

G. F. READ & F. G. LOUGEE.
MOVABLE WORK GAGE FOR STEREOTYPE TRIMMING MACHINES, &c.
APPLICATION FILED JAN. 18, 1909.

977,474

Patented Dec. 6, 1910.

Fig. 1.

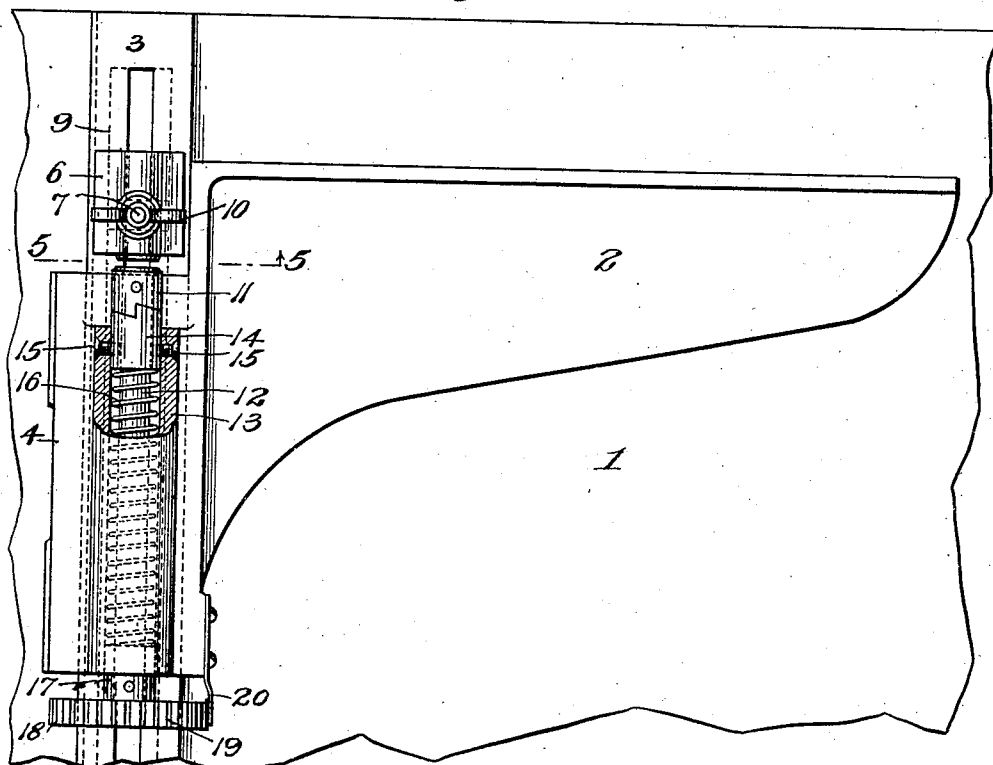


Fig. 2.

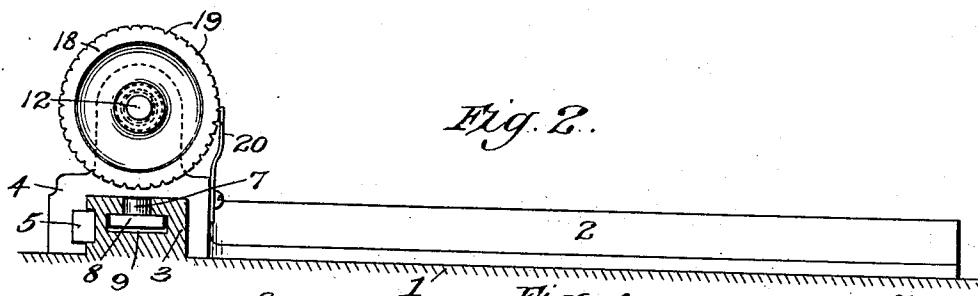


Fig. 4.

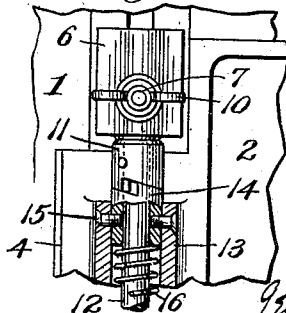
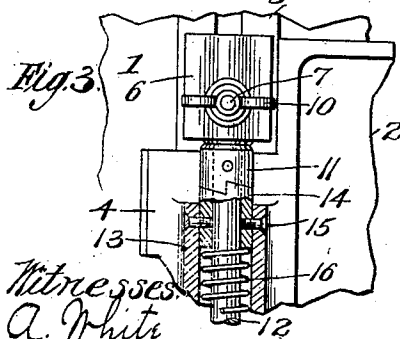
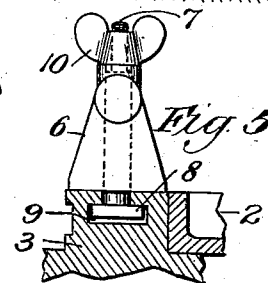


Fig. 3.



Witnesses:
A. White
S. C. Brown

Fig. 5.



Inventors:
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UNITED STATES PATENT OFFICE.

GEORGE F. READ AND FREDERICK GRAFTON LOUGEE, OF LONDON, ENGLAND, ASSIGNORS, BY MESNE ASSIGNMENTS, TO R. HOE AND CO., OF NEW YORK, N. Y., A CORPORATION OF NEW YORK.

MOVABLE WORK-GAGE FOR STEREOTYPE-TRIMMING MACHINES, &c.

977,474.

Specification of Letters Patent.

Patented Dec. 6, 1910.

Application filed January 16, 1909. Serial No. 472,587.

To all whom it may concern:

Be it known that we, GEORGE F. READ and FREDERICK GRAFTON LOUGEE, citizens of the United States, and residents of London, county of Middlesex, England, have invented certain new and useful Improvements in Movable Work-Gages for Stereotype-Trimming Machines and the Like, fully described and represented in the following specification and the accompanying drawings, forming a part of the same.

This invention relates to certain improvements in devices for controlling the position of movable work gages, and more particularly the work gages used for trimming stereotype plates, linotype slugs, and the like.

The invention has for its object to produce an improved construction in which a movable work gage, which may be employed for presenting work to a cutter, as, for instance, a trimming wheel, may have its position quickly and accurately determined.

With this and other objects in view, the invention consists in certain construction and in certain parts, improvements and combinations, as will be hereinafter fully described and then specifically pointed out.

Referring to the accompanying drawings—Figure 1 is a plan view of a movable work gage, provided with a position determining construction embodying the invention. Fig. 2 is an end view of the construction shown in Fig. 1, certain parts being shown in section. Figs. 3, 4 and 5 are detail views illustrating the operation of the construction.

Referring to the drawings, 1 indicates the work table of a trimming or other similar machine. Coöperating with the table is a movable gage 2 which may operate to present the work to a suitable trimming mechanism, not shown. The table may be provided with a rib, as 3, and the gage may be provided with an angle bracket, indicated at 4, which embraces the rib, so that the rib guides the gage in its movement. A gib, as 5, may be employed to prevent the gage from becoming detached from the rib.

Constructions embodying the invention will include an adjustable stop by which the position of the movable gage may be roughly determined. While this stop may be variously constructed and mounted, as

shown, it comprises a block 6 having a vertical perforation through which passes a bolt 7 having a T-shaped head 8. As shown, the head 8 of this bolt works in an undercut slot 9 formed in the rib 3. The bolt, when the same is employed, may be provided with any suitable locking means, such as a wing nut 10.

In addition to the stop by which the rough adjustment of the work gage is determined, constructions embodying the invention will further include a suitable adjustable positioning device between the gage and the stop. This positioning device may be varied in its specific construction and the manner of mounting and adjusting it. In the particular construction shown, there is provided a head 11, this head being fast to a shaft 12 which is mounted in a tubular fitting 13 fast to the work gage, this tubular fitting, as shown, being part of the bracket 4. The fitting further supports a collar 14 removably secured to the fitting in any suitable manner, as by screws 15. The rear end of the head and the forward end of the collar are, in the particular construction illustrated, provided with inclined cam surfaces, and these surfaces are held in contact by a suitable spring 16 which bears against the collar 14 and against a collar 17 secured to the shaft. The shaft extends through the collar 14. For convenience in rotating the shaft, it may be provided with a thumb wheel 18. It is apparent that when the shaft is rotated, the cam surfaces of the head and the collar will vary the position of the head, the shaft being caused to slide through the collar. In this way, a very fine adjustment of the head may be attained. A suitable locking device may be provided for the shaft. In the construction shown, the wheel 18 is provided with notches 19 which are engaged by a suitable toothed spring 20, this spring being mounted on the bracket 4.

Changes and variations may be made in the construction by which the invention is carried into effect. The invention is not, therefore, to be confined to the particular construction herein shown and described.

What we claim is:—

1. The combination with a movable work gage, of an adjustable stop which is disconnected from the gage, a positioning device between the gage and the stop which oper-

ates to finally determine the position of the gage, and means for adjusting the positioning device.

2. The combination with a movable work gage, of an adjustable stop which is disconnected from the gage, a positioning device between the gage and the stop and carried by the gage, and means for adjusting the positioning device.

3. The combination with a movable work gage, of an adjustable stop which is disconnected from the gage, a positioning head arranged to contact with the stop and determine the position of the gage, and means for adjusting the positioning head.

4. The combination with a movable work gage, of an adjustable stop which is disconnected from the gage, a positioning head, a shaft on which the head is mounted, and means whereby the rotation of the shaft adjusts the position of the head.

5. The combination with a movable work gage, of an adjustable stop which is disconnected from the gage, a positioning head, a shaft on which the head is mounted, said head and shaft being carried by the gage, and means also carried by the gage, whereby the rotation of the shaft determines the position of the head.

6. The combination with a movable work gage, of an adjustable stop, a positioning head having a cam surface, a shaft on which the head is mounted, said head and shaft being carried by the gage, a cam surface also carried by the gage, means for holding the cam surfaces in contact, whereby the rotation of the shaft will vary the position of the head, and locking means for the shaft.

7. The combination with a movable work gage, of an adjustable stop, a shaft mounted on the gage, said shaft being provided with a positioning head having an inclined surface, a collar carried by the gage and stationary with respect thereto, said collar being provided with an inclined surface, a spring for holding said inclined surfaces in contact, whereby the rotation of the shaft will vary the position of the head, and locking means for the shaft.

In testimony whereof, we have hereunto set our hands in the presence of two subscribing witnesses.

GEORGE F. READ.

FRED. GRAFTON LOUGEE.

Witnesses:

H. D. JAMESON,

F. L. RAND.