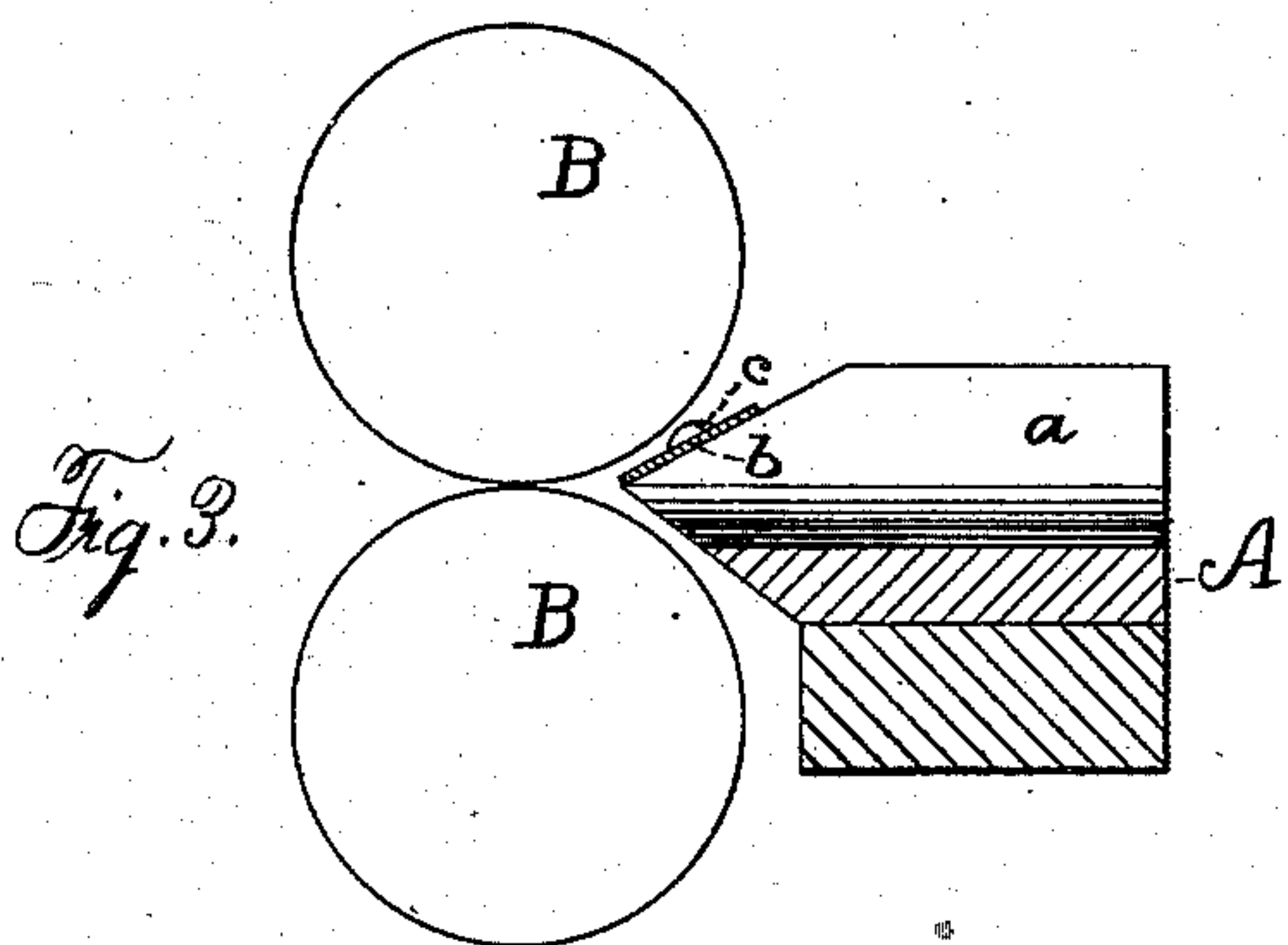
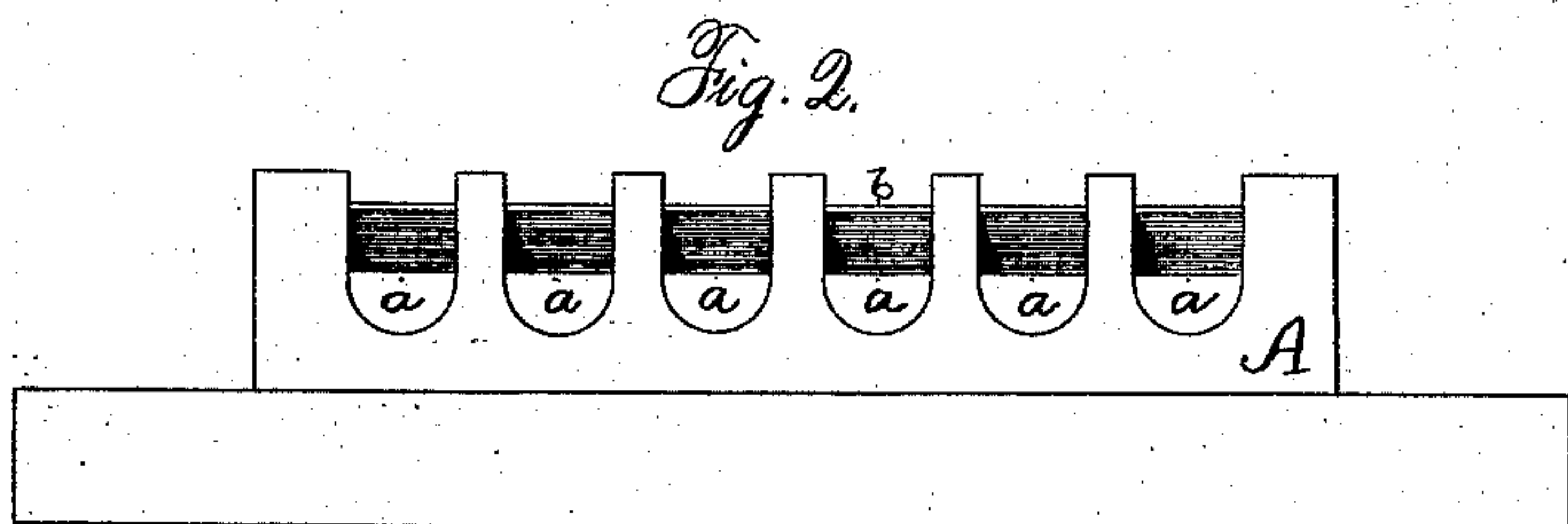
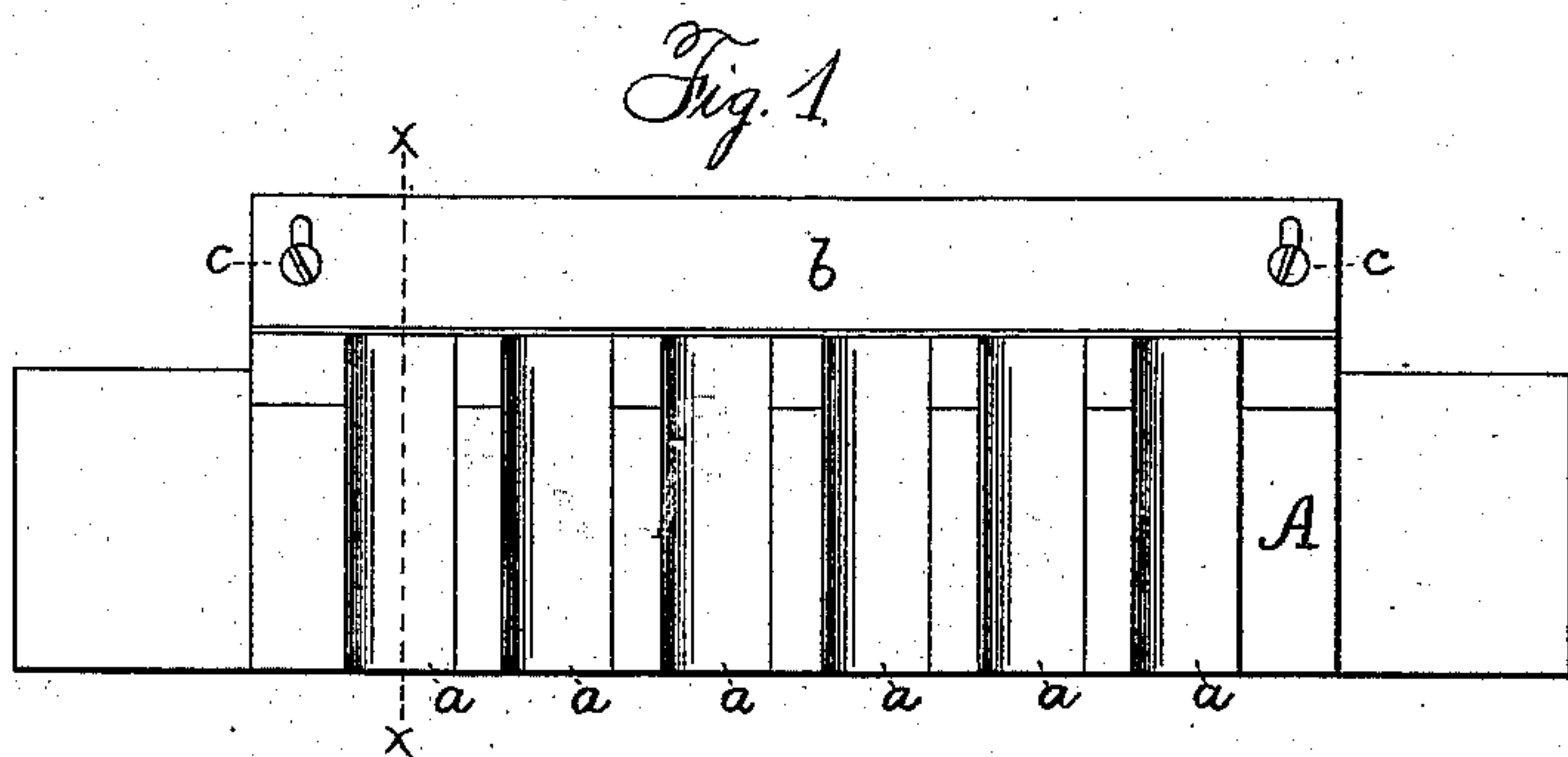


(No Model.)

A. A. SARGENT.
Roving Guide for Carding Machines.

No. 238,056.

Patented Feb. 22, 1881.



Witnesses,
John Edwards Jr.
Edward Magnus

Inventor,
Asa A. Sargent
By James Shepard
Atty.

UNITED STATES PATENT OFFICE.

ASA A. SARGENT, OF ROCKVILLE, CONNECTICUT, ASSIGNOR OF ONE-HALF
TO PHILETUS W. GOULD, OF PITTSFIELD, MASSACHUSETTS.

ROVING-GUIDE FOR CARDING-MACHINES.

SPECIFICATION forming part of Letters Patent No. 238,056, dated February 22, 1881.

Application filed July 12, 1880. (No model.)

To all whom it may concern:

Be it known that I, ASA A. SARGENT, of Rockville, in the county of Tolland and State of Connecticut, have invented certain new and useful Improvements in Roving-Guides for Carding-Machines, of which the following is a specification.

My invention relates to improvements in roving-guides in which the roving extends through a series of concave-bottomed grooves and in which the roving is held down upon the bottom of said grooves at the exit end by means of an inclined plate; and the objects of my improvements are to guide the roving in a better manner than heretofore so that the threads will not run together and so that the roving will not turn over in its passage through the guides, whereby it will be guided much more accurately through the machine than it could be in the ordinary manner; also, to so guide the roving that the outside threads will be as perfect as the inside ones. I attain these objects by the mechanism illustrated in the accompanying drawings, in which—

Figure 1 is a plan view; Fig. 2, a rear elevation; Fig. 3, a vertical section on line *x x*, of Fig. 1, together with the outlines of the carding-rollers.

A designates the guide-bar, which will extend substantially from end to end of the carding-machine, and is provided with a series of concave-bottomed grooves, *a*. The front or inner end of this bar A is beveled off, substantially as shown, so as to enter close in between the rolls, (indicated at B B, Fig. 3,) the same being preferably set with the point or angle of the two bevels a little above a horizontal line passing between the rollers B B. The upper beveled side of the bar A is provided with an adjustable guide-plate, *b*, which is designed for use in holding down the roving as it passes through the grooves *a* and between the rollers B B. This plate is secured by means of screws *c c*, which pass through slots in the

end of the plate *b*, and by loosening which screws the plate may be adjusted farther up or down the incline, and thereby regulate the size of the hole through the guide at the delivery end, and adapt it to rovings of different sizes. The object of this plate *b* is to confine the roving upon the concave bottom of the grooves *a*, and as it comes from off the cylinder upon which it is wound it is flattened more or less, and this guide-plate holds the roving in that position, and prevents it from turning up edgewise, so that the guides deliver it in a straight and direct manner to the rollers B B. Were it not for the guide-plate *b* the roving would twist and turn up edgewise, and if that in one guide should turn up one way and in the adjoining guide the opposite way the two rovings would run together immediately after passing through the guides, and consequently the roving would not be fed evenly through the rollers. Such a result is wholly avoided by the use of my improved guide.

By reason of the guides being so constructed as to feed each stand directly to its own ring the guides are very useful for use with alternate colors for making imitation twist.

I claim as my invention—

1. The guide-bar A, provided with a series of concave-bottomed grooves *a*, in combination with the plate or wall which covers the upper side of said grooves at their exit end, and mechanism for adjusting said upper wall, substantially as described, and for the purpose specified.

2. The guide-bar A, provided with a series of concave-bottomed grooves *a*, in combination with the inclined plate *b* at the exit end of said guides, substantially as described, and for the purpose specified.

ASA A. SARGENT. [L. S.]

Witnesses:

J. F. RANSOM,
A. T. BISSELL.