(No Model.)

H. N. JOSLYN.

IMPLEMENT FOR DEHORNING CATTLE.

No. 456,575. Patented July 28, 1891.

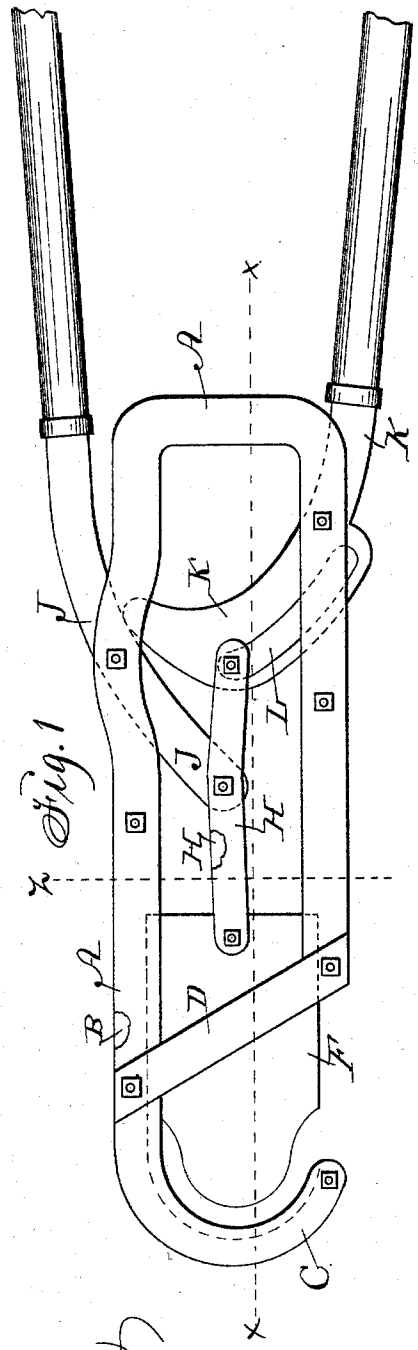

Fig. 1

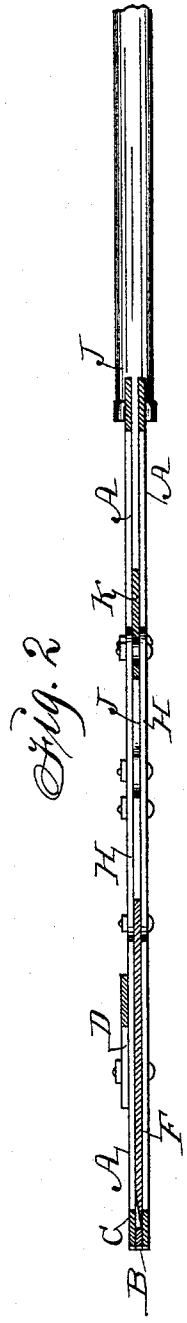

Fig. 2

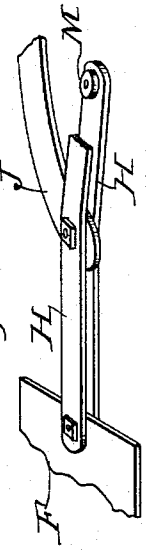

Fig. 3

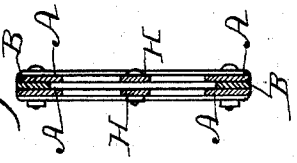

Fig. 4

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UNITED STATES PATENT OFFICE.

HIRAM N. JOSLYN, OF DES MOINES, IOWA.

IMPLEMENT FOR DEHORNING CATTLE.

SPECIFICATION forming part of Letters Patent No. 456,575, dated July 28, 1891.

Application filed April 13, 1891. Serial No. 388,785. (No model.)

To all whom it may concern:

Be it known that I, HIRAM N. JOSLYN, a citizen of the United States of America, and a resident of Des Moines, in the county of Polk and State of Iowa, have invented a new and useful Machine for Dehorning Cattle, of which the following is a specification.

The object of my invention is to provide improved means for dehorning cattle, which means will be cheap in construction and convenient and effective in operation.

My invention consists in the construction, arrangement, and combination of a frame adapted to engage an animal's horn, a knife adapted to slide in the frame, and means for operating the knife, as hereinafter set forth, pointed out in the claims, and illustrated in the accompanying drawings, in which—

Figure 1 is a plan view of my device, a portion of the handles being broken off. Fig. 2 is a sectional view on the line *x x* of Fig. 1. Fig. 3 is a perspective view of a portion of the device. Fig. 4 is a cross-sectional view on the line *z z* of Fig. 1.

A represents an elongated frame formed of two pieces of metal of the same shape placed parallel to each other and having strips of metal B interposed between them around the outer rim of one end and along each side thereof to hold the parts separate. A hook C is formed on one end of the frame A, and a space exists between the point of said hook and the adjacent side of the frame A to permit of the introduction therein of the horn which is to be removed. The inner side of the hook C is thus made to form a bearing to support the horn while it is being removed and to serve as an anvil, against which the knife advances to sever the horn. A strap D is fixed to and connects the end portion of the short side of the frame A with the long side thereof.

F represents a knife made of flat sheet-steel and having an edge on the forward end thereof, conforming in shape with the inner side of the hook C. This knife is mounted between the sections of the frame A and is adapted to slide longitudinally therein.

H represents two bent metal plates, which are identical in shape and are placed parallel with each other. The forward ends of these plates are pivoted to the knife F, one on each side of the rear end thereof. A curved lever J is pivoted on the long side of the frame A, and the forward end thereof is pivotally connected to the center of the plates H.

K represents a lever fulcrumed on the short side of the frame A in the rear of the plates. This lever has a broad flat head thereon, and a slot L is formed therein adapted to admit an anti-friction roller M on a bolt in the rear end of the plates H to travel therein.

In the practical use of my invention I inclose the horn to be removed within the hook C and then draw the levers together, thus advancing the knife along the frame and causing it to enter and sever the horn.

I claim as my invention—

1. The combination, with a suitable frame and a longitudinally-reciprocating knife mounted therein, of connecting-plates pivoted to said knife, a lever fulcrumed on the frame and pivoted to said plates, and a lever fulcrumed on said frame and having a sliding connection with said plates, as and for the purposes set forth.

2. A cattle-dehorning machine consisting of a frame having the two mating parallel sides A, the metal strip B, a hook C, a strap D, a knife F, parallel metal plates H to connect the knife with the levers, a lever J, and a lever K, constructed and combined substantially as shown and described, to operate in the manner set forth.

HIRAM N. JOSLYN.

Witnesses:

J. C. SWEET,

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