

(No Model.)

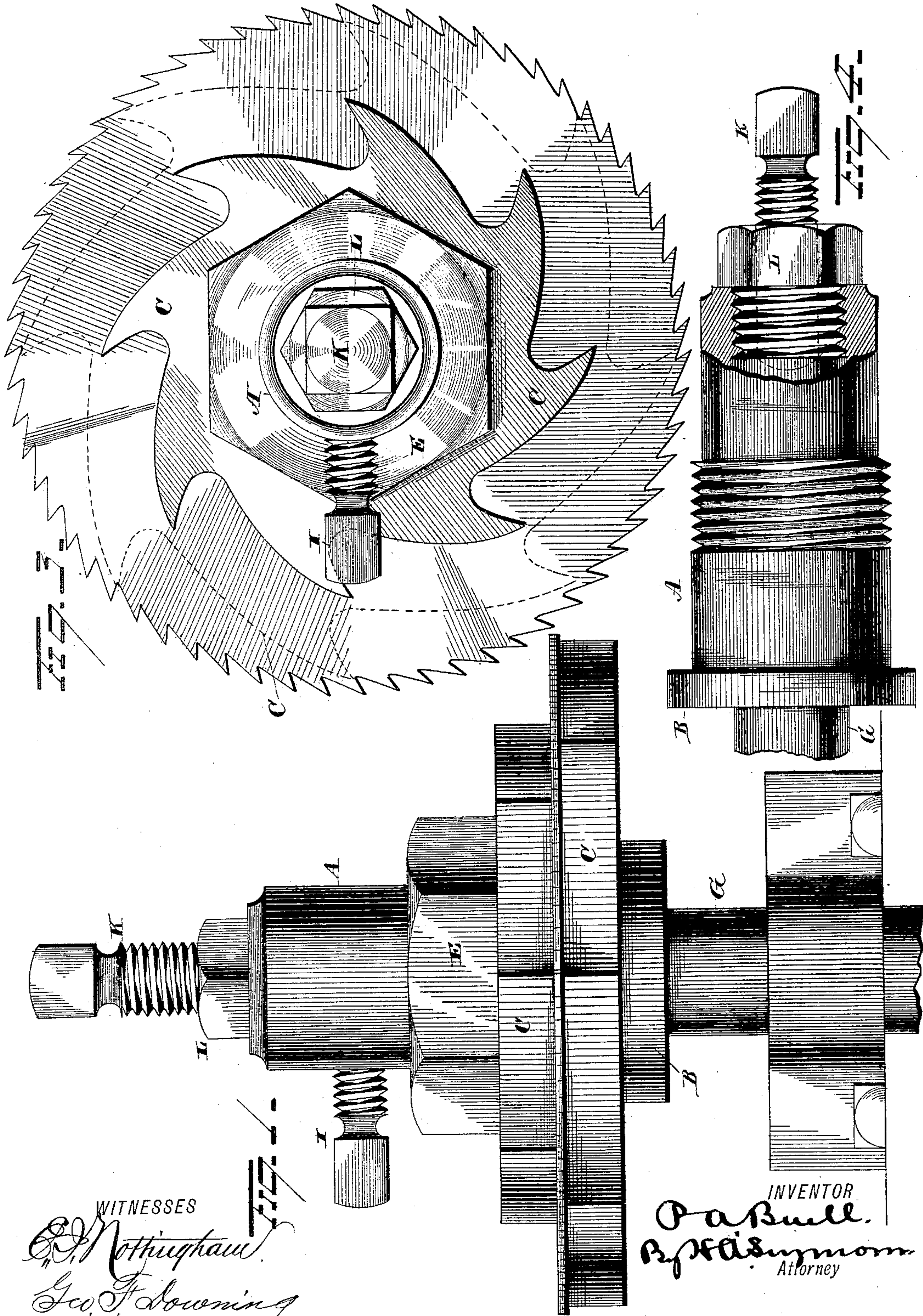
2 Sheets—Sheet 1.

P. A. BUELL.

RABBETING CUTTER HEAD.

No. 318,596.

Patented May 26, 1885.



WITNESSES

*E. Nottingham*  
*Geo. F. Downing*

INVENTOR

*P. A. Buell.*  
*R. H. Symonds*  
Attorney



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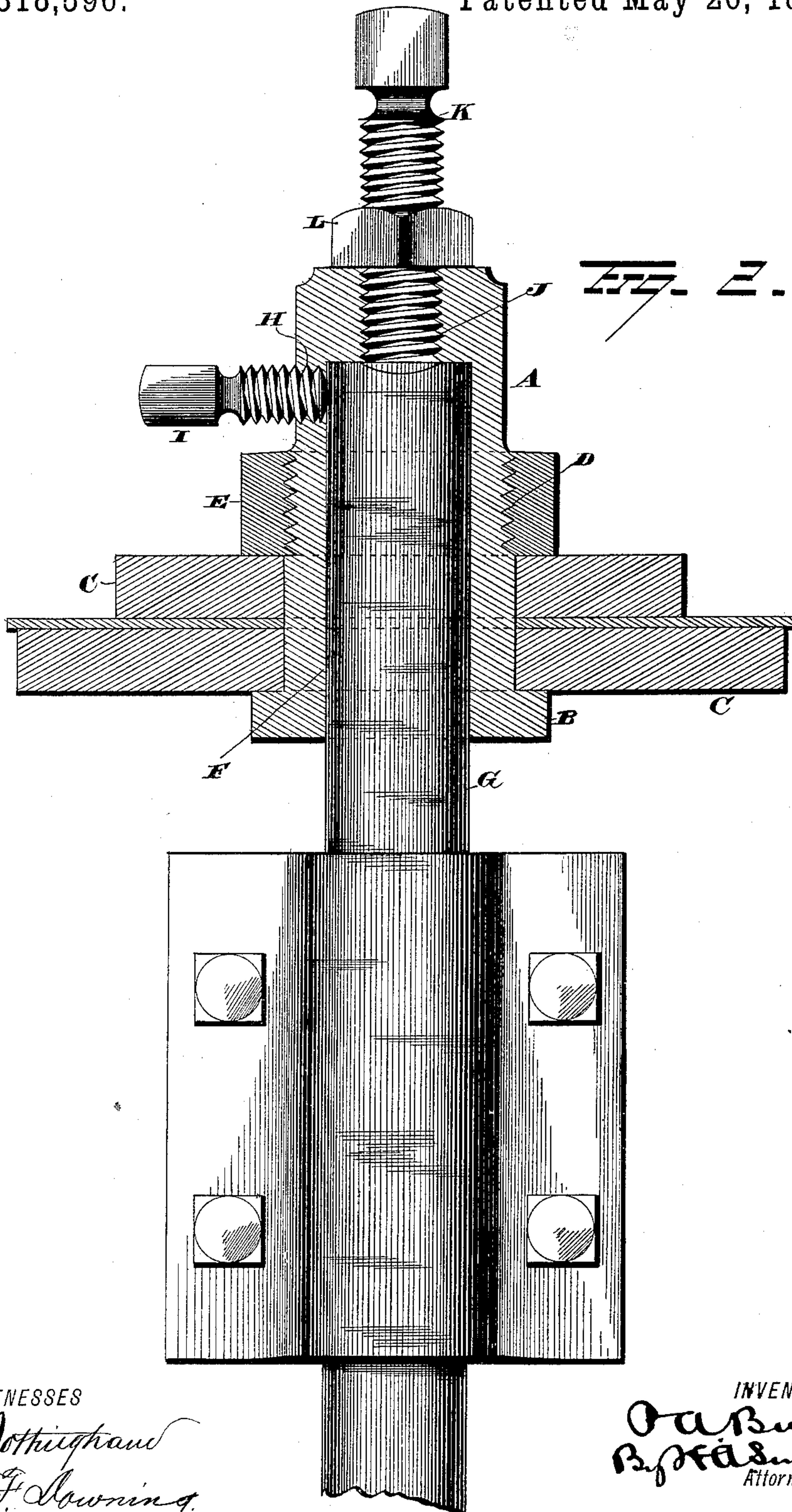
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*R. H. A. Symmon*  
Attorney



# UNITED STATES PATENT OFFICE.

PARK A. BUELL, OF STOCKTON, CALIFORNIA.

## RABBETING CUTTER-HEAD.

SPECIFICATION forming part of Letters Patent No. 318,596, dated May 26, 1885.

Application filed January 7, 1885. (No model.)

*To all whom it may concern:*

Be it known that I, PARK A. BUELL, of Stockton, in the county of San Joaquin and State of California, have invented certain new and useful Improvements in Cutter-Heads; 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 appertains to make and use the same.

My invention relates to an improvement in cutter-heads, the object of the same being to provide improved means whereby the saws or cutters may be conveniently attached in any desired number and of various sizes, as it may be found desirable, to use for the purpose of rabbeting, gaining, grooving, &c. A further object is to provide a cutter-head which will be susceptible of both vertical and horizontal adjustment. A further object is to provide means of the above character which shall be simple and economical in construction and durable and efficient in use; and with these ends in view my invention consists in the certain features of construction and combination of parts as will be hereinafter fully described, and pointed out in the claims.

In the accompanying drawings, Figure 1 is a side view of my invention. Fig. 2 is a longitudinal sectional view of the same. Fig. 3 is an end view thereof, and Fig. 4 is a modification.

A represents the head, provided at its lower end with an annular flange, B. The said flange may be formed integral with the head, or it can be made separate and secured thereto. The object of providing the lower portion of the head with the flange is to provide a suitable seat or support for the saws or cutters C, which are adapted to be placed on the head in any suitable or desired number. The head is provided on the surface near its center with the male threads D, adapted to receive the nut E for holding the saws or cutters in snug contact with the flange B. The head A is provided with a longitudinal perforation, F, adapted to receive the arbor G. The head is further provided near its upper end with the lateral threaded perforation H, extending through the side thereof, in which the set-screw I is adapted to fit and impinge against the arbor G, thus causing the head A to re-

volve therewith. The perforation F extends nearly to the top of the head, at which point an internal annular shoulder is formed, and the end of the head is centrally provided with a threaded perforation, J, which extends through the top thereof, and is adapted to receive an adjusting-screw, K, which passes through the end of the head, the said screw K being provided with a lock-nut, L, adapted to engage the head and lock the adjusting-screw in required adjustment.

I do not limit myself to the construction of the annular shoulder formed integral with the head A, as it may be convenient to form the head so that it can be used either upon a vertical or horizontal shaft, in which event the head is provided with a perforation of equal size extending through the top thereof, and a box can be made separate and fitted therein, as will be hereinafter described. When the head A is situated on a vertical arbor, the cutters and saws add weight thereto, which would bear upon the set-screw I and have a tendency to cause the cutter-head to work downwardly out of position.

In order to avoid the strain upon the set-screw I, the head A is provided at its upper end with the before-mentioned adjusting-screw K. Thus it will be observed that when the screw K is lowered into the perforation F, one end of the screw impinges upon the end of the arbor G and the head is held in position against displacement. When the head A is used upon a horizontal shaft, the perforation F is extended entirely through the head, thus enabling the head to be laterally adjusted on the arbor, and the same is locked thereon by means of the set-screw I.

For the purpose of economy and utility I construct the head in such manner that it may be used either upon a vertical or horizontal arbor, in which case I provide the upper end of the head with a removable plug or box, L, having a male thread adapted to register with the female thread J in the end of the head A. The plug or box is further provided with the perforation to receive the adjusting-screw K, in the manner hereinbefore described.

I am aware that it is not new to provide a hollow cutter-head with a flange, and with devices for locking the cutters against flange, and

hence I make no claim, broadly, to such construction; but,

Having fully described my invention, what I claim as new, and desire to secure by Letters Patent, is—

1. The combination, with a hollow cutter-head having a flange thereon, of a removable box for closing one end of said head, cutters, devices for locking the cutters on the head, and a set-screw for locking the head to the arbor, substantially as set forth.

2. The combination, with hollow cutter-head having a flange thereon and a female screw-threaded end, of one or more cutters, a

nut screwed onto the cutter-head for locking the cutters in position, a screw-threaded box removably secured in the screw-threaded end of the head, a set-screw for locking the head in the arbor, and a set-screw adapted to bear against one end of the arbor, substantially as set forth.

In testimony whereof I have signed this specification in the presence of two subscribing witnesses.

PARK A. BUELL.

Witnesses:

A. W. LOCKHART,  
ROBERT P. INGLIS.