

(No Model.)

W. I. BRIGHAM.
WHISTLE.

No. 414,188.

Patented Nov. 5, 1889.

Fig: 1.

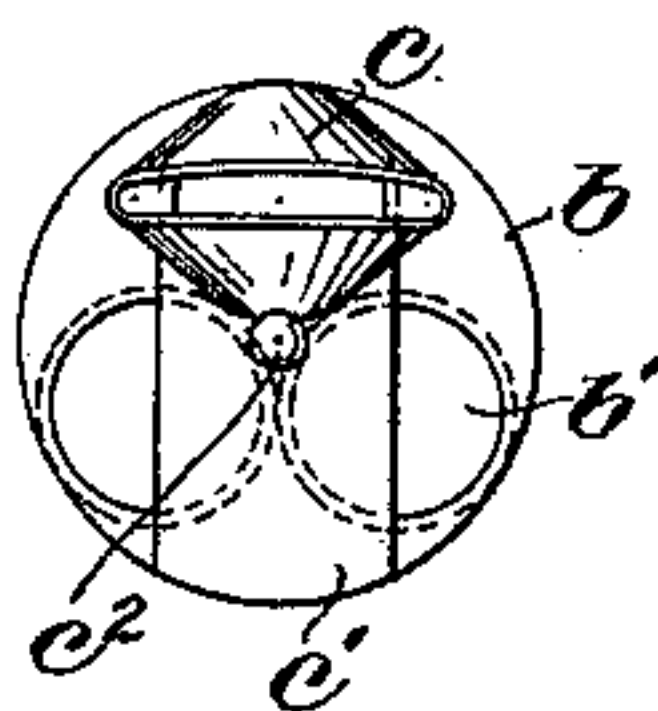
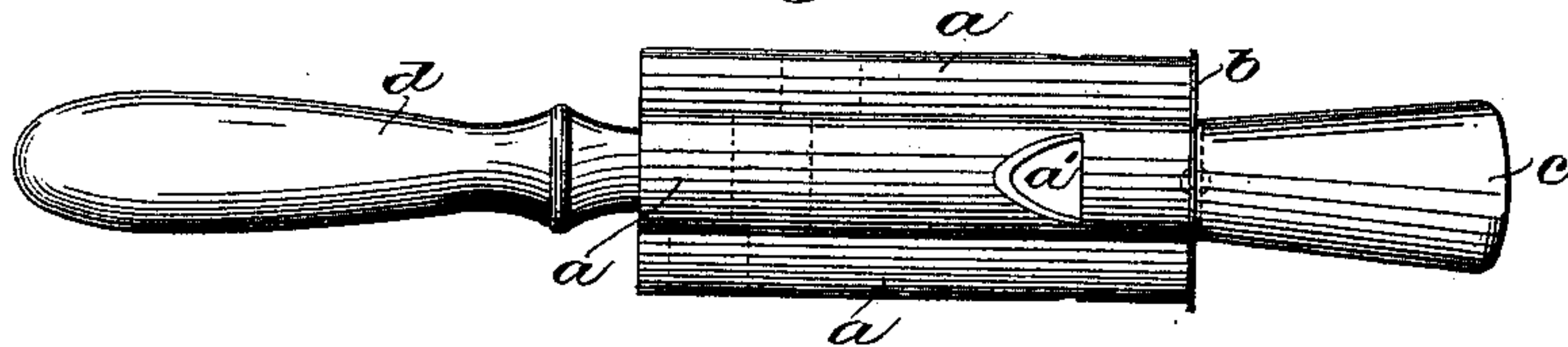


Fig: 2.



Witnesses
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UNITED STATES PATENT OFFICE.

WALTER I. BRIGHAM, OF SOUTH FRAMINGHAM, MASSACHUSETTS.

WHISTLE.

SPECIFICATION forming part of Letters Patent No. 414,188, dated November 5, 1889.

Application filed March 2, 1889. Serial No. 301,766. (No model.)

To all whom it may concern:

Be it known that I, WALTER I. BRIGHAM, of South Framingham, county of Middlesex, State of Massachusetts, have invented an Improvement in Whistles, of which the following description, in connection with the accompanying drawings, is a specification, like letters on the drawings representing like parts.

10 This invention has for its object to construct a whistle adapted to give two or more tones, preferably of a different pitch.

In carrying out my invention I employ a plurality of sounding-tubes grouped together to be moved in unison, and a single mouth-piece, the mouth-piece being loosely connected with the tubes permitting movement one with relation to the other. The sounding-tubes are provided with a suitable hand-piece, 20 by which they may be rotated or moved to present one or another in line with the mouth-piece, held stationary in the mouth.

Figure 1 shows an end view of a whistle embodying this invention, and Fig. 2 a side view of the whistle shown in Fig. 1.

A plurality of tubes, as *a*, three being herein shown, are soldered or otherwise secured together in a group, each tube having an opening at the side, as at *a'*, and containing 30 within it suitable wooden or other plugs of suitable shape to co-operate with the holes *a'* to produce a sound, and also containing within it other plugs of wood or other suitable material, as indicated in dotted lines, to vary the pitch of the tone, all in suitable manner. 35 The tubes *a* have secured to them at one end a plate *b*, having holes through it arranged in alignment with the tubes, there being three holes, as *b'*, herein shown, one for each tube. The mouth-piece is herein shown as a flaring tube *c*, having at its lower end a projection *c'*, through which passes a pin *c''*, which enters or passes through the plate *b*, and serves as a swivel, connecting the mouth-piece and plate. A hand-piece *d* is fixed to 45 the plurality or group of tubes, by which they may be moved in unison.

In operation the mouth-piece *c* is held stationary in the mouth, and by the hand-piece 50 *d* one or another tube *a* is brought into alignment with the mouth-piece *c*, so that by blow-

ing into the said mouth-piece the tone of the particular sounding-tube then in alignment is produced. While the mouth-piece is thus held, by turning, rotating, or reciprocating the hand-piece *d*, different tones, according to the pitch of the different sounding-tubes, will be produced in succession.

I do not desire to limit my invention to the particular number of sounding-tubes employed, nor to the use of pitch-plugs to vary the pitch, nor to any particular construction by which the tubes may be moved in unison, as many changes may obviously suggest themselves to a skilled mechanic which come 65 within the scope of my invention.

I claim—

1. A whistle comprising a plurality of sounding-tubes grouped together, and a plate *b*, secured thereto at one end, and having 70 openings therein in alignment with said tubes, combined with a single mouth-piece having the projection *c'*, and a pin passed through said projection and plate, whereby the mouth-piece is swiveled contiguously to the group of 75 sounding-tubes, substantially as described.

2. A whistle comprising a plurality of sounding-tubes grouped together and differently pitched, and a plate having openings therein in alignment with said tubes secured 80 to one end thereof, combined with a single movable mouth-piece swiveled to said plate, its inner end being adjacent to said plate and adapted to be brought opposite any one of said openings therein, substantially as described. 85

3. A whistle comprising a plurality of sounding-tubes rigidly grouped together, and a hand-piece by which they may be moved in unison, combined with a mouth-piece loosely 90 connected to the common longitudinal axis of the said sounding-tubes, and adapted to form a continuous passage with any one of said tubes, substantially as described.

In testimony whereof I have signed my name 95 to this specification in the presence of two subscribing witnesses.

WALTER I. BRIGHAM.

Witnesses:

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