Feb. 26, 1924. 1,485,149

H. RENKEN

ATTACHMENT FOR TRIMMING MACHINES

Filed May 3, 1922

Fig. 1,

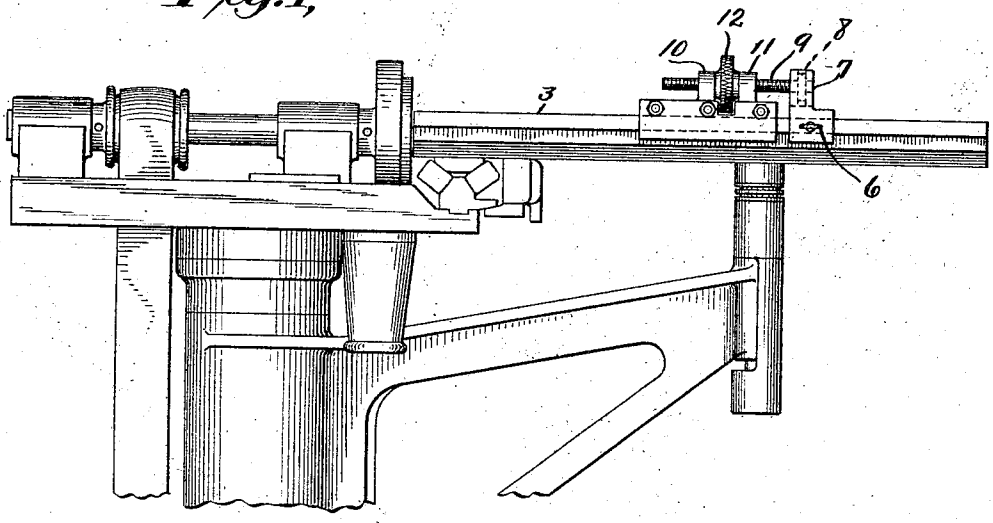
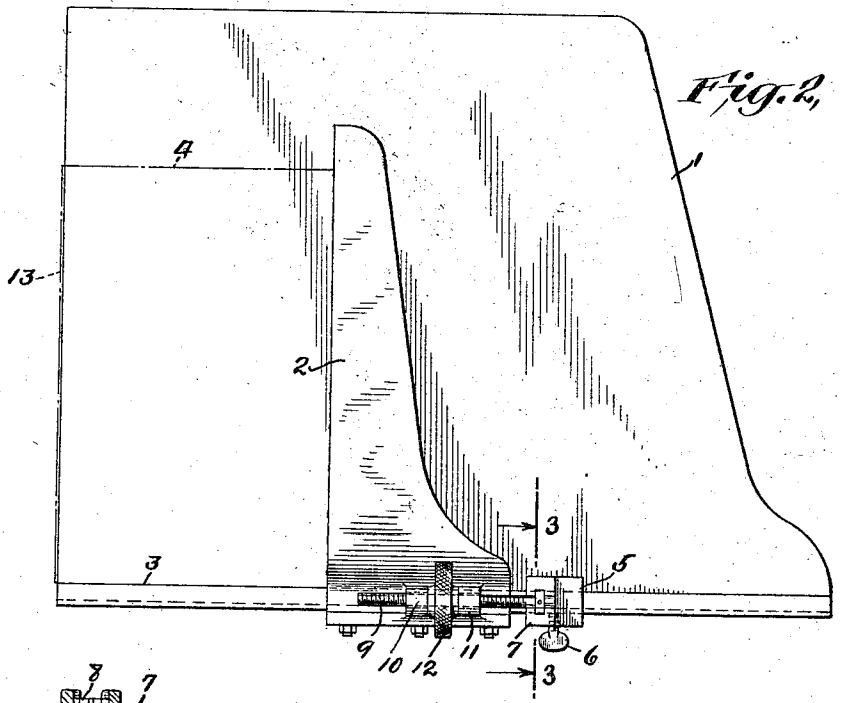


Fig. 2,



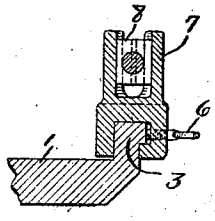


Fig. 3,

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UNITED STATES PATENT OFFICE.

HENRY RENKEN, OF NEW YORK, N. Y., ASSIGNOR TO F. WESEL MANUFACTURING COMPANY, OF BROOKLYN, NEW YORK, A CORPORATION OF NEW YORK.

ATTACHMENT FOR TRIMMING MACHINES.

Application filed May 3, 1922. Serial No. 558,321.

To all whom it may concern:

Be it known that I, HENRY RENKEN, a citizen of the United States, and a resident of the county of Queens, in the city and State of New York, have invented certain new and useful Improvements in Attachments for Trimming Machines of which the following is a specification.

My invention relates to improvements in attachments for trimming machines and an object thereof is the provision of a gage adapted to be attached to the table of a trimming machine wherein the wear in the gage and along the rail which carries the gage is automatically compensated for.

In general, my attachment comprises a sliding stop adapted to be mounted upon the work table of a trimming machine, this stop positioning the work to be operated upon, means being provided whereby this stop may be adjusted accurately at all times and with the least possible effort.

The gage constituting the major part of my invention has one end rigidly secured to the work table and another part secured to the adjustable stop above mentioned, a floating connection being provided between the fixed portion of the gage and that portion carried by the stop so that all wear is automatically compensated for and does not throw the attachment out of alignment.

In the accompanying drawings,—

Fig. 1 shows my improved device in elevation and applied to the work table of a trimming machine;

Fig. 2 shows the device in plan; and

Fig. 3 shows the device in section, this figure being taken substantially on the line 3—3 of Fig. 2.

Referring to the drawings in detail, 1 designates the work table of a trimming machine and 2 an adjustable stop adapted to slide along the guide 3 of the table. 4 indicates a piece of work to be trimmed, mounted on the work table and engaging the adjustable stop 2. Secured to the side of the work table and adapted to slide along the guideway 3 is a block 5. This block is held in adjustable position by thumb screw 6. The block 5 comprises or carries a yoke or bracket 7, this bracket receiving a straight sided floating block 8 adapted to have vertical movement in the bracket 7. This floating block 8 is pinned or otherwise secured to a threaded spindle 9. The stop 2 is provided with a pair of guide brackets 10 and 11, these brackets being spaced from each other to accommodate a hand wheel 12 which is threaded to receive the spindle 9. In operation the block 5 is set at any desired position along the guideway or rail 3 of the work table and secured in position by the thumb screw 6. The work 4 is then placed on the table and pushed against the stop 2. By manipulation of the hand wheel 12 the stop 2 may then be adjusted toward or away from the side 13 of the work to be trimmed, the spindle 9, it being understood, being held against rotation by engagement of the floating block 8 with the sides of the bracket 7 carried by the fixed block 5. The threads on the spindle 9 are fine pitch so that the work 4 may be adjusted very accurately. By reason of the fact that the floating block 8 is permitted to move laterally so as to have vertical movement with respect to the bracket 7 it will be seen that any wear of the rail 3 or the guideways in the stop 2 which cooperate with the rail 3 will be automatically compensated for so that the stop will always properly engage the rail 3 and will not be thrown out of alignment therewith. It will be readily seen that if the spindle 9 were rigidly secured to the block 5 any wear between the stop 2 and rail 3 would place a strain on the spindle 9 and block 5 to throw the attachment out of proper adjustment and alignment.

Another important advantage of the present attachment is its simplicity of construction and the ease with which the stop 2 and block 5 may be adjusted along the side of the work table 1.

I claim:

1. In a trimming machine, the combination of an adjustable stop, a member cooperating therewith and adapted to be rigidly secured to the side of the work table of the machine and a floating connection between the stop and said member.

2. In a trimming machine, the combination of a block adapted to be rigidly secured to the work table, a stop carried by the work table, a spindle adjustably connecting said block and stop, said spindle being freely movable vertically of said block.

3. In a trimming machine, the combination of a block adjustably mounted on the work table of the machine, means for hold-

ing the block in adjusted position, a stop carried by the work table, a spindle connecting the block and stop and adapted to adjust the stop on said table, and means for attaching one end of the spindle to the block, and permitting of lateral movement of the spindle relatively to said block.

4. In a trimming machine, the combination of a block adjustably mounted on the work table of the machine, means for securing said block in adjusted position, a bracket carried by said block, a floating block carried in said bracket, a spindle rigidly secured to said floating block, a stop, guide brackets carried by said stop and receiving said spindle and a hand wheel threaded on said spindle and mounted intermediate said brackets whereby when said hand wheel is rotated the stop will be moved along said rail.

This specification signed this 2d day of May 1922.

HENRY RENKEN.