

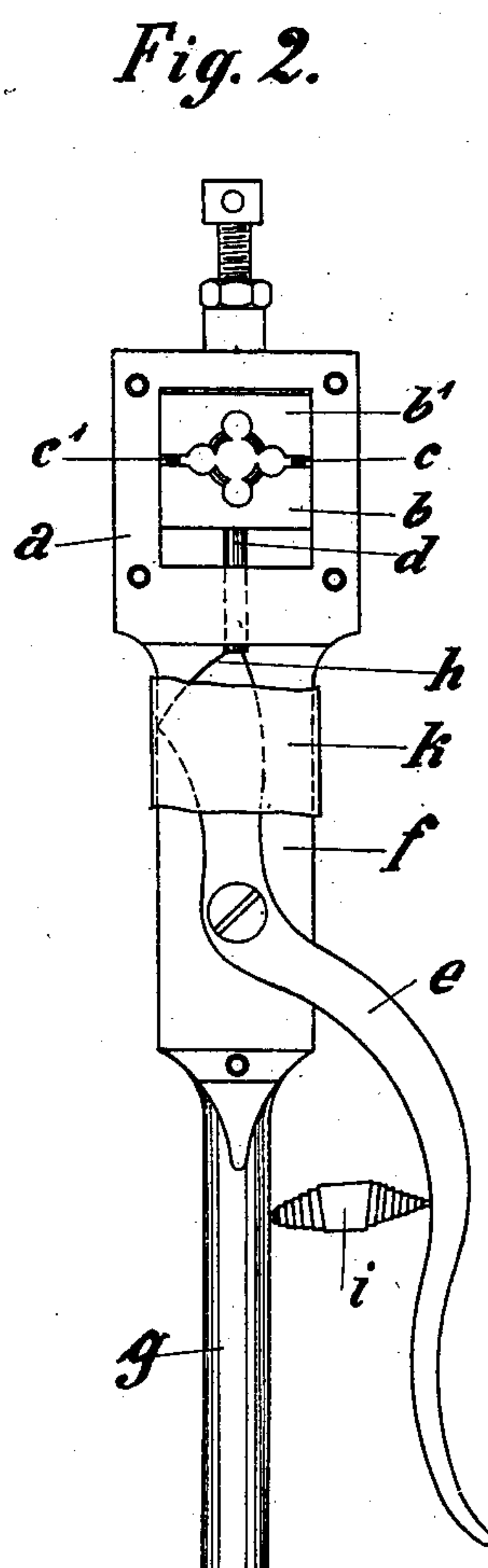
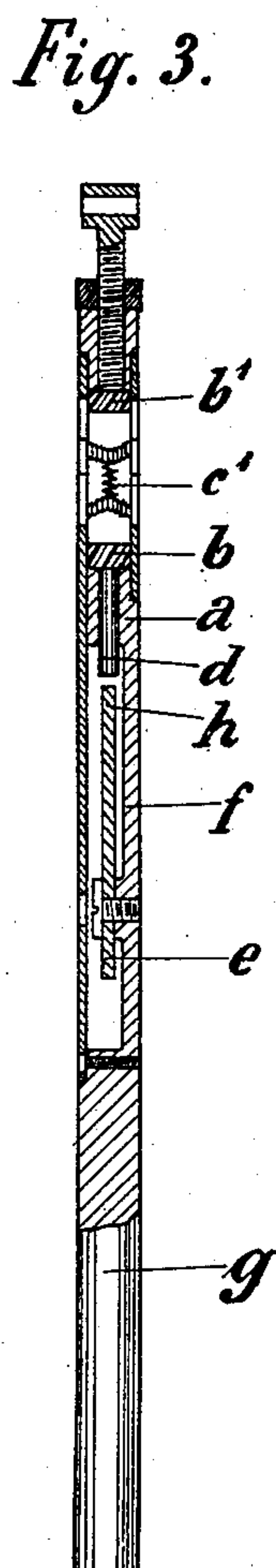
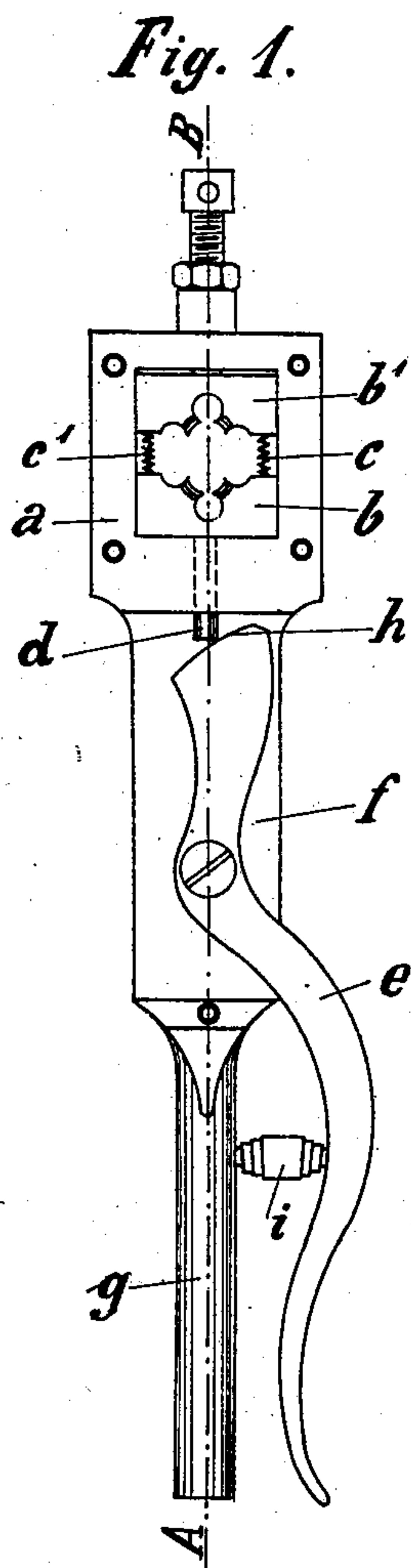
No. 721,719.

PATENTED MAR. 3, 1903.

E. MENGEL.
SCREW STOCK.

APPLICATION FILED JUNE 24, 1902.

NO MODEL.



Witnesses:
Otho König
Emil Blumberg

Inventor:
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UNITED STATES PATENT OFFICE.

EWALD MENGEL, OF BARMEN, GERMANY.

SCREW-STOCK.

SPECIFICATION forming part of Letters Patent No. 721,719, dated March 3, 1903.

Application filed June 24, 1902. Serial No. 112,983. (No model.)

To all whom it may concern:

Be it known that I, EWALD MENGEL, a subject of the King of Prussia, Emperor of Germany, and a resident of Jägerstrasse 72^a, Bar-
men, in the Kingdom of Prussia, Germany, have invented a new and useful Improvement in Screw-Cutting Devices, of which the following is a specification.

In the screw-cutting devices hitherto introduced with a device for removing the dies from the work the disadvantage is found that the dies cannot likewise be automatically brought up to their work.

This invention relates to screw-cutting devices in which the dies are separated automatically by operating a lever and put into the working position automatically by the releasing of the lever, so that the dies are at once ready for use when the piece of work is removed.

In the accompanying drawings, Figure 1 represents a front elevation of an implement embodying my invention, the parts being arranged in open position as to the dies. Fig. 2 represents the same with the dies closed for operation; and Fig. 3 represents a vertical section on the line A B, Fig. 1.

The construction of the tool is as follows: In a bored-out part of the frame *a*, in which the screw-cutting dies *b b'*, with the springs *c c'* arranged between them, are seated, a movable pin *d* is inserted, which acts on the die *b*. The pin is operated by a lever *e*, which is mounted on the broad extension *f* of the handle *g* and is formed as a cam at its shorter end. The lever *e* is held in the working position by a spring *i*, placed between the lever and the handle *g*, the stroke of the shorter arm of the lever being limited by the sides of the cover-plate *k*.

The operation is as follows: The rod into which the screw-thread is to be cut is inserted between the dies while the lever *e* is pressed by hand toward the handle *g*, as in Fig. 1, leaving the springs *c c'* free to separate the dies for such insertion. The operator's hand being removed, the spring *i* acts outwardly on the said lever, so as to make its cam *h* push upward the pin *d* and the lower die *b*, compressing the springs *c c'* and, as shown in Fig. 2, causing the dies to grasp the rod between them. The handle *g* is then turned to make the dies cut the screw-threads on the rod. The lever *e* is then grasped and forced inward, again compressing the spring *i* and turning the cam *h* into the position shown in Fig. 1, so that the pin *d* and lower die *b* are forced down by springs *c c'*, leaving the rod that is to be threaded free for withdrawal or for shifting into position for withdrawal.

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

In a screw-cutting implement the combination of a handle, a pair of dies and die-frame with springs for forcing the dies apart, a pin attached to the lower die, a lever provided with a cam arranged to act against said pin, and a spring acting against said lever to make it close said dies by its action on said pin substantially as set forth.

In witness whereof I have hereunto set my hand in presence of two witnesses.

EWALD MENGEL.

Witnesses:

OTTO KÖNIG,
EMIL BLUMBERG.