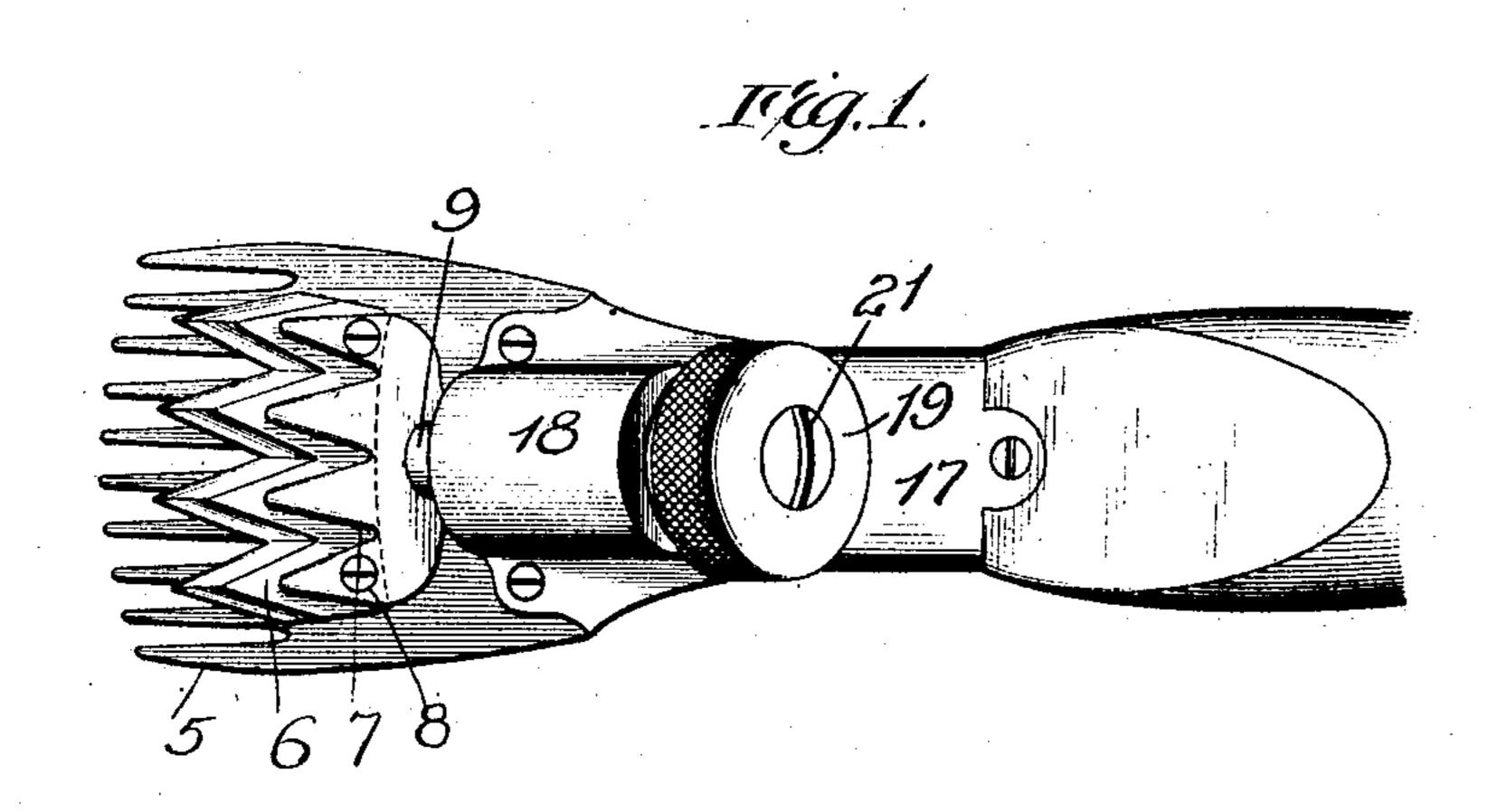
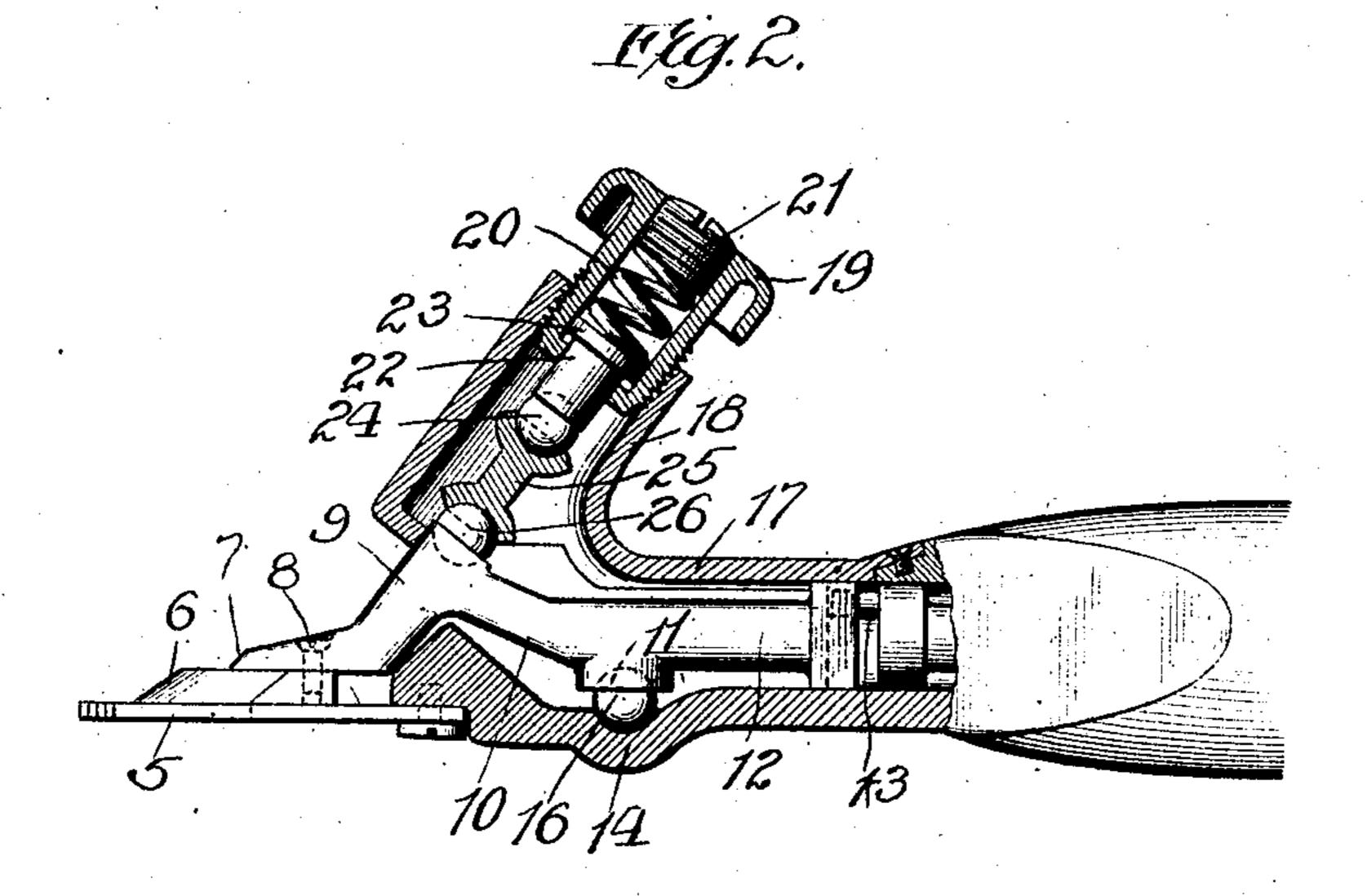
No. 890,984.

PATENTED JUNE 16, 1908.

W. B. HOERR.
CLIPPING MACHINE.
APPLICATION FILED JUNE 17, 1907.





Witnesses Inventor

Ray White. William B. Hoerr

Harry R. L. White By Gorie Bain 45 May

Attago

## UNITED STATES PATENT OFFICE.

WILLIAM BUEL HOERR, OF CHICAGO, ILLINOIS.

## CLIPPING-MACHINE.

No. 890,984.

Specification of Letters Patent.

Patented June 16, 1908.

Application filed June 17, 1907. Serial No. 379,322.

To all whom it may concern:

Be it known that I, WILLIAM B. HOERR, a citizen of the United States, residing a Chicago, in the county of Cook and State of 5 Illinois, have invented certain new and useful Improvements in Clipping-Machines, of which the following is a specification.

My invention relates to improvements in clipping machines, such as are employed in to shearing sheep, clipping horses and the like, and has for its salient purpose to provide new and improved construction involving improved pressure devices for maintaining effective cutting contact between the oscil-15 lating cutter and the fixed cutter.

In the embodiment of my invention shown; Figure 1 is a plan view, and, Fig. 2 a central vertical section, through a clipping

machine.

Throughout the drawing like numerals of

reference refer always to like parts. In the drawing 5 indicates a fixed cutter or comb, and 6 an oscillating cutter, connected for oscillation by the customary dowels 8 25 with the cutter lever head 7. The oscillating cutter lever is preferably of peculiar construction, involving an inclined section 9. which I may term a pressure section, extending downwardly and rearwardly with 30 respect to the plane of oscillation of the movable blade, having adjacent its top a suitable ball seat or recess, and thence extending downward, as shown at 10, at a smaller angle to a ball bearing seat 11 em-35 bodied in the lower surface of the lever, and thence continuing rearwardly in the form of an operating arm 12, connected in any suitable manner with the power appliances, as through the agency of the customary eccen-40 tric connections, generally indicated at 13. The frame 14, carrying the comb or rigid blade 5, is provided with a suitable seat for the ball 16, with which the bearing 11 coacts, and is provided with the customary housing 45.17, having a tubular extension 18 alining with the pressure part 9 of the lever.

Threaded in said tubular extension is an adjusting cap 19, of hollow construction, having therein a strong spring 20, at its upper 50 end bearing against an adjusting screw 21, closing the outer end of the hollow cap 19, and at its lower end bearing against the head 23 of the stud 22, which takes through a bottom aperture hollow cap. At its end the 55 stud 22 provides a seat for a ball 24, bearing in depression in the cup or head of link 25, I the blade, an adjustable pressure regulating

which at its lower end provides a similar cup bearing upon the ball 26, resting in the seat of the extremity of pressure member 9.

Now it will be seen that pressure of the 60 spring 20 is applied through the stud 22, the link 25 and the ball bearings at opposite ends thereof, to the pressure member of the pressure portion 9 of the oscillating lever arm, in a direct line, at a considerable angle, (prefer- 65 ably approximately 45 degrees) to the cutting surface of the movable blade, at a point relatively closer to the movable blade 6 than to the lever fulcrum point 16. By this means the desired pressure for effective cutting may 70 readily be applied to the oscillating blade, and yet the oscillating lever is left comparatively free in its movements upon ball 16. The slight difference in the effective distance from the cutting surfaces to the adjusting 75 cap 19, caused by the oscillating movements of the cutter lever, are compensated for by slight axial movements of the head or stud 22, and the pressure is maintained practically constant through the agency of the 80 strong coiled spring 20. Obviously the pressure may be accurately adjusted by movements of the cap 19.

While I have herein described in some detail a specific embodiment of my invention 85 it will be apparent that some changes may be made therein without departure from its

spirit and scope.

Having thus described my invention, what I claim and desire to secure by Letters Pat- 90

ent, of the United States is:

1. In a clipping machine, the combination with a case, a stationary cutter, and a movable cutter, of an oscillating cutter lever arm, comprising a pressure part at an angle to the 95 cutting plane, and means for applying elastic pressure directly to said pressure part in substantial alinement therewith.

2. In a clipping machine, a stationary and movable cutter, a pivoted lever arm bearing 100 upon the movable cutter, having an upwardly extending pressure part between the pivot and the blade, and resilient pressure devices for applying elastic tension directly to said pressure part of the lever in substantial aline- 105 ment therewith.

3. In a clipping machine, a stationary blade, a movable blade, a pivoted lever arm, connected with and bearing on said movable blade, and comprising an upwardly extend- 110 ing pressure part, intermediate the pivot and

cap substantially alining with said pressure portion of the lever arm, and a connection between said cap and lever arm comprising a link and ball joint at opposite ends of said 5 link.

4. In a clipping machine, a stationary blade, a movable blade, an oscillating lever arm pivoted in rear of said blade and bearing directly upon the movable blade, said arm comprising an upwardly and rearwardly extending part 9, a suitable casing, an adjusting head 19 in said casing, a spring within

said head, an axially movable part carried by said head, a link interposed between said axially movable part and the portion 9 of 15 the oscillating lever, said part 9, the link and the cap 19 being arranged in substantial alinement.

In testimony whereof I hereunto set my hand in the presence of two witnesses.

WILLIAM BUEL HOERR.

In the presence of— Julius Miller, W. S. Wright.