

F. A. WOOD.  
Steam-Whistle.

No. 213,272.

Patented Mar. 11, 1879.

FIG 1

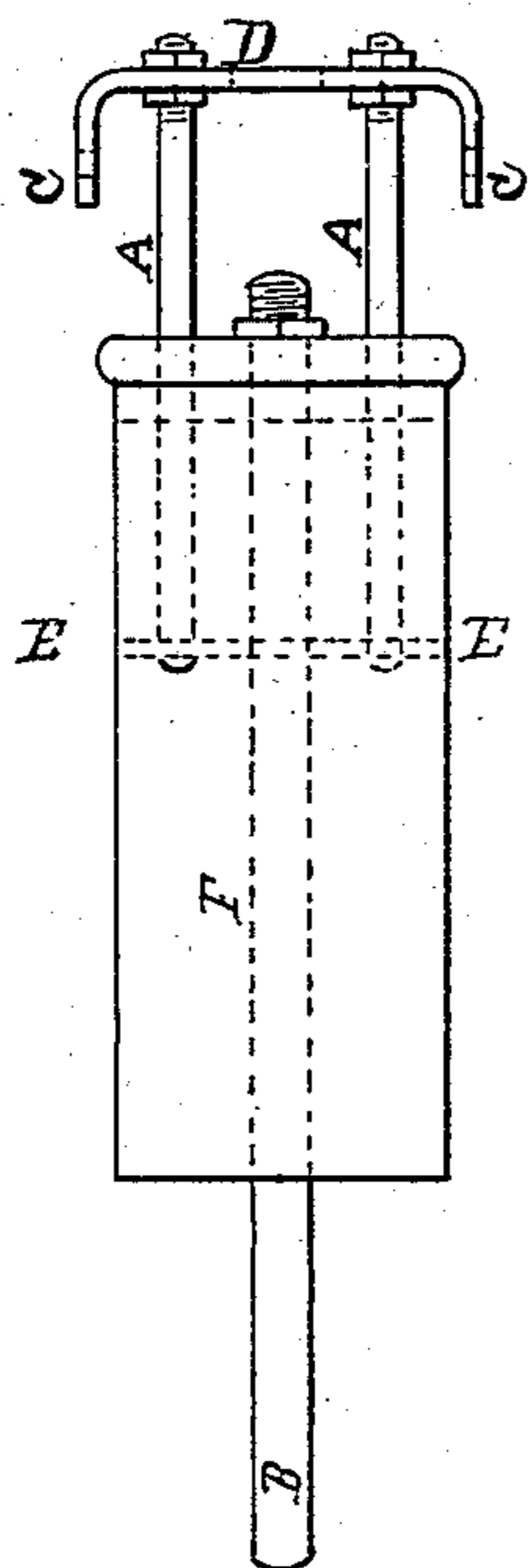


FIG 2

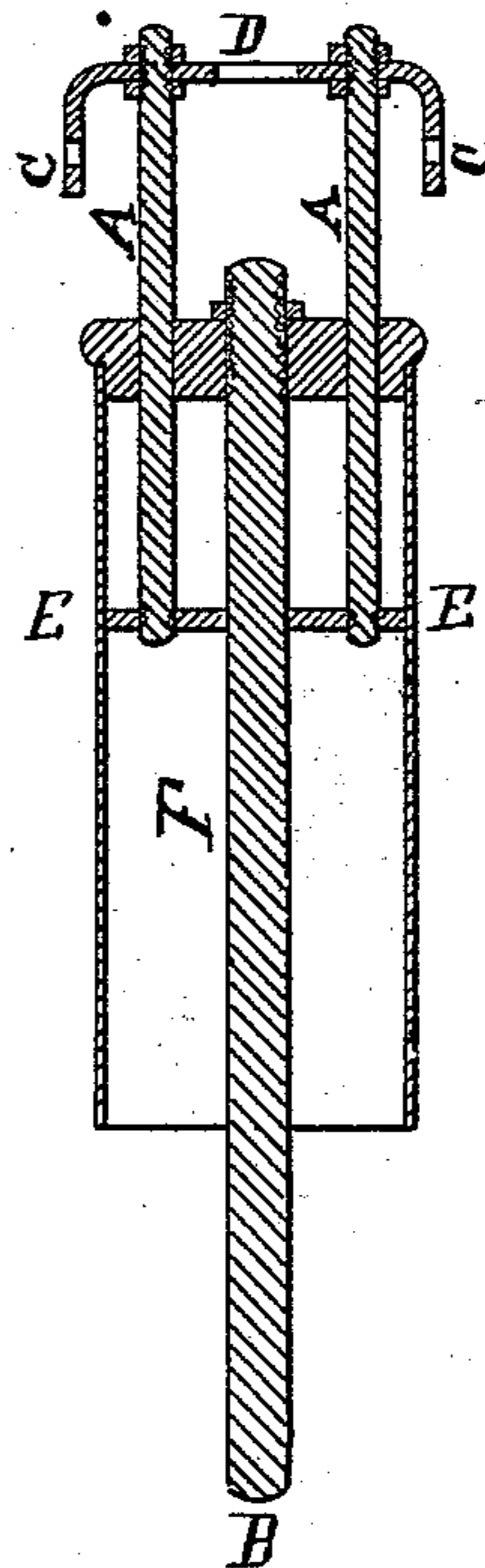
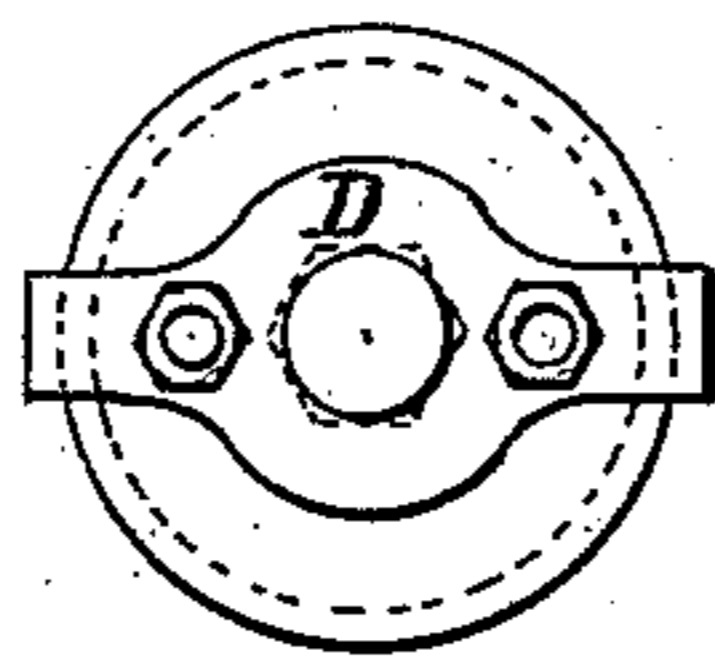


FIG 3



Witnesses

Wm. C. Culver.  
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Inventor

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per Henry O. Belter  
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# UNITED STATES PATENT OFFICE.

FREDERICK A. WOOD, OF JERSEY CITY, NEW JERSEY.

## IMPROVEMENT IN STEAM-WHISTLES.

Specification forming part of Letters Patent No. **213,272**, dated March 11, 1879; application filed September 5, 1878.

*To all whom it may concern:*

Be it known that I, FREDERICK A. WOOD, of Jersey City, in the county of Hudson and State of New Jersey, have invented a new and useful Improvement in Steam-Whistles, of which the following is a specification:

Heretofore steam-whistles have consisted of a base containing a valve, which, on being opened, permitted the steam to escape into a bell, (or "bowl," as sometimes called,) and the sound produced depended upon the length of the bell, and was always uniform under a given pressure of steam.

The object of my invention is to produce a variety of distinct and different sounds with the same whistle, at the pleasure of the operator.

The invention consists of a movable piston in the bell of the whistle.

In the accompanying drawings, in which similar letters of reference indicate like parts, Figure 1 is a side view of a device embodying my invention. Fig. 2 is a vertical longitudinal section of the same, and Fig. 3 is a plan view.

F is the bell of the whistle. B is the rod or shaft by which the bell is attached to the base. E is the piston. A A are connecting-rods, that pass from the piston through the upper end of the bell and terminate in the cross-bar D. C C are the ends of the cross-bar D, to which are attached cords or lever, or other convenient attachment, by which the operator raises or lowers the piston E.

The operation consists in simply moving the piston up and down, and thereby producing a variety of sounds.

By attaching a scale and indicator the same sound may be reproduced at the will of the operator, and the whistle used to great advantage in transmitting signals.

What I claim is—

In combination with a whistle, F, the movable piston E, rods A A, and cross-bar D, all constructed and arranged substantially as shown, and for the purposes herein set forth.

F. A. WOOD.

Witnesses:

DELOS J. CULVER,  
WM. C. CULVER.