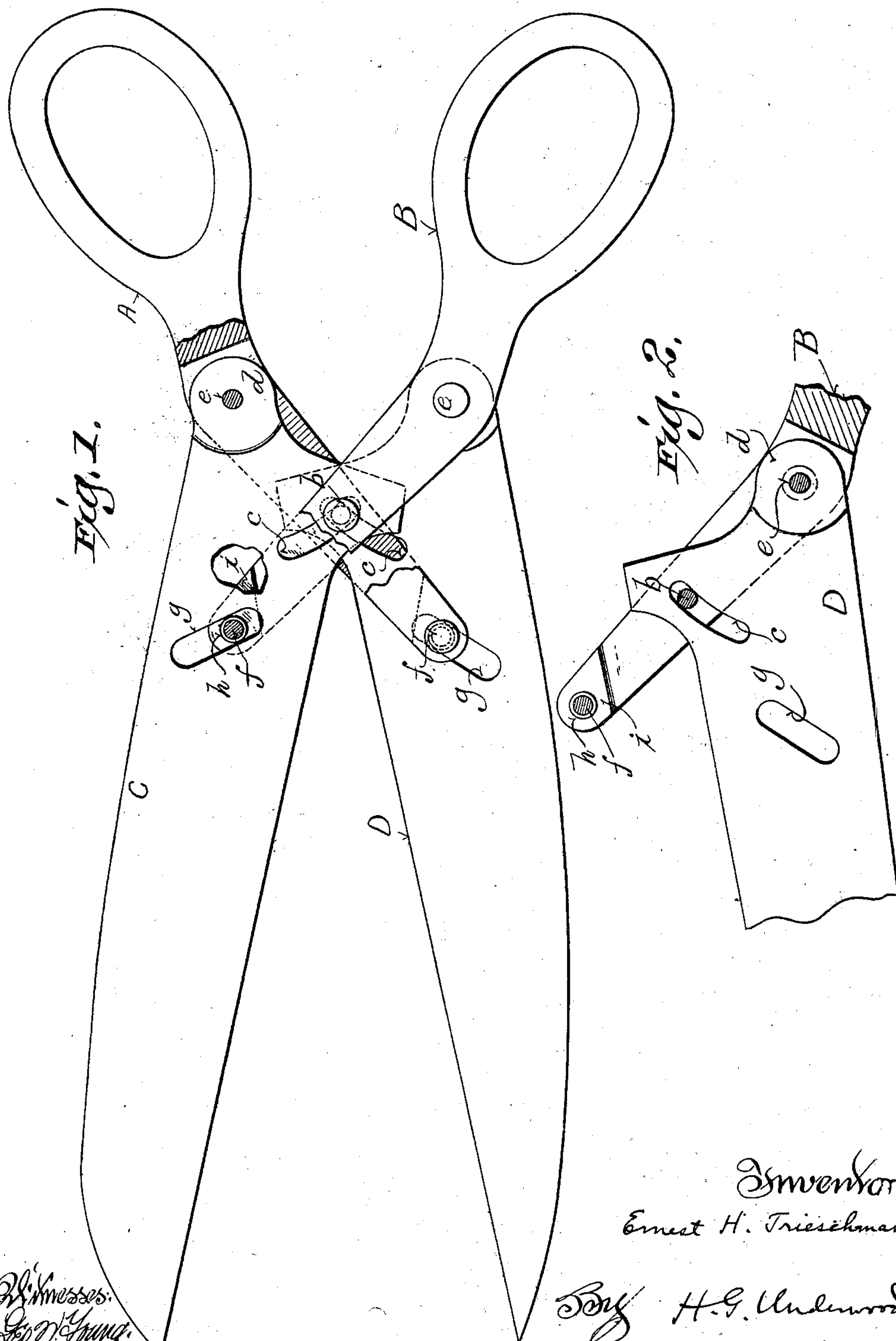
No. 639,468.

Patented Dec. 19, 1899.

E. H. TRIESCHMANN.  
HAND SHEARS.

(Application filed May 27, 1899.)

(No Model.)



Witnesses:  
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# UNITED STATES PATENT OFFICE.

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## HAND-SHEARS.

SPECIFICATION forming part of Letters Patent No. 639,468, dated December 19, 1899.

Application filed May 27, 1899. Serial No. 718,469. (No model.)

*To all whom it may concern:*

Be it known that I, ERNEST H. TRIESCHMANN, a citizen of the United States, and a resident of Milwaukee, in the county of Milwaukee and State of Wisconsin, have invented certain new and useful Improvements in Hand-Shears; and I do hereby declare that the following is a full, clear, and exact description thereof.

My invention has for its object to provide scissor-pattern hand-shears easier of operation and capable of longer cut in proportion to length than those commonly employed.

Therefore said invention consists in certain peculiarities of construction and combination of parts hereinafter particularly set forth with reference to the accompanying drawings and subsequently claimed.

Figure 1 of the drawings represents a plan view of broken hand-shears in accordance with my invention, and Fig. 2 a detail partly-sectional view of a portion of said shears.

Referring by letter to the drawings, A B represent the handles, and CD the blades, of my improved hand-shears. Forked forward portions of the handles have cross engagement with each other on a pivot-bolt or rivet *b*, that extends through a curved slot *c* in each of the blades. Each blade is widened at its rear to provide for the curved slot, and an offset tang *d* of the blade has loose engagement with a recess in a handle, back of the fork of same. A pivot-bolt or rivet *e* engages each blade-tang and the adjacent handle. A slide in the form of a rivet *f* engages the fork branches of each handle and a play-slot *g* in the blade that has its tang in pivotal connection with the other handle, the slide being forward of the crossing of the handle-forks. As herein shown, an antifriction-sleeve *h* may be arranged on each slide *f* in the corresponding play-slot *g*, and one branch of each handle-fork is shown provided with a spacing-shoulder *i* in opposition to the adjacent blade.

The angle of the play-slots *g* may be varied from what is herein shown, and if said slots be more lengthwise of the blades the shears will have less opening than is shown in Fig. 1, although the separation of the blades back to the crossing of the handle-forks will be more rapid than otherwise.

From the foregoing it will be understood

that shears of any length of blade made in accordance with my invention may be readily spread to have a greater length of cut than is possible with single-pivot shears, and the degree of opening between blades may be more or less in proportion to the angle of the play-slots *g*. Hence my improved shears may be organized with especial reference to cutting of different kinds of material. It is also to be observed that the widest portion of each blade is close against the other blade as a brace to prevent springing of the same incidental to resistance of material being cut.

While I have shown a preferred form of my improved hand-shears, the details of construction may be somewhat varied without departure from my invention—as, for instance, it would be practical to have the slides *f* on the blades and the play-slots *g* in the fork branches of the handles.

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

1. The handles having forward branches that are crossed on a pivot, the blades, each of which has pivotal connection with a handle back of the crossing-pivot but is provided with a curved slot engaged by said pivot, and a slide and play-slot for same constituting a connection between each blade and forward end of the branch pertaining to the handle other than that to which said blade is pivoted.

2. The handles having forward branches that are crossed on a pivot, the blades, each of which is widened at the rear and provided with an offset tang having pivotal connection with a handle back of the crossing-pivot, said blade being also provided with a curved slot engaged by said pivot, and a slide and play-slot for the same constituting a connection between each blade and forward end of the branch pertaining to the handle other than that with which said blade has pivotal connection.

In testimony that I claim the foregoing I have hereunto set my hand, at Milwaukee, in the county of Milwaukee and State of Wisconsin, in the presence of two witnesses.

ERNEST H. TRIESCHMANN.

Witnesses:

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