

(No Model.)

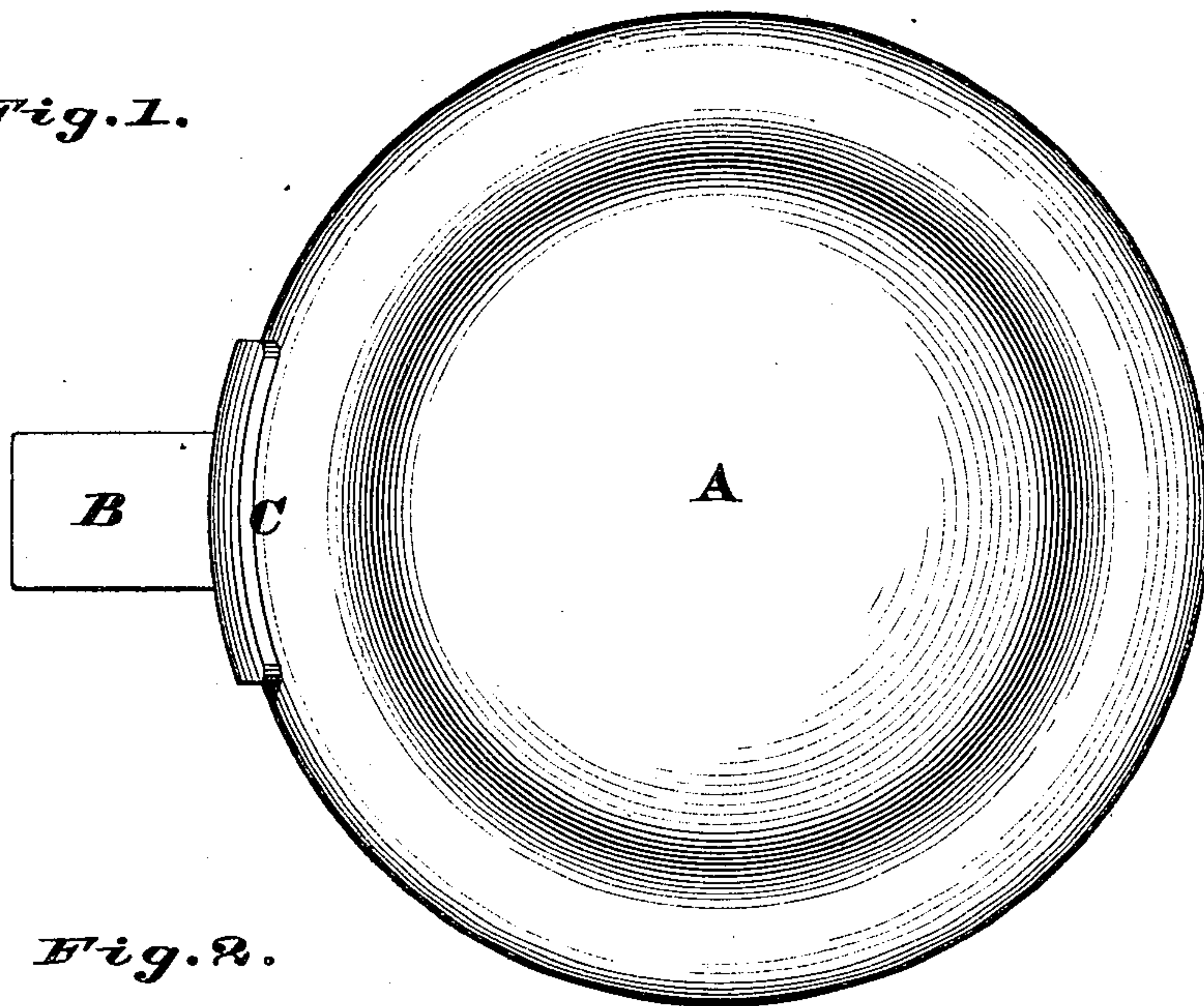
G. LIGOWSKY.

FLYING TARGET.

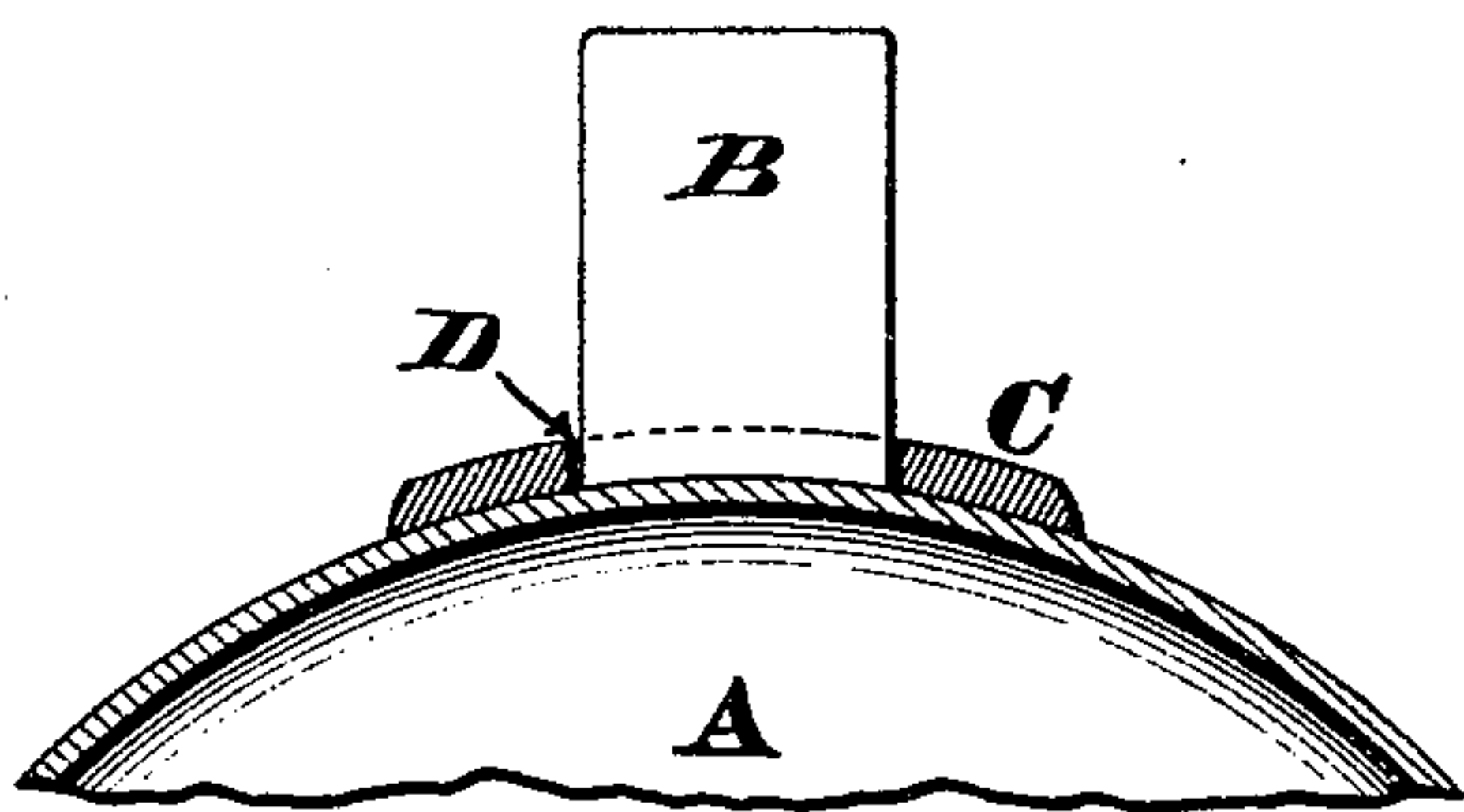
No. 246,401.

Patented Aug. 30, 1881.

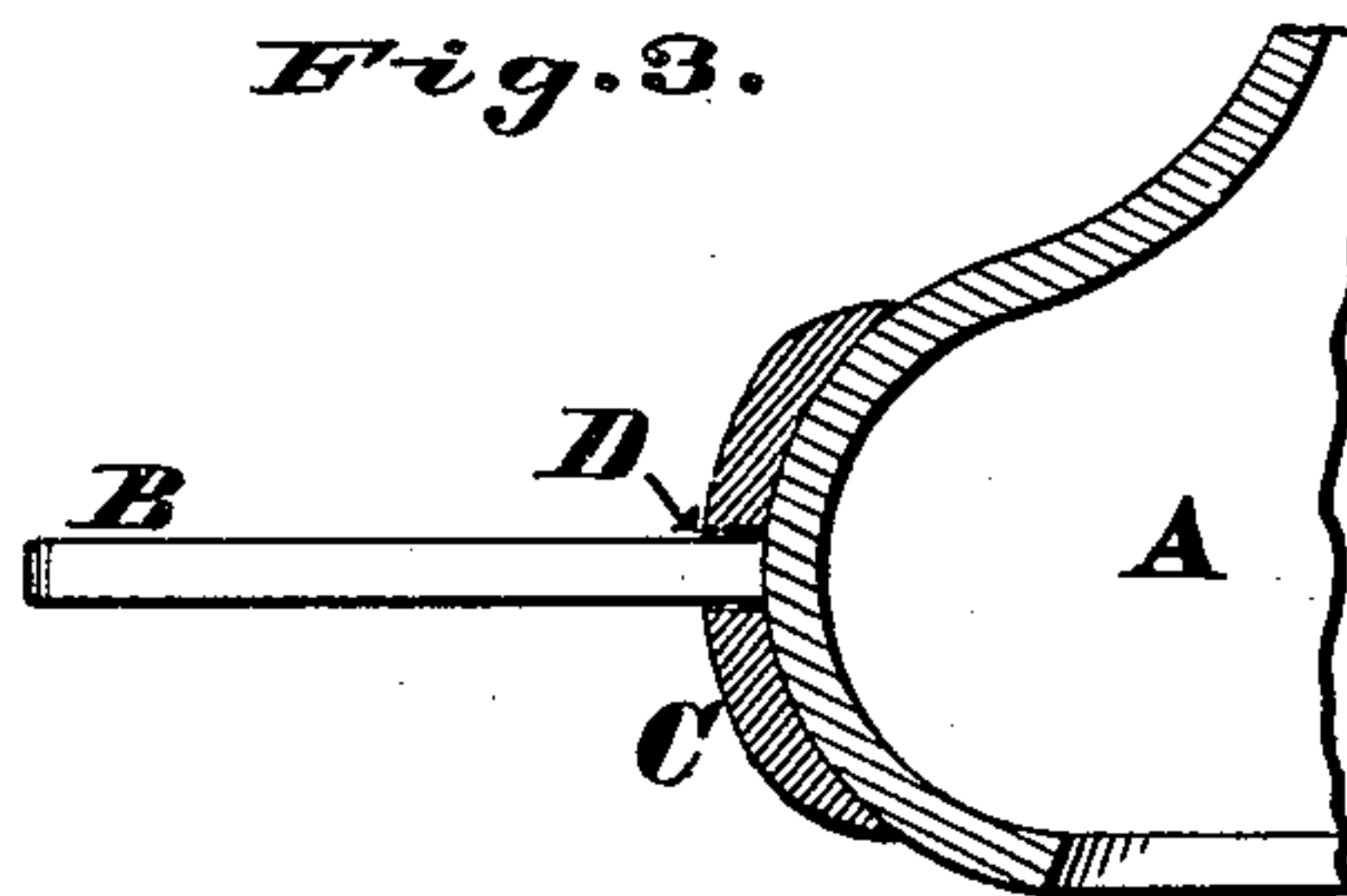
*Fig. 1.*



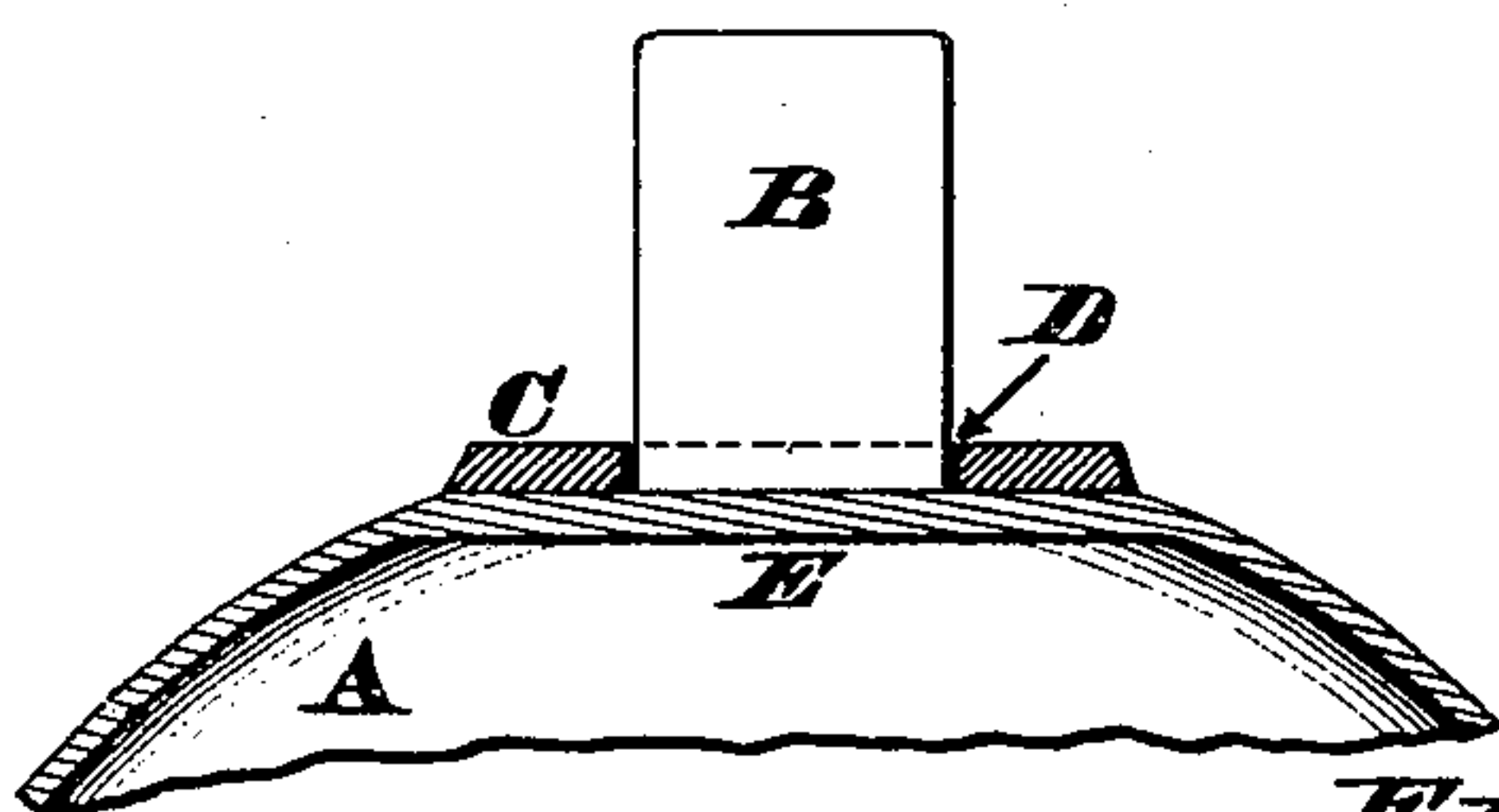
*Fig. 2.*



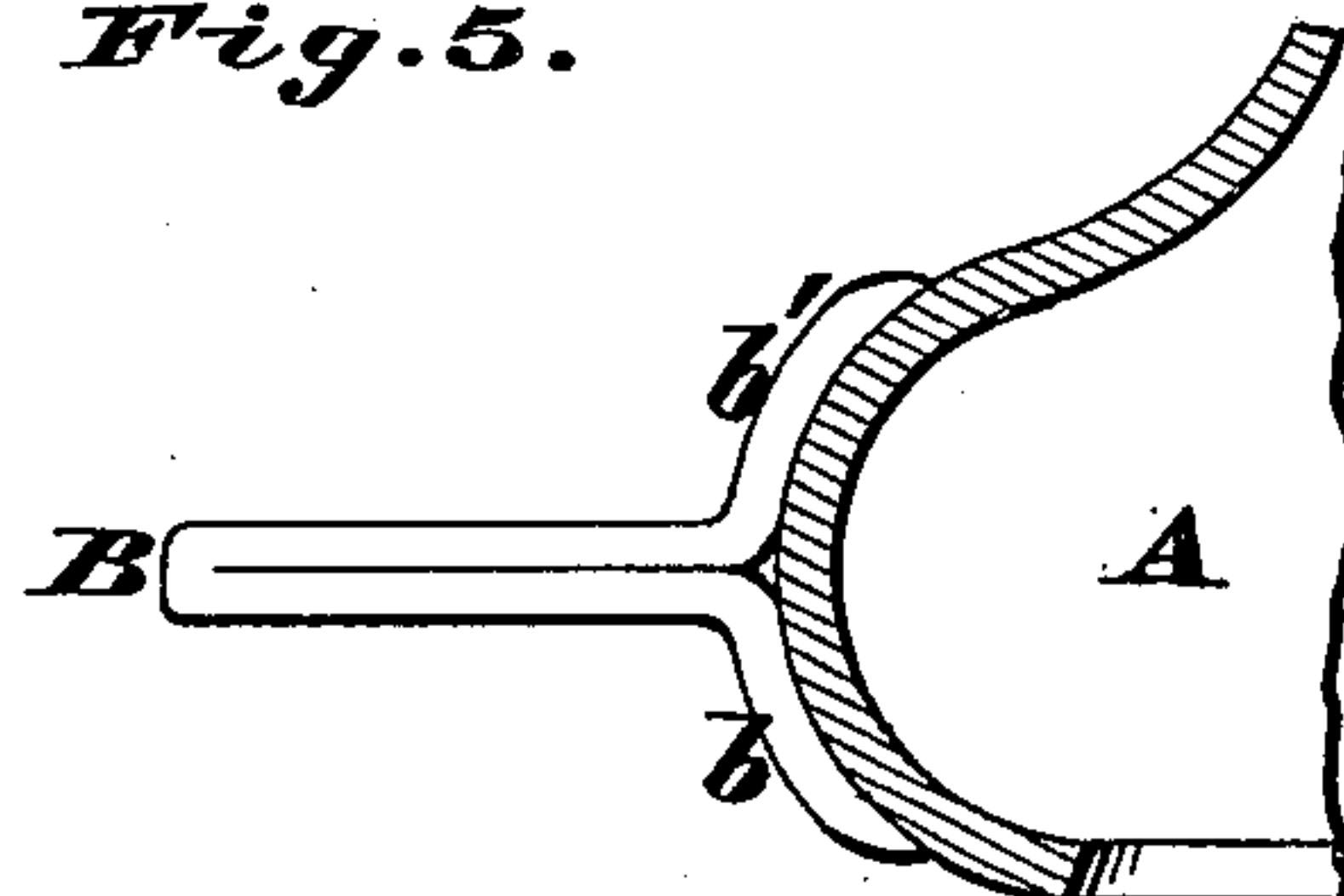
*Fig. 3.*



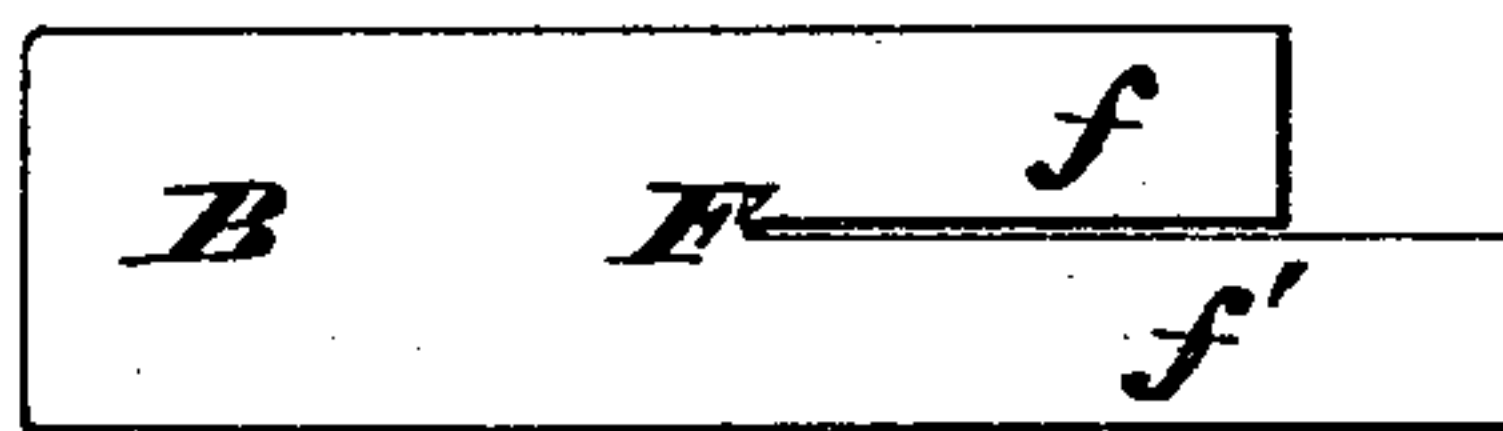
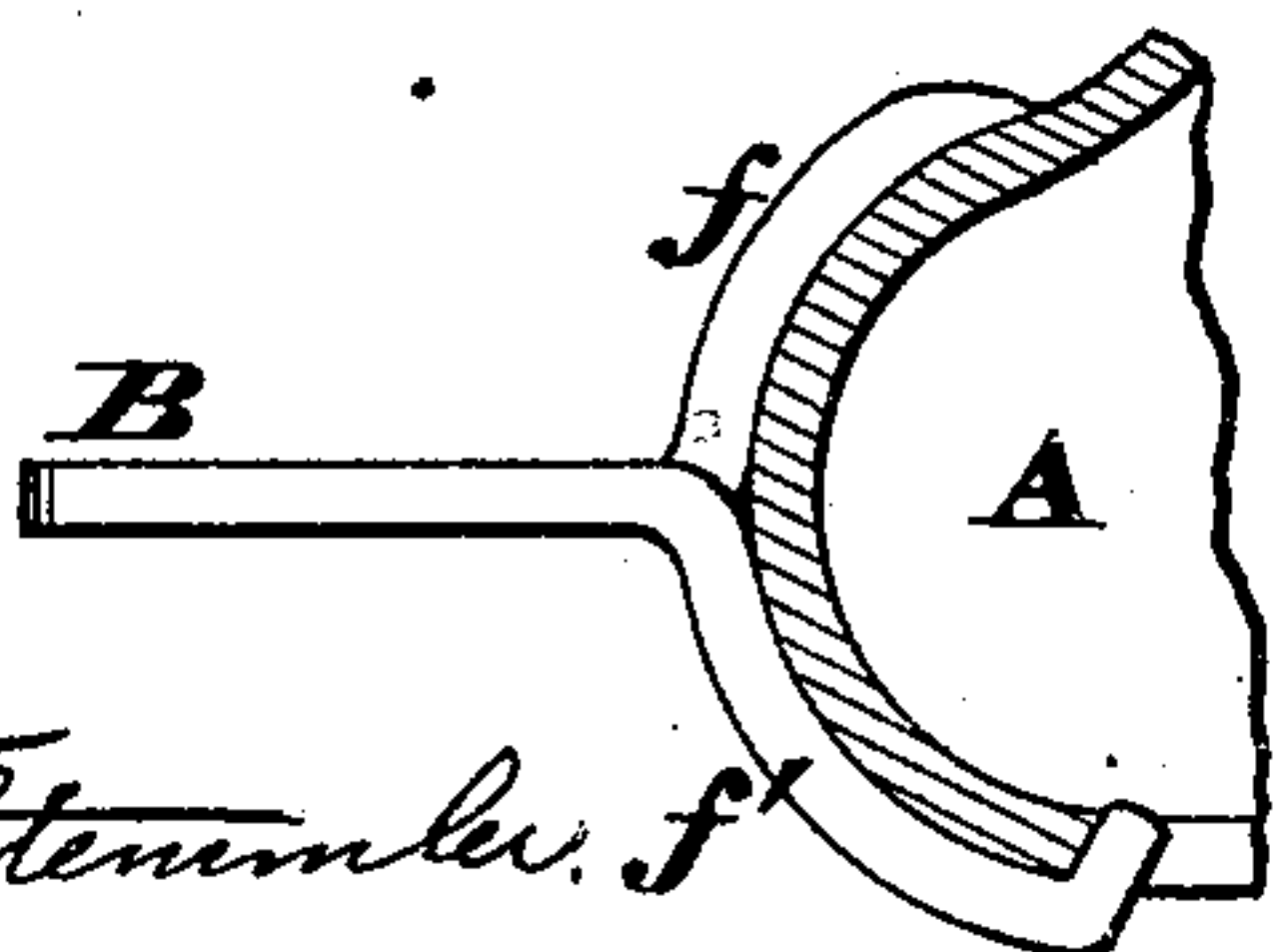
*Fig. 4.*



*Fig. 5.*



*Fig. 6.*



Attest

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# UNITED STATES PATENT OFFICE.

GEORGE LIGOWSKY, OF CINCINNATI, OHIO.

## FLYING TARGET.

SPECIFICATION forming part of Letters Patent No. 246,401, dated August 30, 1881.

Application filed June 14, 1881. (No model.)

*To all whom it may concern:*

Be it known that I, GEORGE LIGOWSKY, of Cincinnati, Hamilton county, Ohio, have invented certain new and useful Improvements in Flying Targets, of which the following is a specification.

This is an improvement on the form of flying target seen in Letters Patent No. 231,919, granted to me September 7, 1880; and the present invention comprises a novel method of attaching the tongue. In said patent the tongue is represented as passed through a slot in the target and then glued to the interior of the latter; but practical experience has shown that the slot is a difficult thing to mold and has a tendency to weaken the target. Furthermore, it is a tedious and expensive proceeding to glue the tongue in position. Therefore to overcome these annoyances I pass one end of the tongue through a slotted washer, and then glue or cement this united tongue and washer directly to the exterior of the target-rim, as hereinafter more fully described, and pointed out in the claim.

In the annexed drawings, Figure 1 is a plan of the preferred construction of target-tongue. Fig. 2 is a horizontal section of the same. Fig. 3 is an enlarged vertical section through the tongue and washer. Figs. 4 and 5 are, respectively, horizontal and vertical sections of two different modifications of my invention. Fig. 6 is a vertical section and plan of a different form of tongue.

The target A is essentially the same as seen in my patent previously alluded to, with exception that the present device is cast without any slot or groove or other special appliance for attachment of the tongue B. The tongue is made of a thin strip of wood, or paste-board, or leather, or any material or composition of material capable of being readily and securely united to the target with ordinary glue or any equivalent size or cement.

C represents a washer or stiffener composed of the same material as the tongue, or of any

other moderately-flexible material, and having a longitudinal slot, D, to receive one end of the said tongue. This washer is readily bent to accommodate itself to the curvature of the target A, and the tongue is then glued and inserted in the slot D, after which act the now united tongue and washer are again glued and secured to said target in the manner shown. When thus secured it is evident the tongue is glued both to the target and washer, and cannot be detached except by exerting a force sufficient to destroy said target.

If desired, the tongue and washer and that portion of the target adjacent thereto may be coated either with paraffine or shellac varnish or other water repellant that will prevent the glue or cement being weakened by absorbing moisture. In Fig. 4 the tongue and washer are glued to a flattened portion, E, of the target, which portion may be made comparatively thick, as shown. In Fig. 5 the tongue is doubled in the middle, and then cemented at its two ends, *b b'*, to the target. In Fig. 6 the tongue is divided longitudinally at F, thereby producing two shanks, *f f'*, of unequal length, of which shanks the shorter one, *f*, is bent up and glued to the top of the target-rim, while the other or longer shank, *f'*, is carried down and bent around the edge of said rim, as shown. Finally, the tongue and its accompanying stiffener or washer may be composed of one pair, of papier-maché or its equivalent material, either molded or cast or otherwise made of the proper shape.

I claim as my invention—

The tongue B, glued or cemented to the exterior of a flying target, and strengthened by a washer or its equivalent device, as herein described.

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

GEORGE LIGOWSKY.

Witnesses:

JAMES H. LAYMAN,  
SAML. S. CARPENTER.