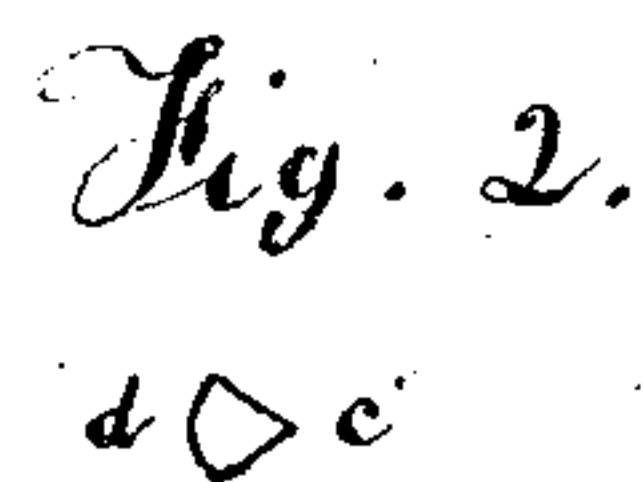
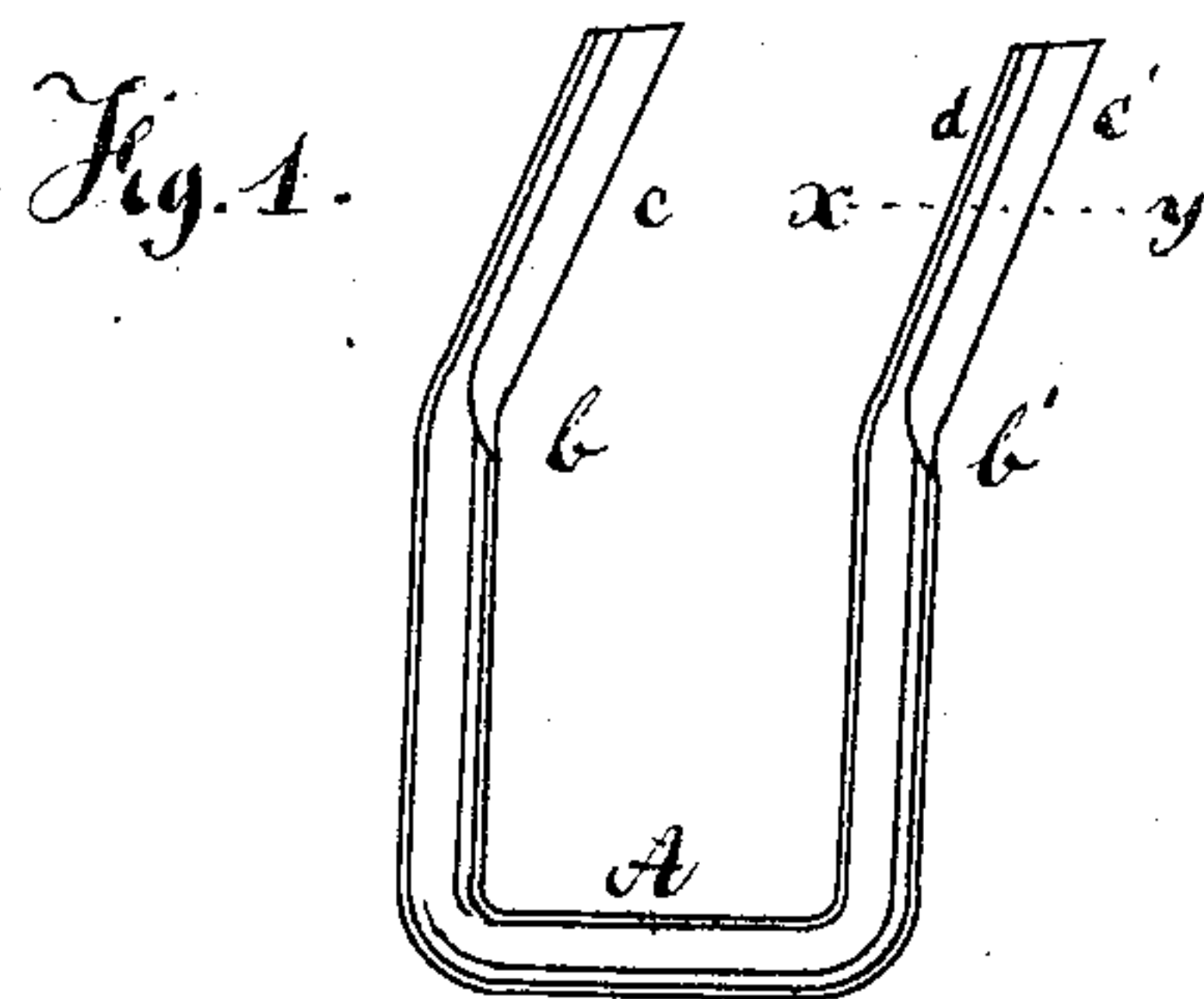


C. HINDLE, J. C. MILTON & O. ARNOLD.

Improvement in Teeth for Carding-Machines.

No. 129,662.

Patented July 23, 1872.



Witnesses  
Peter Dunn }  
Sam'l. Gales }

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by their Attorney  
James G. Arnold

# UNITED STATES PATENT OFFICE.

CHARLES HINDLE, JOHN C. MILTON, AND OLIVER ARNOLD, OF WORCESTER,  
MASSACHUSETTS.

## IMPROVEMENT IN TEETH FOR CARDING-MACHINES.

Specification forming part of Letters Patent No. 129,662, dated July 23, 1872.

Specification describing certain Improvements in Carding-Machine Teeth, invented by CHARLES HINDLE, JOHN C. MILTON, and OLIVER ARNOLD, all of the city and county of Worcester, State of Massachusetts.

Our invention relates to the forming of a portion of the tooth near each point with an edge, so that a sharp point may be easily kept thereon, in combination with a round form of the rest of the tooth, for the purpose of combining the well-known advantages of both the "diamond" or needle "points" and round "crown." Its nature consists in making the wire from the points to the bend, or near there, of such form as to present an edge or angle on the front or under side, so that the grinding of the cards leaves the teeth with a fine triangular point, known as "diamond" or "needle points," that part of the teeth being made of a V form, so that it shall present the desired edge in the right position, and retaining the round form as best adapted for the other part of the tooth.

In the drawing, Figure 1 shows a tooth embodying our invention, and Fig. 2 a section of the same at the line *x y*.

A is the "crown," made of round wire, in the common form, the round part extending to the bends *b b'*, and from there to the points or ends

the wire is reduced to an edge on the side *c c'* of each, a section of one being shown in Fig. 2. This form may be given to portions of the wire, as it is fed into the "setting-machine," by stamping or pressing it between two inclined surfaces, with the side *d* supported; or portions of the wire may be cut away, leaving the desired edge, either of which may be done by slight addition to the common card-setting machine.

We are aware that teeth for cards have been made of a V-shaped wire, presenting an edge in front their whole length, and of the same form throughout. These we do not claim.

Having described our invention, what we claim therein as new, and desire to secure by Letters Patent, is—

A carding-machine tooth having its points compressed from the ends back to or about to the bend *b b'*, so as to present an edge in front, and its body or crown cylindrical, substantially as and for the purpose set forth.

CHARLES HINDLE.

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Witnesses:

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