

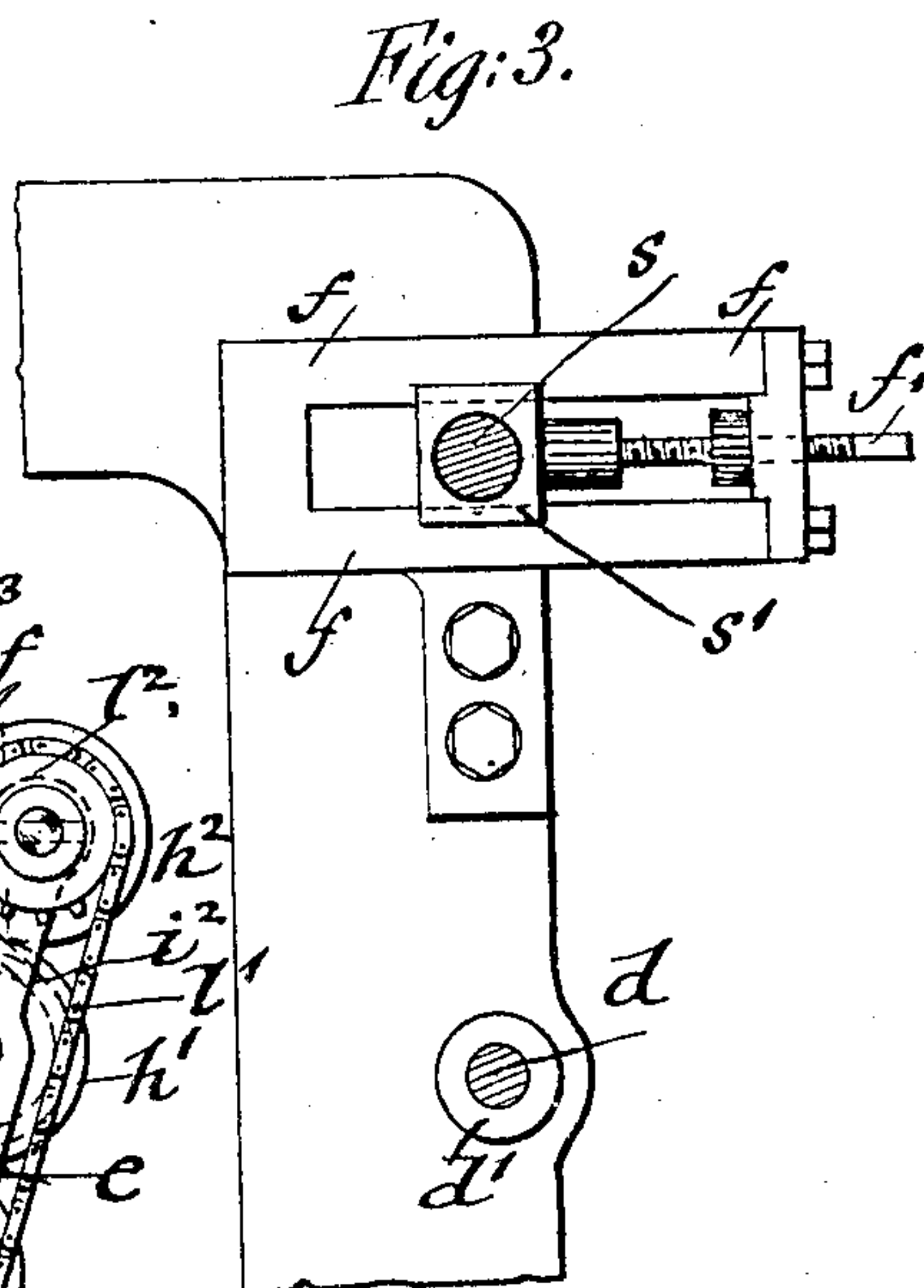
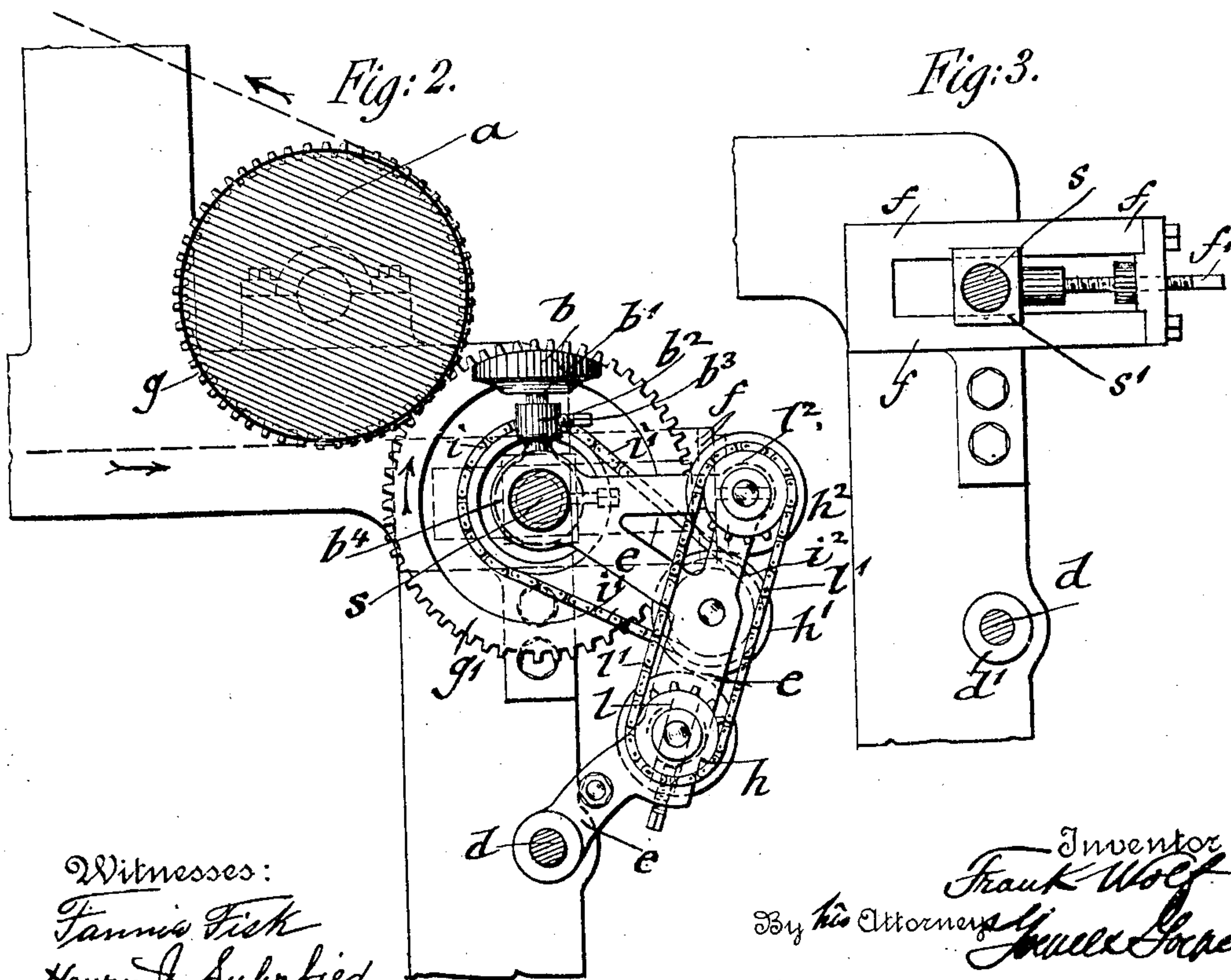
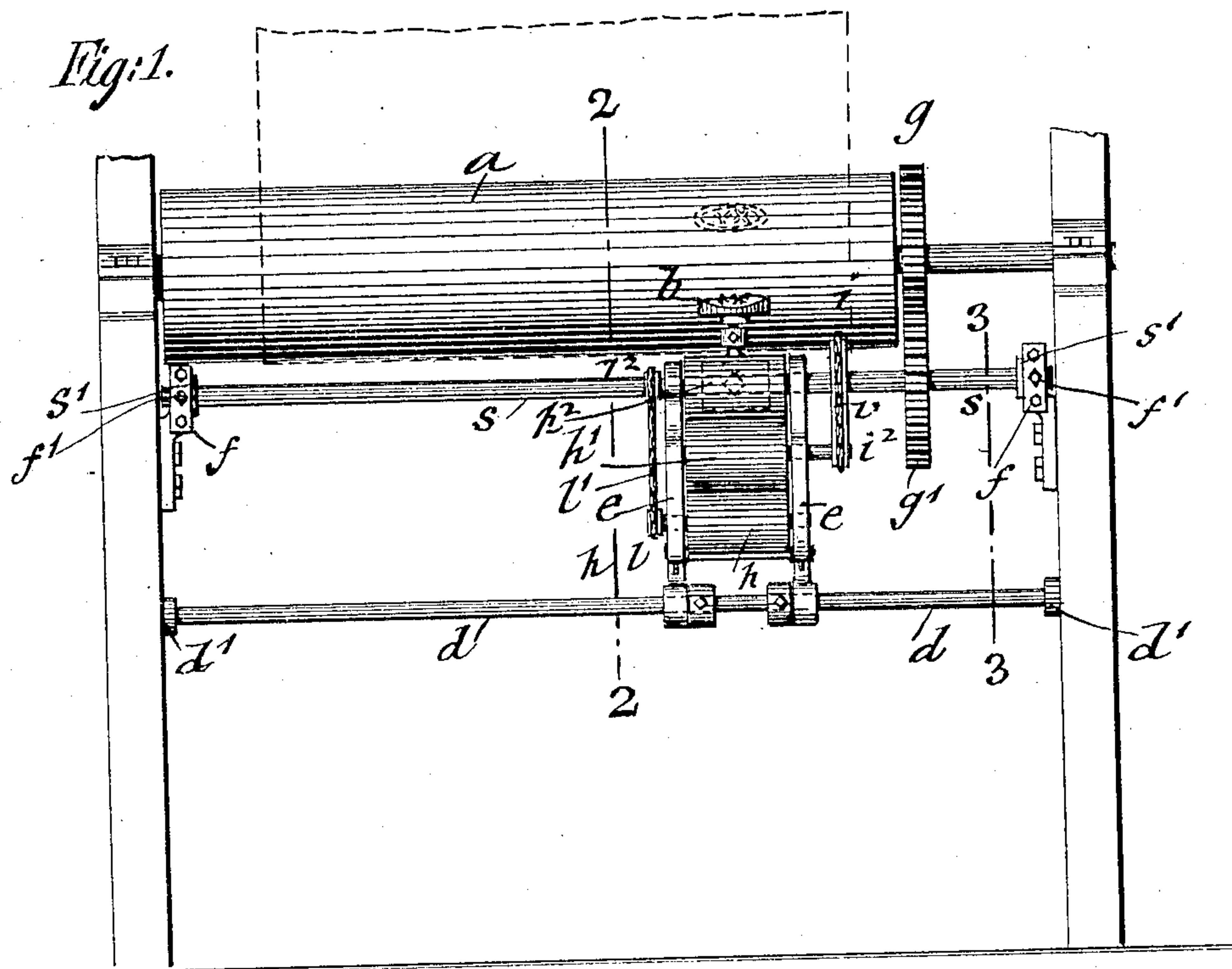
No. 882,283.

PATENTED MAR. 17, 1908.

F. WOLF.

STAMPING ATTACHMENT FOR CLOTH MEASURING MACHINES.

APPLICATION FILED OCT. 30, 1907.



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UNITED STATES PATENT OFFICE.

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STAMPING ATTACHMENT FOR CLOTH-MEASURING MACHINES.

No. 882,283.

Specification of Letters Patent.

Patented March 17, 1908.

Application filed October 30, 1907. Serial No. 399,844.

To all whom it may concern:

Be it known that I, FRANK WOLF, a citizen of the United States of America, residing in New York, in the borough of Manhattan, county and State of New York, have invented certain new and useful Improvements in Stamping Attachments for Cloth-Measuring Machines, of which the following is a specification.

This invention relates to an improved stamping attachment for cloth measuring machines by which woolen and other cloths can be readily stamped on the back, at uniform distances, in a quick, effective and reliable manner.

All dealers in woolen and other cloths are using cloth-measuring machines for taking stock at certain intervals of time. The object of this invention is to utilize these machines for stamping the woolen and other fabrics while they are passed through the machine with a stamp indicating the origin of the fabrics and the quality of the same. For this purpose the invention consists of a stamping attachment for cloth measuring machines which comprises a rotary driving-roll, a rotary stamp, means for bringing the stamp intermittently in contact with the back of the cloth passing over the driving-roll, and means for supplying the color to the stamp from a suitable color-transferring mechanism. The invention consists further of certain details of construction which will be fully described hereinafter and finally pointed out in the claim.

In the accompanying drawings, Figure 1 represents an end-elevation of my improved stamping attachment for cloth measuring machines, shown as supported on the frame of the said machine, Fig. 2 is a vertical transverse section on line 2, 2, Fig. 1, drawn on a larger scale, and Fig. 3 is a transverse section on line 3, 3, Fig. 1.

Similar letters of reference indicate corresponding parts throughout the several figures.

Referring to the drawings, *a* is a driving-roll of a cloth measuring machine, which driving-roll is supported in bearings of the framework of a cloth measuring machine of any approved construction. The cloth passes over the roll when measuring the same and is placed intermittently in contact, preferably at every full rotation of the driving-roll, with a stamp *b* having a convex face of a curvature the radius of which is equal to the

radius of the driving-roll of the cloth measuring machine. The stamp *b* is provided with a shank *b*¹ which is inserted in a socket *b*² having a set screw *b*³ so as to be capable of adjustment for use with thinner or heavier fabrics. For a thinner fabric, the stamp has to be adjusted somewhat closer to the fabric passing over the driving-roll *a*, while for stamping heavier fabric the stamp is adjusted farther away from the circumference of the same. The socket *b*² is supported on a sleeve *b*⁴ which is adjustably fixed on an auxiliary shaft *s* which turns in bearings *s*¹ of the supporting-frame of the cloth measuring-machine, the bearings being guided in a horizontal guide-frame *f* and adjusted by a set-screw *f*¹, as shown clearly in Fig. 3. Both bearings of the auxiliary shaft *s* are supported in the guide-frame *f* so as to be capable of slight adjustment relatively to the driving-roll *a*.

On the shaft of the driving-roll *a* is arranged a gear-wheel *g* which meshes with a gear-wheel *g*¹ of equal size on the auxiliary shaft *s*, so that rotary motion is imparted to the shaft *s* and thereby to the stamp *b* supported thereon. The circumference of the driving-roll *a* is preferably equal to one yard so that at every full rotation of the driving-roll the stamp is placed in contact with the cloth passing over the driving-roll. By changing the size of the gear-wheel *g*¹, the distance between the stampings may be changed.

Below the auxiliary shaft *s* is arranged a transverse rod *d* which is supported in sockets *d*¹ of the supporting-frame. The rod *d* supports the lower ends of two upright bracket-frames *e* which are applied loosely by means of sleeves at their upper ends to the shaft *s*, and which are provided at their outermost ends with bearings for three rolls *h*, *h*¹, *h*², of which the lower is the color-roll which receives its color from a suitable color-supply, either by hand or a fountain, the intermediate roll *h*¹ being a transmitting-roll, and the upper one *h*² being a transfer-roll. The intermediate roll *h*¹ receives rotary motion by a sprocket-wheel and chain transmission *i*, *i*¹, *i*² from the shaft *s*, which motion is transferred to the color-roll by placing the latter in frictional contact with the intermediate roll. The rotary motion of the color-roll *h* is then transferred by a second sprocket-wheel and chain transmission *l*, *l*¹, *l*² to the transfer-roll *h*², the latter

being placed at each rotation of the stamp *b* in contact with the same for transferring the required amount of color to the face of the stamp.

5 The bracket-frames *e* swing on the rod *d* when the bearings of the rotary shaft are adjusted by the set-screws *f*, so that the position of the shaft and stamp relatively to the cloth driving-roll is adjusted accord-
10 ing to the thickness of the fabric without, however, changing the position of the color-rolls relatively to the stamp.

When the cloth is passed over the driving-roll, the stamp will at certain regular inter-
15 vals of time be moved into contact with the rear side of the cloth and transfers the color; which is received from the transfer-roll, at a distance of approximately a yard more or less automatically to the cloth, owing to the
20 transfer of the color to the stamp and the intermittent contact of the same with the cloth. The cloth is thereby stamped in a clear and distinct manner as the stamp moves in contact with the cloth, while meas-
25 uring the same, or independently of the measuring of the cloth, without special expense and loss of time in handling the cloth.

The attendant stands in front of the attachment and watches the proper printing
30 of the stamp while regulating the position of the stamp relatively to the cloth, as well as the position of the bracket frames and their color-rolls relatively to the cloth to be stamped, so that a clear transfer of the color
35 from the stamp to the cloth is obtained what-

ever be the thickness of the cloth. Light and heavy cloths can be stamped in this manner, the stamp indicating thereby the origin and quality of the goods, trade-mark and other information on every yard of cloth and 40 keeping it before the tailors or other customers when working up the cloth.

Instead of a cloth measuring machine, any other machine, or even an ordinary driving-roll to which motion is imparted by hand or 45 other power, may be used for operating the stamping attachment.

Having thus described my invention, I claim as new and desire to secure by Letters Patent: 50

In a stamping attachment for cloth measuring machines, the combination, with a driving-roll, of a rotary shaft connected therewith to be rotated thereby, a stamp mounted on said shaft, a rod below said 55 shaft, bracket-frames applied at their lower ends to said rod and extending loosely around the rotary shaft at their upper ends, means for adjusting the shaft and stamp relatively to the driving-roll, color-rolls 60 journaled between said bracket-frames, and means for driving said color-rolls.

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

FRANK WOLF.

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