

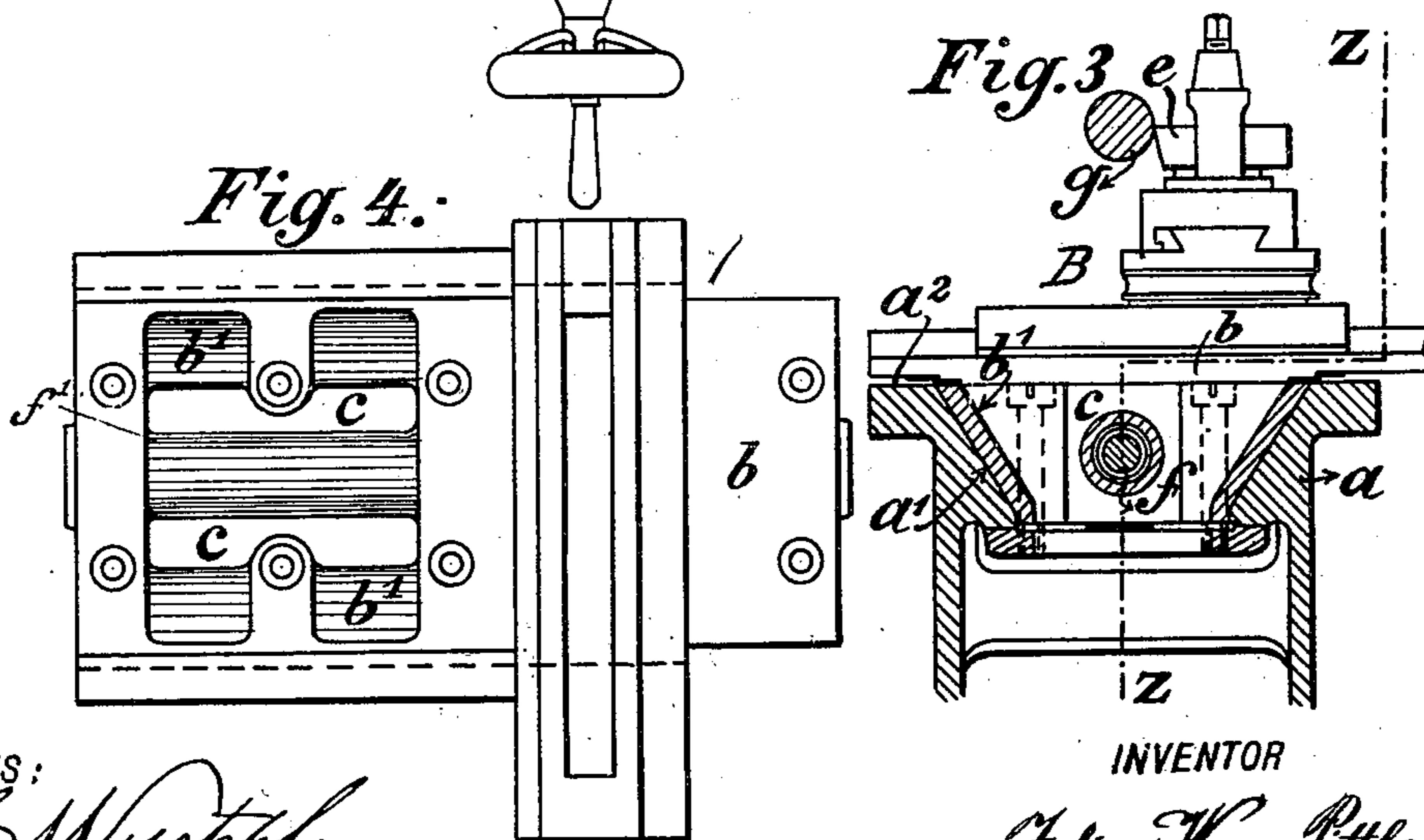
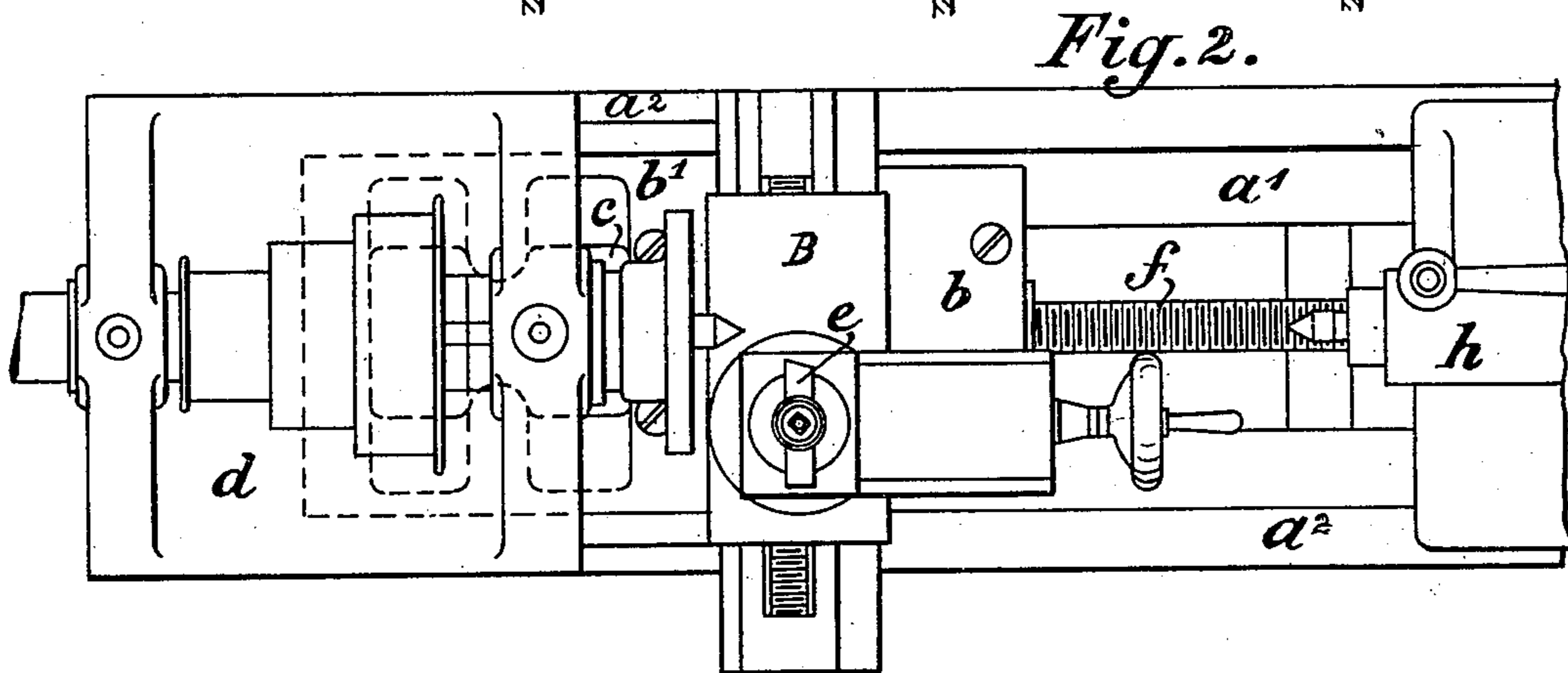
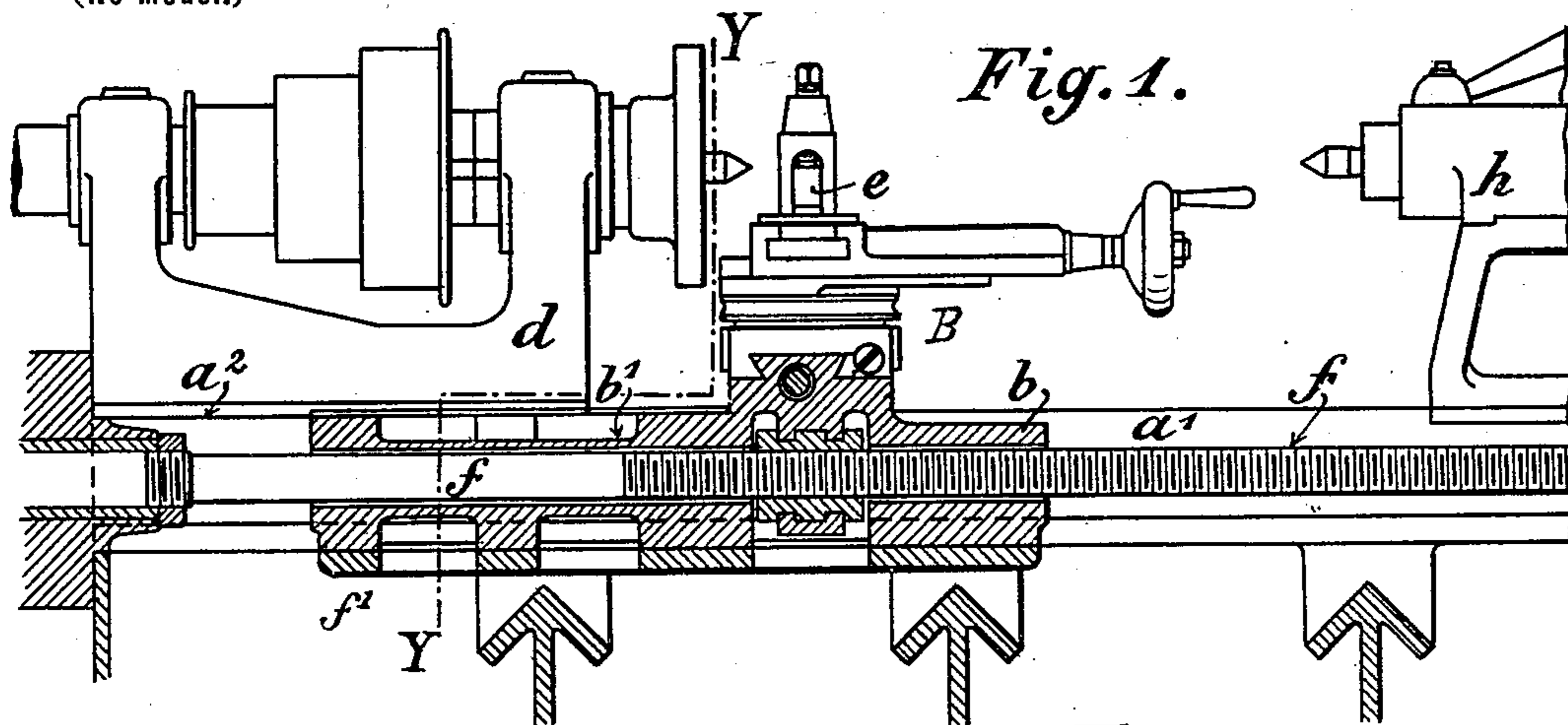
No. 677,695.

Patented July 2, 1901.

J. W. VON PITTLER.  
SLIDE REST FOR LATHES.

(Application filed June 28, 1899.)

(No Model.)



WITNESSES:

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# UNITED STATES PATENT OFFICE.

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TO THE LEIPZIGER WERKZEUG MASCHINEN FABRIK, VORMALS W. V.  
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## SLIDE-REST FOR LATHES.

SPECIFICATION forming part of Letters Patent No. 677,695, dated July 2, 1901.

Application filed June 28, 1899. Serial No. 722,129. (No model.)

*To all whom it may concern:*

Be it known that I, JULIUS WILHELM VON PITTLER, a citizen of Germany, residing at Leipsic-Gohlis, in the Kingdom of Saxony, and in the Empire of Germany, have invented certain new and useful Improvements in Slide-Rests for Lathes, of which the following is a specification.

This invention relates to a slide-rest for lathes by which the guideways of the frame or bed of the lathes are covered in such a manner by the slide-rest as that the shavings, as well as the lathe-tools which are laid on the machine, cannot come in contact with the guideways of the frame.

It is well known that in all lathes the slide-rest requires long rails at its sides, while the transverse ways of the slide-rest have to be so narrow as that the tail-stock can be placed close to the head-stock of the lathe. For attaining this object the guideways of the frame or bed along which the carriage of the slide-rest is guided are usually so arranged that the carriage can be moved outside of the head and tail stocks, whereby the long side rails of the carriage can be moved along both sides of the head and tail stocks; but they always have to be narrow. The ways of the bed or frame are always uncovered and are not protected against the shavings which drop from the piece of work, so that they easily lodge between the faces of the relatively-moving parts or contact-surfaces and injure them. The faces of the ways are also frequently injured by the tools in the same way.

The object of the present invention is to overcome these defects by an improved construction of slide-rest; and the invention consists of certain features of construction and combinations of parts to be hereinafter described and then claimed.

In the accompanying drawings, Figure 1 represents a longitudinal section of a lathe provided with my slide-rest, parts being in elevation, such section being taken on line Z Z, Fig. 3. Fig. 2 is a plan view of the same. Fig. 3 is a vertical transverse section on the line Y Y, Fig. 1; and Fig. 4 is a detail plan view of the carriage of the slide-rest.

Similar letters of reference indicate corresponding parts.

Referring to the drawings, *a* indicates the frame or bed of the lathe, which is provided with side flanges *a*<sup>2</sup> and with deep guideways *a'*, that extend both below the head-stock *d* and the tail-stock *h*, so that the long carriage *b* of the slide-rest B can be continued directly under the head-stock *d*, whereby large contact-surfaces are obtained. Notwithstanding this arrangement it is possible to bring the carriage *b* close to the head-stock *d*, and the guideways *a'* of the frame *a* are thus always covered at the working point, so that the shavings cannot pass between the relatively-moving parts—that is to say, sliding contact-surfaces. Any form of ways may of course be used.

The carriage *b* of the slide-rest has between its side ways or rails *b'* a longitudinal opening or openings *c*, the walls of which are inclined and through which the shavings may be conducted into a suitable receptacle supported on the frame of the lathe, but not shown in the drawings.

The screw-spindle of the lathe is inclosed by a sleeve *f'* of carriage *b*, which prevents the shavings made by tool *e* from the piece of work *g* from coming in contact with the screw-spindle and interfering with it.

Having thus described my invention, what I claim is—

The combination, with a lathe-frame provided with guideways extending under the head-stock and tail-stock, of a slide-rest, the carriage of which is longitudinally extended and guided in said ways, and said carriage being provided with a drop-opening for conducting off the falling shavings and chips, a screw-spindle for feeding the carriage, said spindle passing through said drop-opening, and a protecting-sleeve in said opening and inclosing said spindle, substantially as set forth.

In testimony that I claim the foregoing as my invention I have signed my name in presence of two subscribing witnesses.

JULIUS WILHELM VON PITTLER.

Witnesses:

R. VOIGTLANDER,  
RUDOLPH FRICKE.