

C. G. CONN.
 BRASS WIND MUSICAL INSTRUMENT.
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931,273.

Patented Aug. 17, 1909.

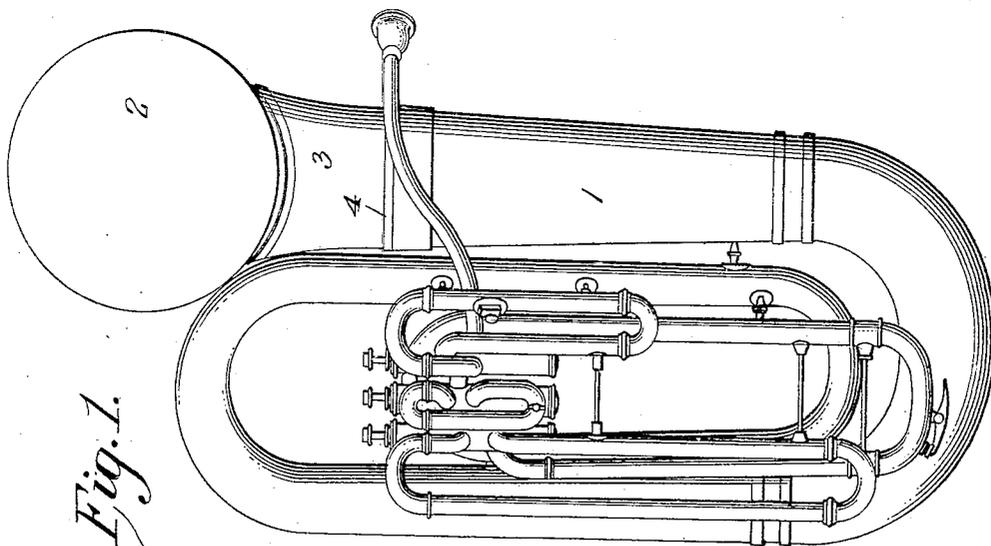
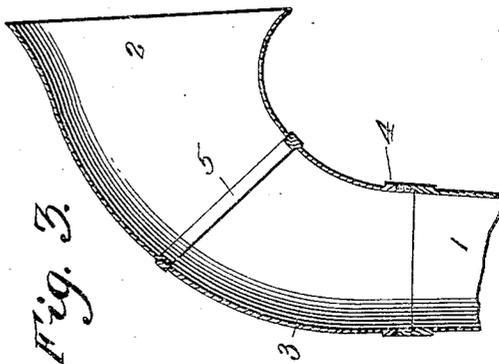
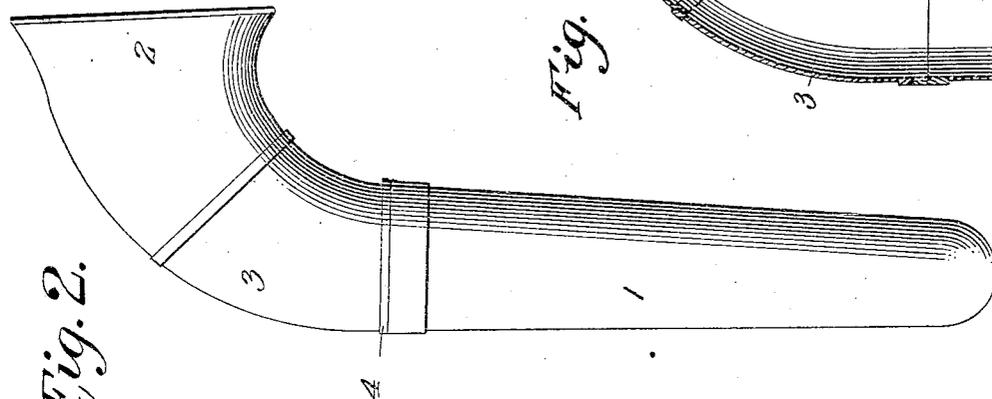
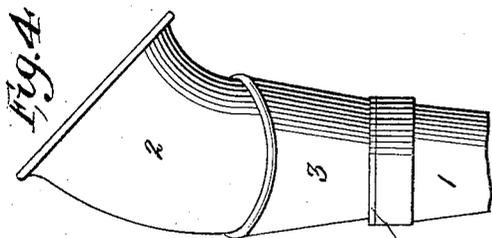


Fig. 1.

Witnesses
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UNITED STATES PATENT OFFICE.

CHARLES G. CONN, OF ELKHART, INDIANA.

BRASS WIND MUSICAL INSTRUMENT.

No. 931,273.

Specification of Letters Patent.

Patented Aug. 17, 1909.

Application filed February 13, 1908. Serial No. 415,712.

To all whom it may concern:

Be it known that I, CHARLES G. CONN, a citizen of the United States, residing at Elkhart, in the county of Elkhart and State of Indiana, have invented certain new and useful Improvements in Brass Wind Musical Instruments, of which the following is a specification.

As is well known to those skilled in the art, the bells of a number of brass wind musical instruments, especially such instruments as altos, tenors, baritones, euphoniums, and basses point upward, so that when a band is seated on a stage, the music from the horns is directed into the wings or to the roof.

The object of my invention is to construct the bells of brass wind musical instruments with curved axes and by attaching these curved bells to the bell-tubes of the instruments by means of curved sleeves, to provide a bell-front instrument having a much larger field of adjustment than heretofore.

In the drawing, Figure 1 is a front elevation of a brass wind musical instrument, embodying my invention; Fig. 2 is a side elevation of the same; Fig. 3 is a detail sectional view. Fig. 4 is a front elevation of the bell tube, with the bell turned to one side.

Referring more particularly to the drawing, 2 represents the bell of the instrument which is separated from the main body of the bell tube 1, by means of a curved sleeve 3. Sleeve 3 is provided with an extension 4 of the proper diameter to make a tight sliding fit with the bell tube 1. The bell 2 is provided with a tubular extension 5 constructed to have a tight sliding fit within the upper end of the sleeve 3.

The curvature of the sleeve or coupling 3 is such that when the sleeve and the bell are turned to bring their axes into the same plane, with the centers of curvature on the

same side of the axes, the outer end of the bell axis is substantially at right angles to the axis of the bell tube. The object of the curved sleeve is to couple the bell to the bell tube of the instrument in such position that when the instrument is held by the musician, the bell can be directed toward the audience from wherever the musician may be seated and the instrument will be an absolute bell front instrument, whereby the sound waves will travel toward the audience instead of toward the roof, as in the present construction of this class of horns.

The object of making the bell adjustable is that if, by force of circumstances, the band is placed in any unusual formation, the bell may be adjusted to that position so as to insure directing the sound waves directly toward the audience.

Having thus described my invention, what I claim as new therein and desire to secure by Letters Patent is:—

1. In a brass wind musical instrument, the combination with a bell-tube; of a curved bell; and a curved sleeve for detachably connecting said bell to said bell-tube, said sleeve being adapted at one end to revolve about the axis of the bell tube and provided at its other end with means permitting the bell tube to be revolved about its axis at that end.

2. In a brass wind musical instrument, the combination with a bell-tube; of a curved bell; and an angular sleeve adapted to connect said bell detachably to said bell-tube and to provide a compound adjustment between said bell and bell-tube.

The foregoing specification signed at Elkhart Indiana this 26th day of December, 1907.

CHARLES G. CONN.

In presence of two witnesses—

W. J. GRONERT,
GERTRUDE STREGO.