

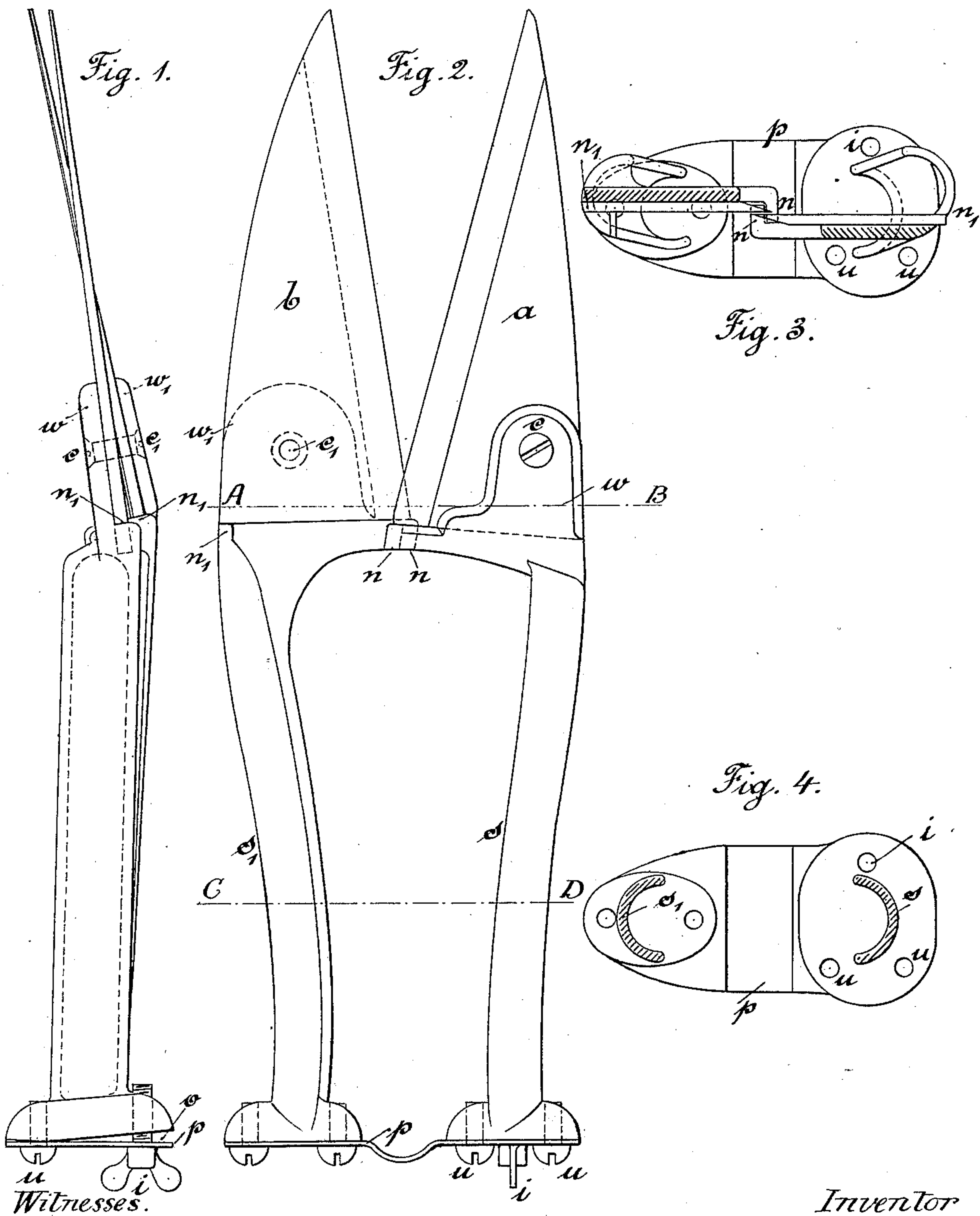
(No Model.)

F. FRIELINGHAUS.

SHEEP SHEARS.

No. 359,252.

Patented Mar. 15, 1887.



Witnesses.

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UNITED STATES PATENT OFFICE.

FERDINAND FRIELINGHAUS, OF VOERDE, WESTPHALIA, GERMANY.

SHEEP-SHEARS.

SPECIFICATION forming part of Letters Patent No. 359,252, dated March 15, 1887.

Application filed September 21, 1886. Serial No. 214,197. (No model.)

To all whom it may concern:

Be it known that I, FERDINAND FRIELINGHAUS, a subject of the German Emperor, and a resident of Voerde, Westphalia, Germany, have invented a new and useful Improvement in Wool or Sheep Shears, of which the following is a specification.

This invention relates to shears for shearing sheep; and it consists in an improvement whereby the shears or knives may be pressed onto each other with more or less force and the cutting power of the shears thereby considerably augmented.

Referring to the accompanying drawings, Figure 1 is a side view, and Fig. 2 is a front view, of shears fitted with my improvement. Fig. 3 is a section along line A B; Fig. 4, a section along line C D of Fig. 2.

The improvement consists in adjusting the torsion of the spring *p* so as to press the blades *a b* with more or less force against each other, and in the method and means of adjusting such torsion. The shanks *s s'* end above in supporting-plates *ww'*, carrying the projecting shoulders *n' n n' n*, which serve as supports for the blades *b a*, secured by screws *c c'* to the plates *w w'*. On or near the lower end of each of the shanks is formed a face for the reception of the ends of the flat spring *p*. The face of one of the shanks is inclined at an angle to

the plane in which the blades of the shears move, the face of the other shank being inclined at a greater angle thereto. On these faces the spring *p* is attached, the latter being firmly fixed on one of the said faces and adapted to be set with reference to the other face. This latter is preferably provided with a surface lying substantially in the same plane as the first face, and to this said surface the spring *p* is firmly riveted or otherwise fixed at the edge, as shown. The thumb-screw *i* then serves to adjust the tension of the spring *p*.

What I claim is—

In sheep-shears, the combination, with a blade-shank having a face or end inclined to the plane in which the shanks operate, and a second blade-shank having a face or end inclined at a greater angle to said plane, of a flat spring, *p*, secured to one face or end and adjustably secured to the other face or end, with a thumb-screw, *i*, substantially as described, and for the purpose set forth.

In testimony whereof I have signed this specification in the presence of two subscribing witnesses.

FERDINAND FRIELINGHAUS.

Witnesses:

JULIUS JÜNGERMANN,
ED. SCHILKEN.