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PATENTED JUNE 16, 1908.

W. C. EVANS & E. H. TAYLOR.

ROTARY CUTTER.

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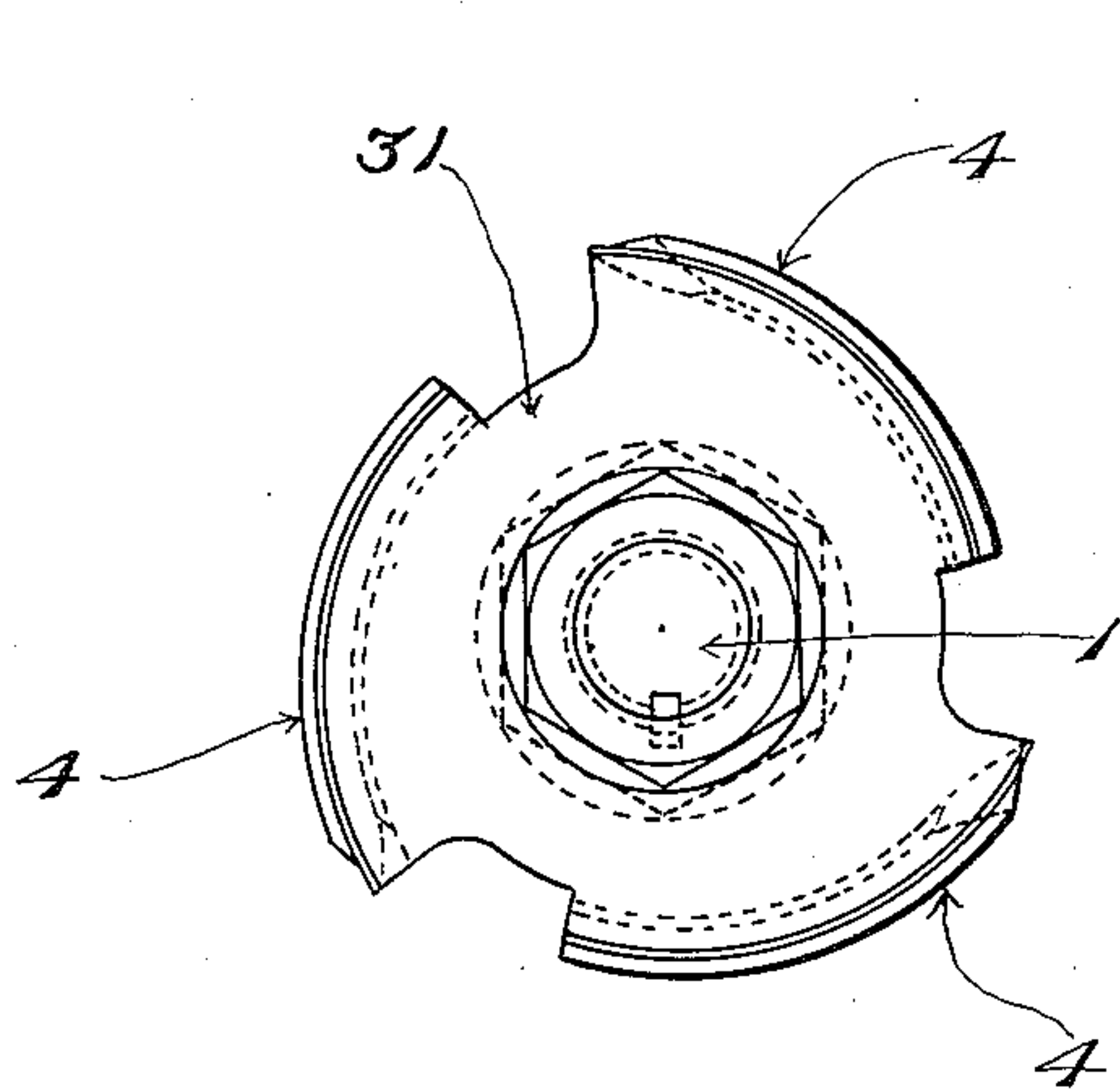


Fig. 1.

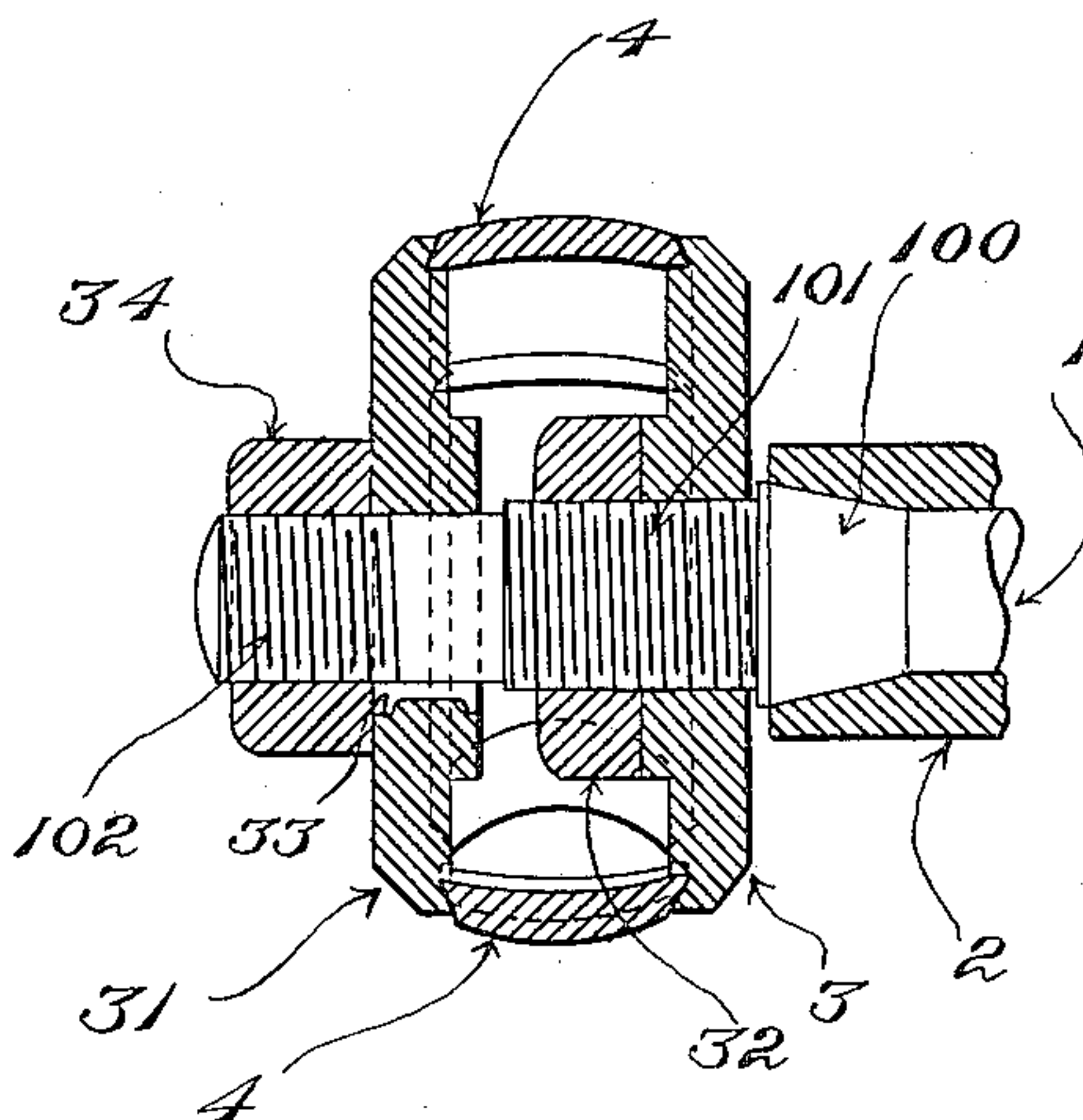


Fig. 2.

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UNITED STATES PATENT OFFICE.

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ROTARY CUTTER.

No. 891,212.

Specification of Letters Patent.

Patented June 16, 1908.

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To all whom it may concern:

Be it known that we, WARREN C. EVANS and EUGENE H. TAYLOR, citizens of the United States, residing at Exeter, in the county of Rockingham, State of New Hampshire, and at Lynn, in the county of Essex and State of Massachusetts, have invented a certain new and useful Improvement in Rotary Cutters, of which the following is a specification, reference being had therein to the accompanying drawings.

The invention relates to a rotary cutter which has been designed more especially for edge trimming in connection with boots and shoes, in the manufacture of the latter, but the invention is adapted to be embodied in similar cutters employed for other uses.

The invention is illustrated in the accompanying drawings, in which latter,—

Figure 1 is a view in elevation of a cutter embodying the invention. Fig. 2 is a view of the said cutter, mainly in section in a central plane extending longitudinally of the cutter-shaft.

Having reference to the drawings,—1 designates the cutter-carrying tool-shaft, and 2 is a portion of the bearing for the said shaft. 3 and 31 are heads which are applied to the end of said tool-shaft projecting beyond the said bearing, and 4, 4, 4, are the cutter-blades mounted between the said heads.

The cutter-carrying tool-shaft 1 is formed with the tapered bearing-portion 100 fitting the correspondingly tapered end-portion of the interior of the bearing 2. The extremity of the tool-shaft projecting beyond the said bearing is screw-threaded as at 101 and 102, the inner (101) of these two threaded portions being slightly larger in diameter than the outer (102). The two heads 3 and 31 of the cutter are grooved to receive the opposite edges of the cutter-blades, in usual fashion, and are clamped against said edges to hold the blades in place, as ordinarily.

In conformity with the invention, we render the cutter-head adjustable upon the shaft 1 in the direction of the length of the latter by the construction which we will now describe. The central opening or eye of the inner head 3 is threaded to fit the threaded portion 101 of the shaft 1, and after having

been turned upon the latter until it has been caused to assume the desired position it is secured in place by the jam-nut 32 which also is applied to the said threaded portion 101. The outer head, 31, is splined to the shaft 1, as at 33, Fig. 2, so as to be capable of end-wise movement, thereon, but not of turning relative thereto. The jam-nut 34 fitted to the outer threaded portion 102 of the shaft 1, acts against the outer side of the head 31 so as to cause the latter to clamp the cutter-blades 4, 4, 4, between itself and the inner head 3.

The advantages of the foregoing are the simplicity and strength of the construction and the convenience with which the cutter-head may be adjusted upon the shaft 1 in a direction lengthwise of the latter.

We claim as our invention:—

1. In combination, a screw-threaded cylindrical carrier, a centrally-threaded head adjustable upon the threaded portion of said carrier, a jam-nut locking the said head in adjusted position, a movable head splined to the said carrier, cutter-blades seated edgewise between the said heads, and a jam-nut acting upon the movable head to clamp the blades between the latter and the relatively-fixed head.

2. In combination, a screw-threaded cylindrical carrier, a centrally-threaded head screwed thereon and adjustable to fix the position of the cutter on the carrier, means for separately locking the said head in adjusted position, a movable head, cutter-blades seated edgewise between the said heads, and a jam-nut locking the latter head and clamping the said cutter-blades between the two heads.

In testimony whereof we affix our signatures, in presence of witnesses.

WARREN C. EVANS.
EUGENE H. TAYLOR.

Witnesses to signature of Warren C. Evans:
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