

No. 809,037.

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E. A. WALKER.
GAGE FOR CUTTER HEADS.
APPLICATION FILED JUNE 17, 1905.

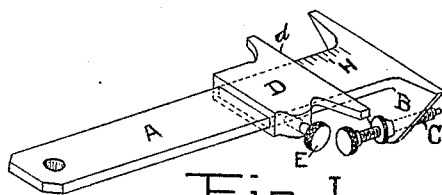


Fig. 1.

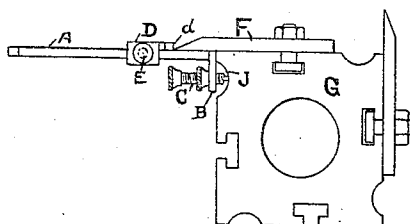


Fig. 2.

Witnesses
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GAGE FOR CUTTER-HEADS.

No. 809,037.

Specification of Letters Patent.

Patented Jan. 2, 1906.

Application filed June 17, 1905. Serial No. 265,686.

To all whom it may concern:

Be it known that I, ELMER A. WALKER, a citizen of the United States of America, and a resident of Saratoga Springs, Saratoga county, New York, have invented certain new and useful Improvements in Gages for Cutter-Heads, of which the following is a specification.

My invention relates to cutter-head gages, and the object of my invention is to provide an adjustable gage to be used for setting the knives on a cutter head for the purpose of adjusting the cutting edges so that they will be equidistant from the cutter-head. I attain this object by means of the mechanism illustrated in the accompanying drawings, in which—

Figure 1 is a perspective view of my gage. Fig. 2 is an elevation of a cutter-head with my gage applied thereto.

Similar letters refer to similar parts throughout both views.

The plate A is provided with a right-angled projecting block B, through which block I place the regulating-screw C. Upon the plate A, I arrange a sliding adjustable plate D. Preferably on the edge of the said plate D, I place the set-screw E, by means of which the sliding-plate D may be secured in any desired position on the plate A. I place the set-screw E preferably on the edge of the plate A for the reason that I wish to maintain the edge *d* of the plate D positively in position when the screw is set, preventing any rotary motion which might take place if the set-screw were on the top rather than at the edge of the plate D. The edge *d* is to be brought in contact with the cutting edge of the knife to be adjusted, and I make this edge *d* long in order that with a short knife in a cutter-head it will square the knife-blade with the edge of the plate D. From the projecting block B on the end of the plate A, I preferably graduate the plate A, as shown in Fig. 1 at H, the graduations being, preferably, one-sixteenth of an inch apart and the extent of graduation preferably one inch or more.

I show in Fig. 2 my gage in connection with the blade F of the cutter-head G. The adjustable screw C is in contact with the cutter-head projected into the recess J in the cutter-head. The edge *d* of the plate D is

in contact with the edge of the knife-blade F. The screws C and E are respectively set in position. The other knives of the cutter-head may be adjusted to correspond by using the gage in connection with them, respectively, in the manner shown in Fig. 2. When there is no recess J in the cutter-head adjacent to the blade F, the screw C is drawn sufficiently from the block B to allow the block B to engage the side of the cutter-head.

In the use of my gage I do not engage both sides of the cutter at the same time and am not interfered with by bolts or other construction of the knives, the cutter-head, or attachments, and I may readily use my gage in connection with any style of cutter-head and adjust the same without in any manner being inconvenienced because of projections or recesses on the blade, cutter-head, or means for attaching the same.

For the purpose of causing the gage to be held in contact with the cutter-head after it has been placed in position I may magnetize the block B by rubbing the block with a magnetized bar of iron or in any suitable manner, so that when it is brought in contact with the cutter-head it will by magnetism be held in position in contact therewith.

What I claim as my invention, and desire to secure by Letters Patent, is—

1. An adjustable gage for cutter-heads; comprising a plate; a right-angled projecting block at the end thereof; a sliding plate adapted to reciprocate on that side of said first-mentioned plate opposite that from which said block projects; an adjusting-screw in said block; a set-screw in said sliding plate.

2. An adjustable gage for cutter-heads; comprising a plate; one end of which is adapted to be placed beneath the projecting portion of a cutter-blade; a right-angled projecting block at the end of said plate extending from the side of said plate opposite that upon which said cutter-blade is adapted to rest; an adjusting-screw in said block; a sliding plate upon the side of said first-mentioned plate that the cutter-blade is adapted to rest upon; a set-screw in said sliding plate.

3. An adjustable gage for cutter-heads; comprising a plate; a right-angled project-

ing magnetized block at the end thereof; an
adjusting - screw in connection with said
block; a sliding plate adapted to reciprocate
on said first-mentioned plate along the side
5 thereof opposite to that from which said
block extends; a set - screw in said sliding
plate, substantially as described.

Signed at Albany, New York, this 8th day
of June, 1905.

ELMER A. WALKER.

Witnesses:

FREDERICK W. CAMERON,
LOTTIE PRIOR.