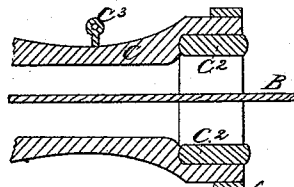
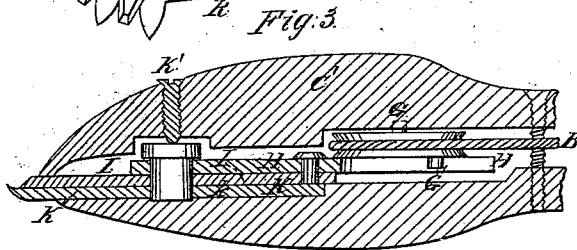
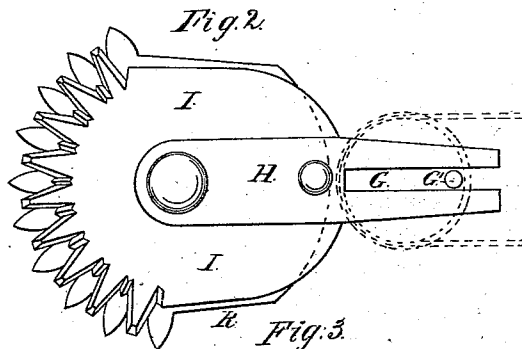
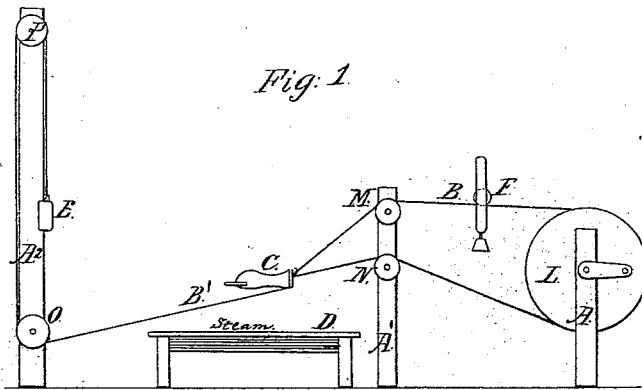


G. HARSIN & C. T. SANDERS.
MACHINE FOR SHEARING SHEEP.

No. 82,404.

Patented Sept. 22, 1868.



Witnesses.
Thos. L. Baylis
Chas. F. Clausen.

Inventors.
Geo. Harsin
C. T. Sanders.
By
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their attys.

United States Patent Office.

GEORGE HARSIN AND C. T. SANDERS, OF KIRKVILLE, IOWA.

Letters Patent No. 82,404, dated September 22, 1868.

IMPROVEMENT IN MACHINES FOR SHEARING SHEEP.

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

TO ALL WHOM IT MAY CONCERN:

Be it known that we, GEORGE HARSIN and C. T. SANDERS, of Kirkville, in the county of Wapello, and State of Iowa, have invented a new and useful Improvement in Machines for Shearing Sheep; and we do hereby declare that the following is a full, clear, and exact description of the same, reference being had to the annexed drawings, making part of this specification, in which—

Figure 1 is a side elevation.

Figure 2 is an elevation of the shears.

Figure 3 is a longitudinal section of the point of the stock and shears; and

Figure 4 a similar section of the butt of the stock.

The same letters in all the figures are used to indicate identical parts.

In the annexed drawings, A, A¹, and A² are the posts, to which the shearing-mechanism is attached by cords B and B'.

C is the cutter, and D a table, upon which the sheep to be sheared is placed, the sheep being rested against the knee of the operator, whose foot should be placed on the table, while with his right hand he directs the cutter, with the left rolling back the fleeces.

The cutter is constructed as follows:

C¹ is a chambered wooden or metallic stock, constructed to receive the shearing-mechanism, which is driven by the band B, which enters the stock through a glass thimble placed in the end thereof to prevent friction. This band passes around a pulley, G, pivoted to the stock, and having an eccentric wrist-pin, G', which is received in a slot in the end of the arm H, attached to an oscillating cutter, I, constructed, as represented, with knives shaped as shown, and sharpened upon the edges. This oscillating cutter is pivoted to the stationary cutter K, constructed with the same kind of projections and cutting-edges, the two sets of cutters acting upon the same principle as the knives of a harvester, forming, with the oscillation of the blade I, shears to cut the fleece as the point is carried along the body of the sheep.

The set-screw I is intended to keep the blades in close contact.

The cutter is attached to the cord B, fastened to the eye-bolt C². The oscillating knife is driven by the band or cord B, which passes over the driving-pulley L, which is turned by hand or other power. This band is carried over the pulley M, and then through the thimble C³, and around the pulley G within the stock, and then back through the thimble and over the pulley N to the driving-wheel. The cord B' attached to the stock is carried under the pulley O, thence up over the pulley P, and has a weight, E, attached to the loose end thereof. As the cutter is moved, this cord maintains the tension of the belt, on which is placed a tension-weight, F, fastened to a running sheave, which, when the belt is slacked, maintains it tautly on the pulleys, so that the cutter may be moved as far as may be necessary without affecting the movement of the knife I.

What we claim as our invention, and desire to secure by Letters Patent, is—

1. In combination with the cutter C, the belt B and cord B', running over pulleys, and kept taut by weights, arranged to operate substantially as and for the purpose set forth.
2. The combination, in a sheep-shearing machine, of a stationary blade, K, and oscillating blade I, constructed and arranged, in relation to one another, substantially as set forth.
3. The arrangement of the pulley G, having a wrist-pin, G', slotted arm H, oscillating cutter I, and stationary knife K, within the hollow case C¹, substantially as and for the purpose set forth.

In testimony whereof, we have signed our names to this specification in the presence of two subscribing witnesses.

GEORGE HARSIN,
C. T. SANDERS.

Witnesses:

J. N. BARKER,
GEO. W. CHILDRRESS.