

No. 697,819.

Patented Apr. 15, 1902.

W. H. DENT.  
LATHE ATTACHMENT.

(Application filed Dec. 26, 1901.)

(No Model.)

Fig. 1.

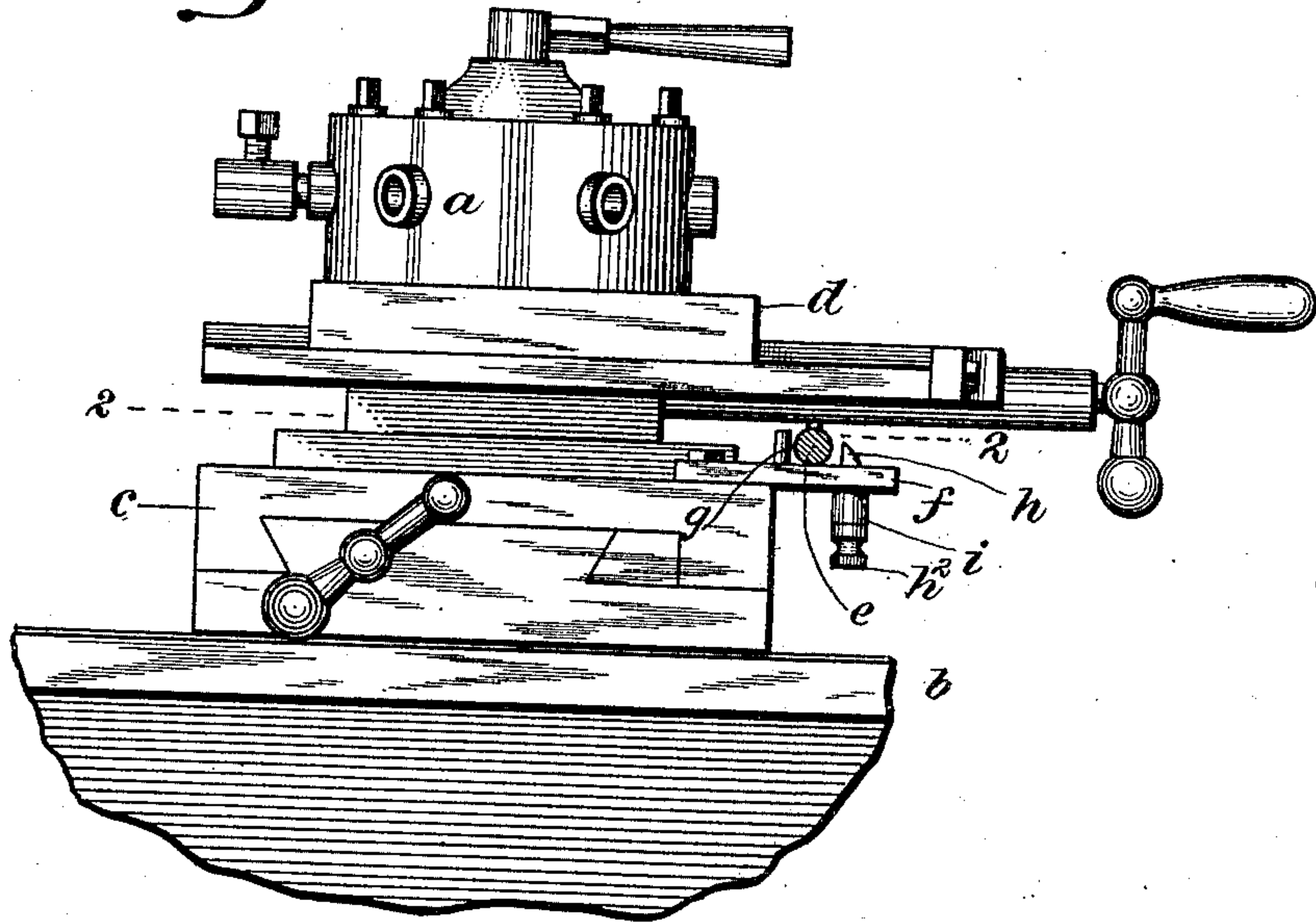


Fig. 2.

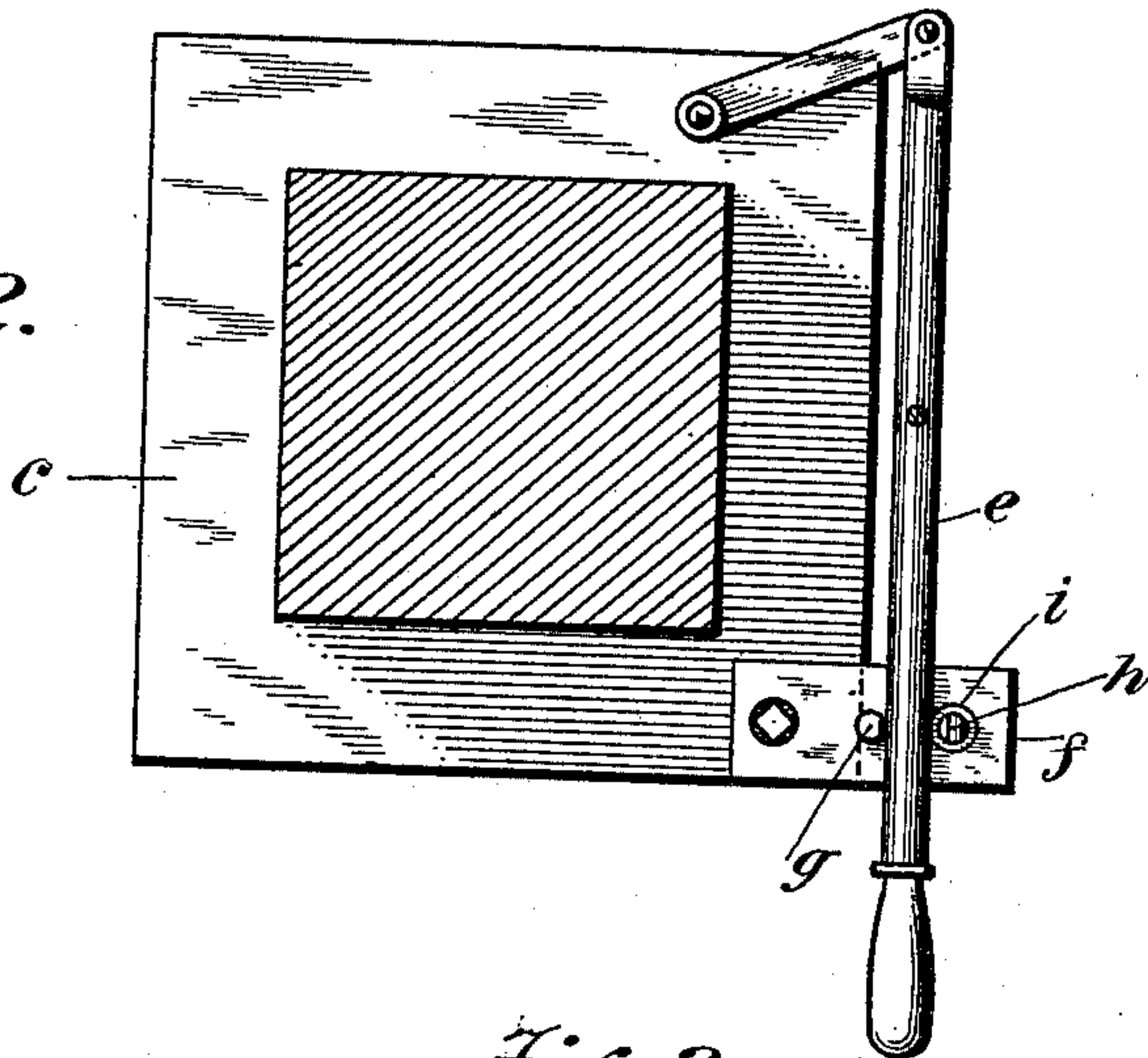
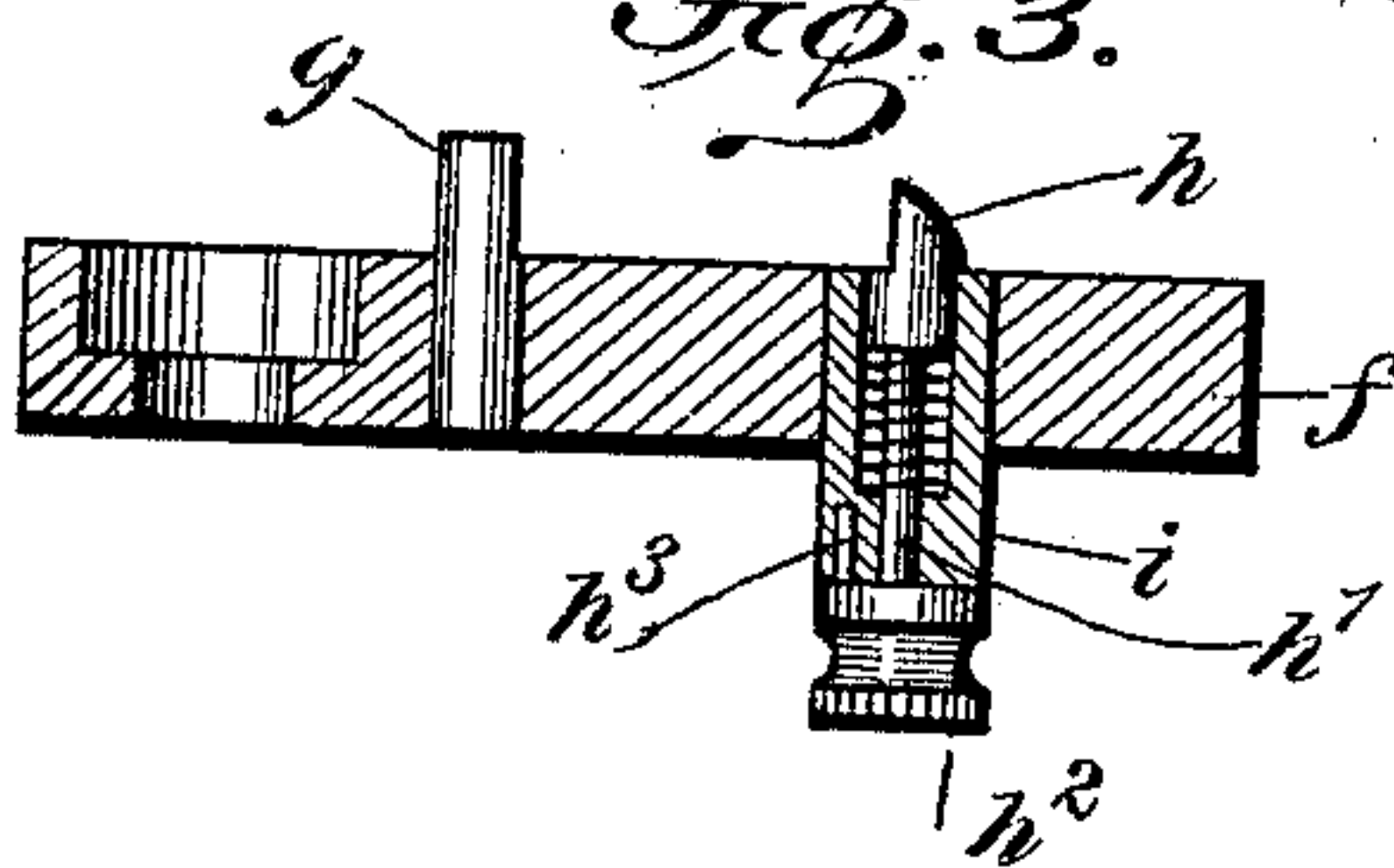


Fig. 3.



WITNESSES:

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# UNITED STATES PATENT OFFICE.

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## LATHE ATTACHMENT.

SPECIFICATION forming part of Letters Patent No. 697,819, dated April 15, 1902.

Application filed December 26, 1901. Serial No. 87,400. (No model.)

*To all whom it may concern:*

Be it known that I, WILLIAM HENRY DENT, a citizen of the United States, and a resident of the city of New York, borough of Manhattan, in the county and State of New York, have invented a new and Improved Lathe Attachment, of which the following is a full, clear, and exact description.

This invention relates to a device adapted to be used in connection with turret-lathes to hold the turret in active or forward position and adapted to avoid the necessity of the clutch and T-wrench previously employed for this purpose.

The invention comprises a peculiarly-constructed spring-catch adapted to be engaged by the turret arm or lever to hold such arm forward, thus keeping the turret in operative position.

This specification is a specific description of one form of the invention, while the claims are definitions of the actual scope thereof.

Reference is to be had to the accompanying drawings, forming a part of this specification, in which similar characters of reference indicate corresponding parts in all the views.

Figure 1 is a side view of the turret of the lathe, showing the invention applied. Fig. 2 is a sectional plan view thereof on the line 2-2 in Fig. 1, and Fig. 3 is a detail sectional view of the attachment.

*a* indicates the turret, and *b* the bed of the lathe.

*c* indicates the lateral slide, and *d* the longitudinal slide.

*e* indicates the hand-lever for moving the slide *d*, which carries the turret *a* and adjusts the longitudinal position of the turret. My invention consists in a device for holding the lever *e* in the forward or leftward position, as shown in Figs. 1 and 2.

*f* indicates the body or supporting plate of the invention. This is adapted to be fastened to the slide *c*, as shown, the position of the plate *f* being such that the lever or arm *e* will swing directly over the plate.

*g* indicates a stop-pin carried on the plate *f*, and *h* indicates a spring-latch fitted in a sleeve *i*, in turn secured to the plate *f*. The stem *h'* of the latch *h* plays in the sleeve *i* and carries a head *h<sup>2</sup>* in position to be grasped in the fingers of the operator, so as to draw

down the latch *h* when desired. A spring contained within the sleeve *i* acts to throw the latch *h* into normal position.

*h<sup>3</sup>* indicates a pin carried by the head or finger-piece *h<sup>2</sup>* and adapted when the head is drawn down and slightly turned to press against the lower end of the sleeve *i*, thus holding the latch *h* below the top of the plate *f*, and consequently inoperative.

When the lever or arm *e* is thrown forward, it rides over the latch *h* and the latch returns to its raised position, thus holding the lever securely in the desired adjustment. To return the lever, the finger-piece *h<sup>2</sup>* of the latch *h* may be drawn downward, thus releasing the lever or arm. If it be desired to hold the latch lowered into inoperative position, this may be effected by turning the finger-piece *h<sup>2</sup>* so that the pin *h<sup>3</sup>* moves out of registry with the opening in the sleeve *i*, whereupon the spring of the latch *h* will press the pin against the lower end of the sleeve and the latch will be held in its downward adjustment.

Various changes in the form and details of my invention may be resorted to at will without departing from the spirit of my invention. Hence I consider myself entitled to all forms of the invention as may lie within the intent of my claims.

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

1. A turret-lathe attachment, comprising a body-plate adapted to be fastened to the lateral turret-slide and to project therefrom, a spring-latch carried by the body-plate and normally projecting from the face thereof in the path of the turret-operating arm or lever, a stop-pin carried by the said body-plate at one side of the latch, and means for holding the latch in inactive position, as set forth.

2. A lathe attachment, comprising a body-plate, a sleeve fitted therein and projecting from one face thereof, a spring-latch carried in the sleeve and beveled on its outer side, a head or finger-piece on the stem of the latch at the projecting end of the sleeve, a pin projecting from the head or finger-piece of the latch, and adapted to engage the end of the sleeve to hold the latch inactive, the said pin normally engaging an opening in the said

sleeve, and a stop-pin projecting from the face of the body-plate at the inner side of the latch.

3. A lathe attachment, comprising a body-  
5 plate adapted to be fastened to the lathe, a sleeve secured in the body-plate and flush with the upper surface thereof, the sleeve projecting below the lower face of the plate, a spring-latch carried in the sleeve and hav-  
10 ing a stem extending through a contracted opening in the lower part of the sleeve, a head or finger-piece on the lower end of the stem, and adapted to normally engage the lower end of the sleeve, an upwardly-extending pin  
15 on said head and adapted to engage an open-

ing in the lower end of the sleeve, the head or finger-piece of the latch, when drawn down to retract the latch being capable of being turned to move the pin out of registry with said opening to hold the latch retracted, and 20 a stop-pin projecting upward from the plate at one side of the latch as set forth.

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

WILLIAM HENRY DENT.

Witnesses:

GEORGE A. WAGNER,  
JOHN H. MALONE.