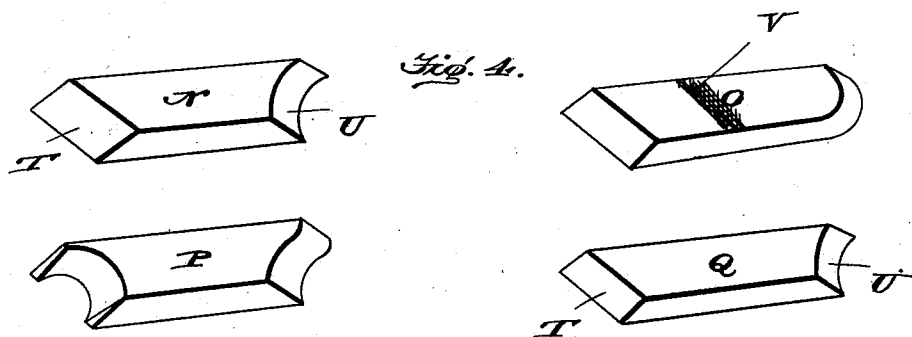
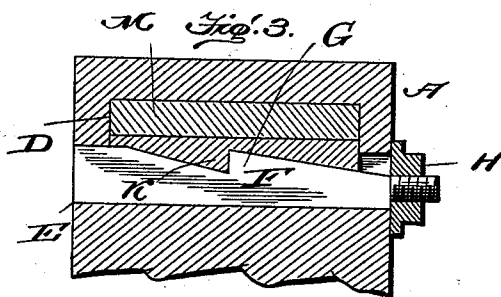
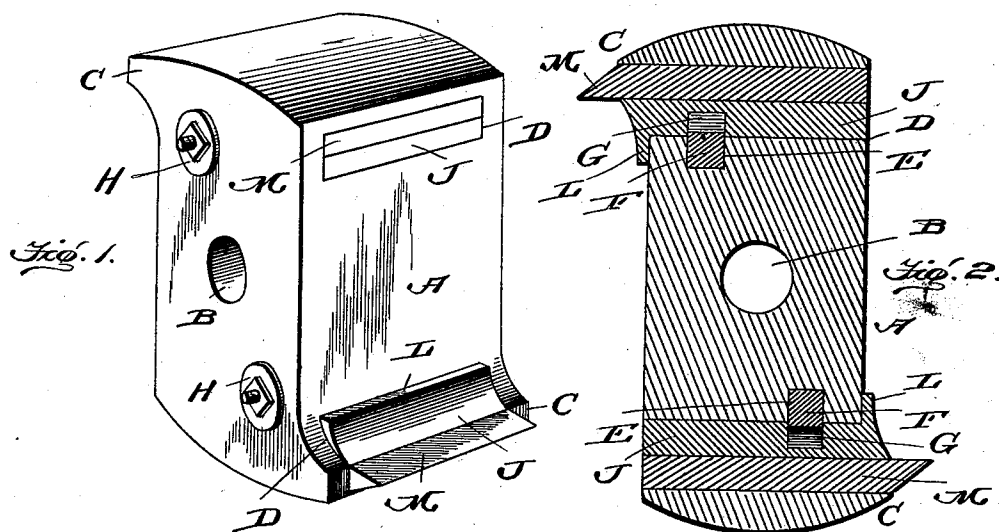


(No Model.)

A. PRIODE.
ROTARY CUTTER HEAD AND BIT.

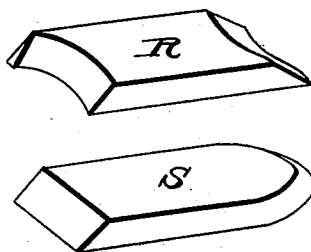
No. 508,181.

Patented Nov. 7, 1893.



WITNESSES:

Wm. C. Ashie
May E. Moore



Abraham Priode
INVENTOR
BY *Wm. C. Moore*
ATTORNEY.

UNITED STATES PATENT OFFICE.

ABRAHAM PRIODE, OF POMEROY, OHIO.

ROTARY CUTTER-HEAD AND BIT.

SPECIFICATION forming part of Letters Patent No. 508,181, dated November 7, 1893.

Application filed December 30, 1892. Serial No. 456,801. (No model.)

To all whom it may concern:

Be it known that I, ABRAHAM PRIODE, a citizen of the United States, residing at Pomeroy, in the county of Meigs and State of Ohio, have invented certain new and useful Improvements in Rotary Cutter-Heads and Bits; and I do 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, reference being had to the accompanying drawings, and to the letters of reference marked thereon, which form a part of this specification.

My invention relates to improvements in rotary cutter heads and bits, and relates specially to what may be termed a universal head for wood working machines such as sticker machines, friezing machines, matching machines and the like.

The object of my invention is to provide a rotary head which will permit of an easy and ready application of bits and which will rigidly secure the bit against improper movement and thus insure the best work.

The object is further to provide a head adapted to receive bits which will have double cutting or interchangeable ends in order that single bits may effectively do double service.

The object is further to provide a rotary head and bits therefor which will be of simple, durable and inexpensive construction, easy of adjustment and thoroughly efficient in operation, thus possessing all the requirements to render the improvement practical and useful.

To attain the desired objects the invention consists of a rotary cutter embodying novel features of construction and bits of peculiar construction as will be disclosed herein.

Figure 1 represents a perspective view of my improved rotary cutter head with bits applied such as are employed in planing work. Fig. 2 represents a transverse sectional view thereof. Fig. 3 represents a sectional detail view to show particularly the manner of securing or wedging the bits in the head, and Fig. 4 represents detail views of different forms of bits specially adapted for use in connection with my head and by means of which numerous designs may be cut on wood surfaces.

Referring by letter to the drawings—A designates the cutter head or block, having the shaft opening B, the oppositely arranged or directed offsets C, the longitudinally arranged rectangular passages or sockets D and the transverse channels E, all as clearly shown. The transverse channels or grooves E are adapted or constructed to receive the keys F having the securing steps G and having one of their ends threaded to receive the nut H the purpose of which is to draw upon the keys to cause them to wedge. Fitting in the passages or sockets D are the flat plates J, also having the steps K which act in conjunction or are engaged by the steps of the keys to secure the plates, and the plates are further provided with the depending flange L the purpose of which is to prevent any foreign matter from passing under the plate.

From this construction it is evident that the plates are acted upon by the keys which act as a wedge to hold the bits M in place, and it will be noted that some of the bits as N, O, P, Q, R and S have double cutting edges T and U of different shapes and by this construction the bits may be adjusted to make surface outlines or designs of many forms, as circumstances require, or a plain bit may be used and the head will be thoroughly efficient under all circumstances.

It will thus be seen that I provide a rotary head and bits which can be used for all kinds of wood work on surface and edge with ease and a head which will permit the removal and application of bits of different kinds with rapidity and the bits will be firmly secured. It will also be seen that I provide a head which is the embodiment of simplicity, durability and cheapness and by reason of its efficiency is thus rendered economical and useful. I prefer to roughen one face of the bits or cutters to cause them to be secured more rigidly in the head, as shown at V.

It will be seen that I may employ a four side cutter-head if desired and apply bits for producing simultaneously plain and molded surfaces, as is evident.

I claim—

1. A rotary cutter head having the longitudinal passages, and the communicating transverse channels, bits arranged in said passages, plates engaging said bits and hav-

ing the depending flanges, and keys arranged in the transverse channels for engaging the plates to secure them and the bits in the head.

2. A rotary head having the longitudinal
5 passages and the transverse communicating
channels, bits arranged in said longitudinal
passages, plates also arranged in said pas-
sages and having steps on the under face,
and also provided with the depending flanges
10 as described, and keys arranged in the trans-

verse channels and having steps for engaging with the steps of the plate to secure them in place, and tightening or adjusting nuts engaging the keys.

In testimony whereof I affix my signature in 15
presence of two witnesses.

ABRAHAM PRIODE.

Witnesses:

WALLACE B. CURTIS,
EDWARD H. SCHARF.