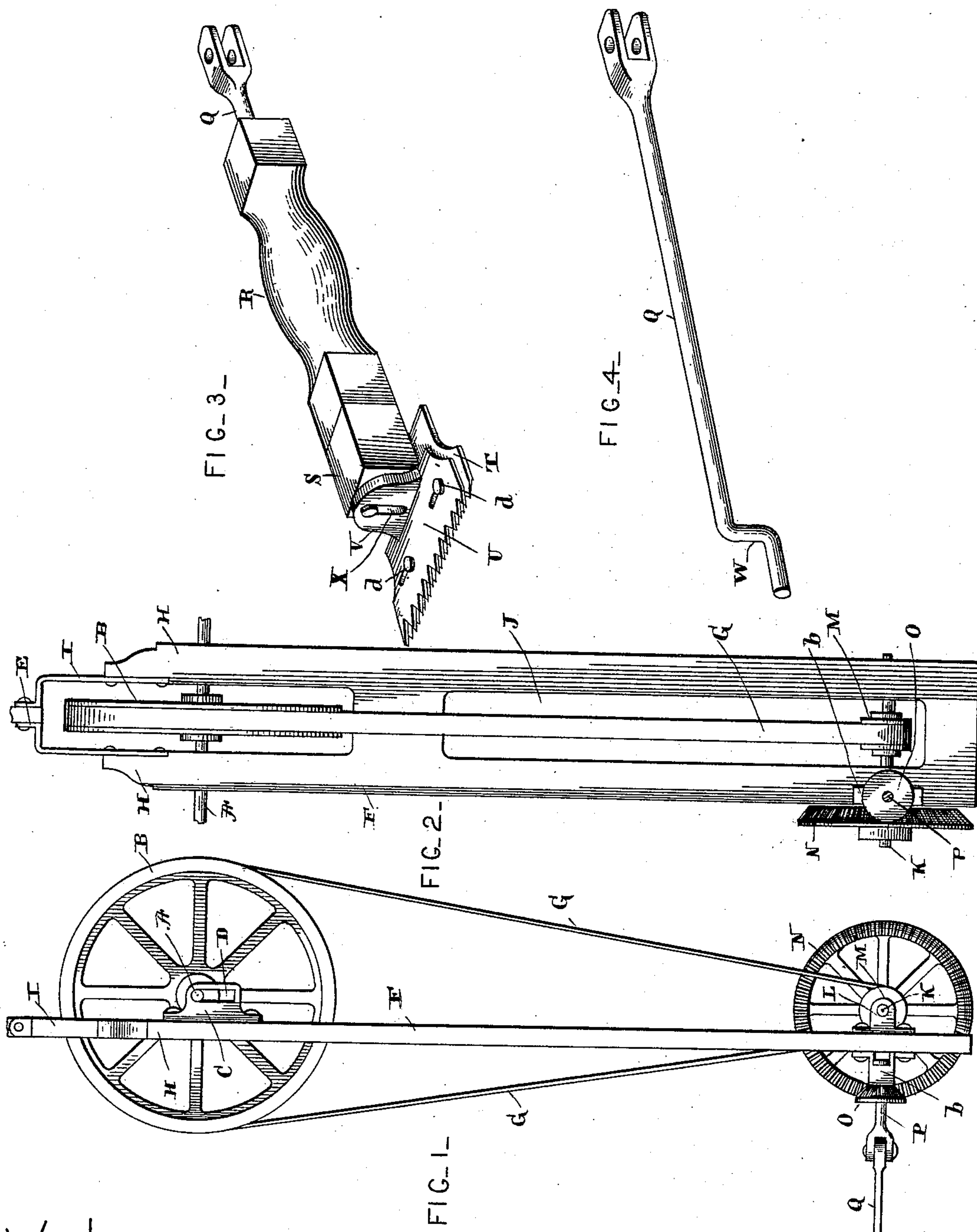


(No Model.)

H. S. DAGGETT.
ANIMAL SHEARS.

No. 483,904.

Patented Oct. 4, 1892.



WITNESSES.

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UNITED STATES PATENT OFFICE.

HENRY SMITH DAGGETT, OF MONUMENT, COLORADO.

ANIMAL-SHEARS.

SPECIFICATION forming part of Letters Patent No. 483,904, dated October 4, 1892.

Application filed November 12, 1891. Serial No. 411,680. (No model.)

To all whom it may concern:

Be it known that I, HENRY SMITH DAGGETT, of Monument, in the county of El Paso and State of Colorado, have invented certain new and useful Improvements in Motors for Clippers; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it pertains to make and use it, reference being had to the accompanying drawings, which form part of this specification.

My invention relates to an improvement in animal-shearing machines; and it consists in certain novel features of construction and in the combination and arrangement of parts, which will be fully described hereinafter, and particularly referred to in the claims.

The object of my invention is to produce an improved motor for clippers which is simple in construction and in the arrangement of parts, whereby great speed is obtained with the least possible power, and which is constructed to be stopped by raising the motor mechanism, whereby several clippers can be run from a single driving-shaft and each stopped and started independently of the others.

In the drawings, Figure 1 is an edge elevation of a hanger to which the mechanism of my motor is attached and suspended from a driving-shaft. Fig. 2 is a front elevation of the same. Fig. 3 is a detached enlarged perspective view of the clippers. Fig. 4 is a detached perspective view of the outer end of the clipper-shaft.

A indicates a main driving-shaft, which is provided with suitable stationary bearings and driven from any suitable source, and B a driving-pulley, which is secured thereto in any desired manner. An elongated box C, having a vertical slot D for the driving-shaft A to pass through, is secured to each side of the upper end of a hanger F, as shown in Fig. 2. The upper end of this hanger has a slot running to its end, which forms the two ends H, to which the elongated boxes C are secured by means of bolts or screws. The lower end of this hanger F is provided with a long vertical slot J, to opposite sides of which the boxes L are secured, and in these boxes a shaft K is journaled. Secured to one end of this shaft

K, outside of the hanger F, is a bevel gear-wheel N, and attached to the shaft between its ends, in the said vertical slot J, is a small pulley M. Supported against the opposite side of the hanger from the boxes L and adjacent to the bevel gear-wheel N is a boxing b, which supports and forms a bearing for the inner end of a short shaft P, which has its outer end bifurcated to receive the end of a shaft Q between the ends thereof, which forms a knuckle-joint. This shaft P carries a small bevel gear-wheel O, which meshes with the large bevel-gear N, and thus imparts a rotary motion to the said shafts P and Q, as the bevel-gear L is made to revolve by means of a belt G, which passes around the pulleys B and M. The opposite end of this shaft P, which is of any desired length, is pivoted between the outer bifurcated end of a clipper-shaft Q, which passes through a handle R, the opposite end of this shaft being bent into a short crank W, as shown in Fig. 4. Secured to the outer end of this handle R is a square or box portion S, to the lower side of which is rigidly secured a blade T, which has its outer edge notched to form a cutting-edge in the ordinary manner. Extending upward from this stationary blade T are two or more headed projections d, which pass through slots made in a movable blade U, which has its outer edge serrated to coact with the outer serrated edge of the stationary blade T. Extending upward from the inner edge of this movable blade U is a projection V, which is provided with a vertical slot X, into which the cranked end of the clipper-shaft Q extends and plays as the shaft is revolved. In this manner the movable blade is supported and reciprocated by means of the cranked clipper-shaft Q, as will be readily understood, through the medium of the mechanism just described, and also by means of this construction the blades can be turned at any desired angle by means of the handle, to which one of them is firmly fixed, and the cutter directed to any part of the animal and in any desired position.

The object of the slotted boxes C is to allow the hanger F to be raised vertically in relation to the stationary shaft A and pulley B thereon, which raises the pulley M nearer the pulley B, and the belt thus loosened, which stops the mechanism, as will be understood.

This hanger is raised through the medium of a lever which has one end connected to a rod E, which is connected to the upper end of a U-shaped iron I, which has its ends secured 5 to the inner edges of the ends H. In this manner several clippers can be run from a driving-shaft and each or every one stopped and started independently of the other by simply raising the hanger through the medium 10 of the lever.

In order to prevent the belt G from becoming displaced on the pulleys M and B, each of the said pulleys has a deep flange, as shown in Fig. 2, which is sufficient to allow the belt 15 to be slackened without running out of the groove of the said pulleys.

Having thus described my invention, I claim—

In animal-shearing machines, a main driving-shaft, a hanger, a pulley upon the main 20 driving-shaft, boxes upon the hanger having a vertical slot through which the main shaft passes, a pulley on the lower end of the said hanger, a belt connecting the said pulleys and a mechanism driven by the said pulley 25 at the lower end of the hanger, and a means for raising the said hanger, for the purpose described, the parts combined substantially as specified.

In testimony whereof I affix my signature in 30 presence of two witnesses.

HENRY SMITH DAGGETT.

Witnesses:

GEO. NEWBROUGH,
M. C. DONAHUE.