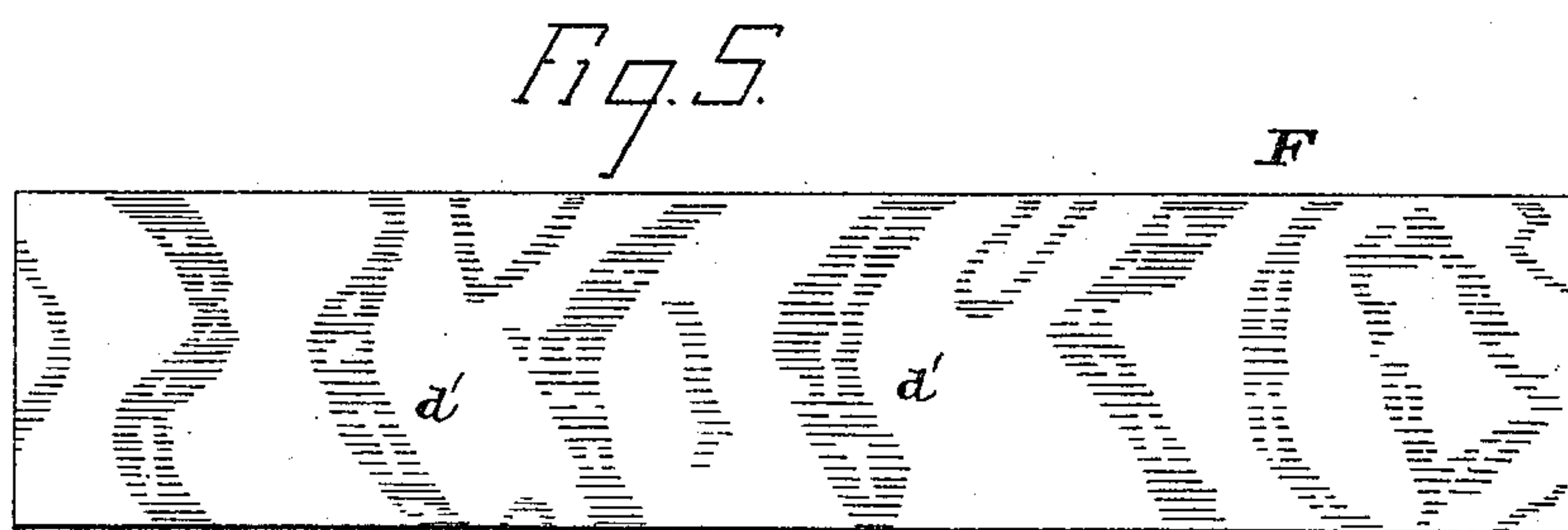
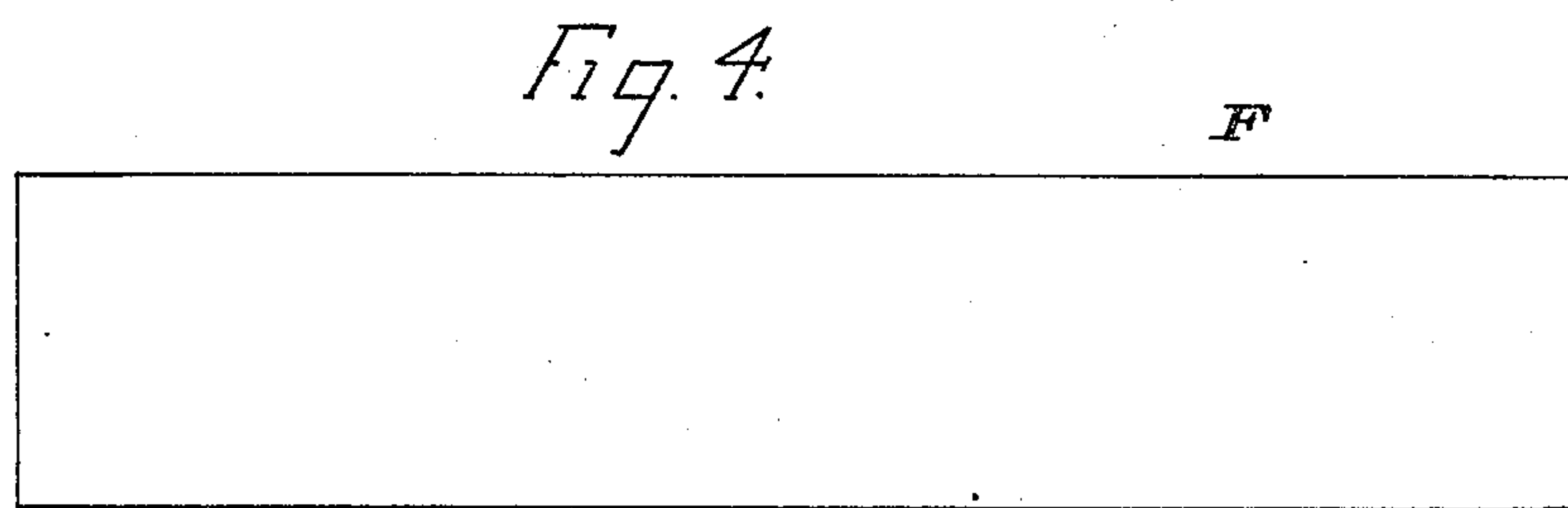
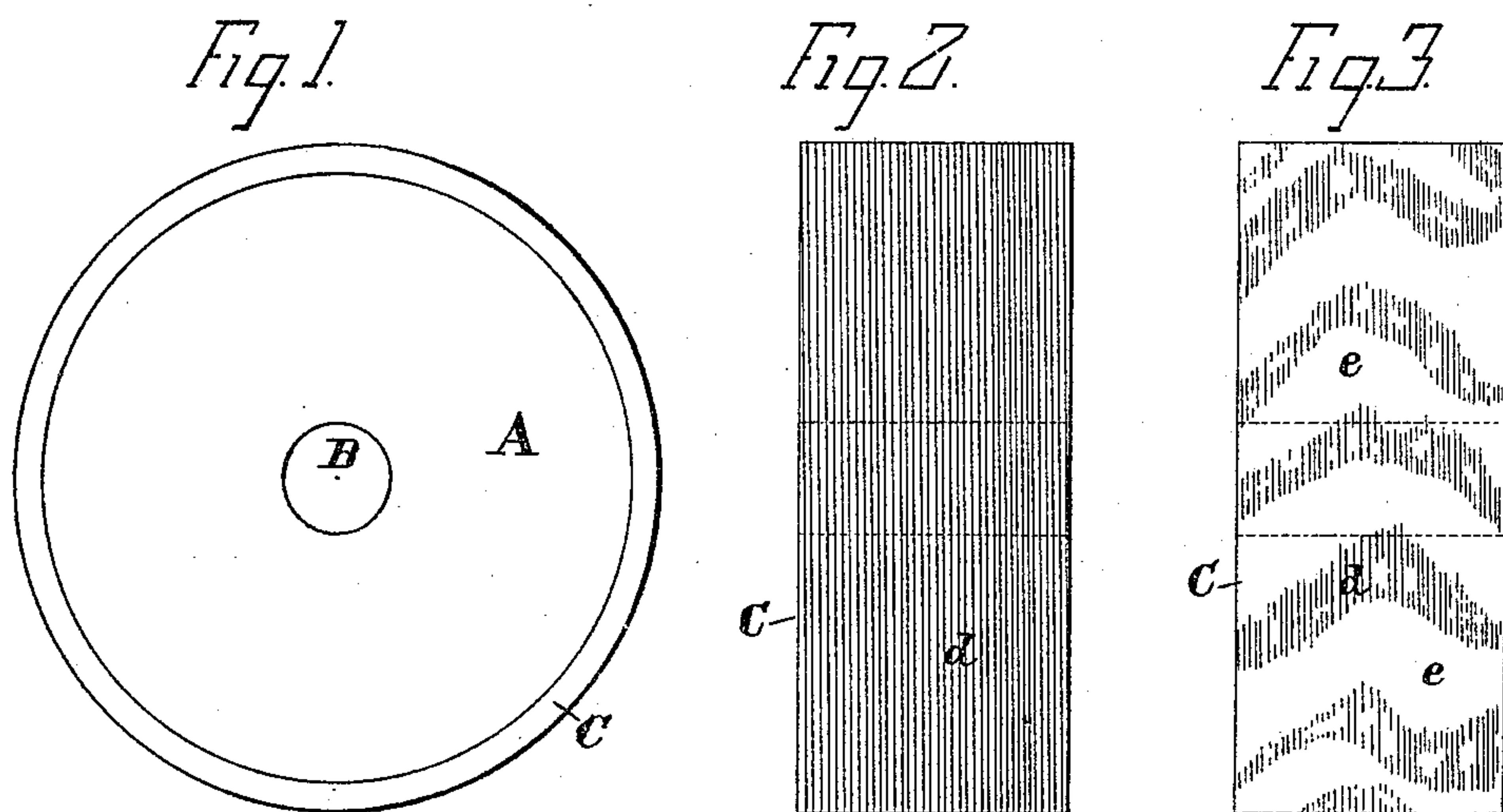


(No Model.)

W. H. LANDON.  
GRAINING ROLLER.

No. 449,079.

Patented Mar. 24, 1891.



WITNESSES:

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# UNITED STATES PATENT OFFICE.

WILLIS H. LANDON, OF BALTIMORE, MARYLAND, ASSIGNOR OF ONE-HALF  
TO BENJAMIN F. HUNT, OF SAME PLACE.

## GRAINING-ROLLER.

SPECIFICATION forming part of Letters Patent No. 449,079, dated March 24, 1891.

Application filed June 21, 1890. Serial No. 356,220. (No model.)

*To all whom it may concern:*

Be it known that I, WILLIS H. LANDON, a citizen of the United States, residing at Baltimore, in the State of Maryland, have invented certain new and useful Improvements in Graining-Rollers, of which the following is a specification.

My invention relates to improvements in graining-rollers for producing an imitation of a handsome grained wood on the surface of a soft wood.

In the drawings annexed, Figure 1 is a side view of my graining-roller. Fig. 2 is a face view of the roller, showing the first stage of its preparation. Fig. 3 is a view of the finished graining-roller. Fig. 4 shows a piece of soft wood, such as poplar, without grain that is distinguishable. Fig. 5 shows the same kind of wood with the imitation graining.

The graining-roller comprises an iron core A, having a central hole B for a shaft and a steel band or rim cover C. The roller, with the steel cover, is placed in a lathe and turned, and by means of a suitable cutting-tool a line-surface *d* is cut over its entire face, as shown in Fig. 2. This line-surface is readily formed by cutting a continuous spiral line on the steel cover B, and this is the first stage of preparation. A design for an imitation grain is then laid off on the lined face of the roller with a lead pencil, and a suitable cutting or routing tool is employed to remove portions *e* of the lined surface and leave other portions intact or in relief, as shown in Fig. 3. In this manner the steel cover of the roller may be engraved to show a design of any kind of wood grain. The roller is not required to have a flat face, as shown. It may have a face suited for molding of any design. In this case, however, the line-surface must be formed

by a tool that will cut unconnected ring-grooves instead of the spiral. A roller made and engraved in this manner is ready to be mounted in a suitable frame with suitable feed-rollers, so that when the rollers are in motion a board F of soft wood may be subjected to the action of the graining-roller and have the design which is engraved on the roller impressed or indented in the surface of the wood, as shown in Fig. 5. The indentations *d'* in the wood surface are made by those portions of the lined surface *d* on the roller which were left by the routing-tool.

The action of the roller on the board is simply to impress or indent the design into its surface.

Having described my invention, I claim—

1. The graining-roller herein described, consisting of the metal core A, provided with a steel band or rim cover C, having a design for an imitation wood grain on its surface, said design being a lined surface *d* in relief, said surface being substantially of the same height and having its lines extending in substantially the same direction, as set forth.

2. The method of preparing a graining-roller, consisting in first placing the roller in a lathe and turning it and cutting a continuous spiral line over the entire surface, and then with a suitable cutting or routing tool removing portions of the said lined surface, leaving the design formed by the spiral line in relief, as set forth.

In testimony whereof I affix my signature in the presence of two witnesses.

WILLIS H. LANDON.

Witnesses:

A. O. BABENDRIER,  
JNO. T. MADDOX.