

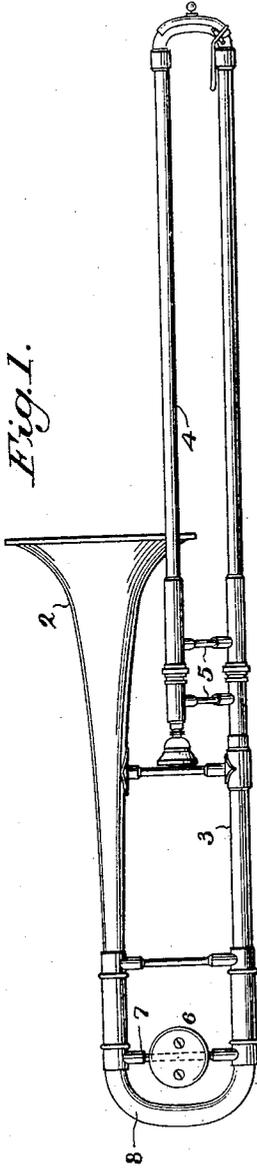
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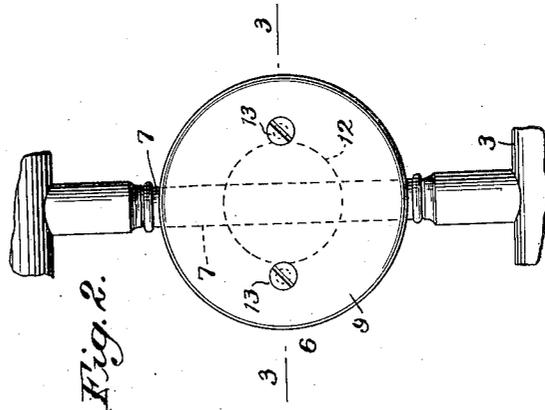
E. D. COE

TROMBONE ATTACHMENT

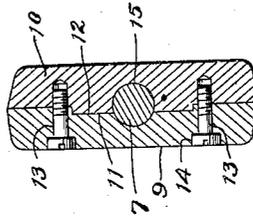
Filed Feb. 18, 1924



*Fig. 1.*



*Fig. 2.*



*Fig. 3.*

*Inventor:*  
*Edward D. Coe*  
*By Louis C. Vanderlip*  
*att'y.*

# UNITED STATES PATENT OFFICE.

EDWARD D. COE, OF KILBOURNE, WISCONSIN, ASSIGNOR TO C. G. CONN, LTD., OF ELKHART, INDIANA, A CORPORATION OF INDIANA.

## TROMBONE ATTACHMENT.

Application filed February 18, 1924. Serial No. 693,422.

My invention relates to slide trombones, and the particular object of the invention is to provide a novel and improved attachment for balancing the instrument when in use.

Another object of the invention is the provision of a device of the character described which may readily be attached to or removed from a slide trombone. Other objects of my invention are mentioned and described herein.

An embodiment of my invention is illustrated in the accompanying drawing in which Figure 1 is a side elevational view of a slide trombone carrying my invention; Fig. 2 is an enlarged fragmental view of the invention and a cross element of the trombone to which the invention is attached; and Fig. 3 is a section taken on the line 3—3 of Fig. 2.

Similar numerals of reference indicate like parts throughout the several views on the drawing.

Referring to the drawing in detail, a slide trombone of conventional design is illustrated in Figure 1 thereof, in which the numeral 2 indicates the bell section, 3 a section of the main pipe, and 4 the playing slide reciprocally mounted in the instrument and provided with one or more cross bars 5, 5 adapted to be grasped by the player, as is well known in the art.

The structure illustrated in Fig. 1 of the drawing, without my invention applied thereto, is a poorly balanced instrument, the major portion of the weight thereof being carried in the bell section 2 and slide 4 which throws a heavy strain upon the player's hand which supports the instrument.

To relieve the player's hand, usually the left, of the strain referred to, I provide a counter balance 6 adapted to be removably mounted upon the cross bar 7 which is positioned adjacent the bend section 8 of the instrument. The counter balance 6 is a flat annular element and comprises two flat annular half sections 9 and 10, respectively, the former being provided with a central annular socket 11 adapted to be engaged by the central annular boss element 12 projecting from the section 10, the two half

sections 9 and 10 being detachably secured together by a plurality of headed screws 13. The head of each screw may be seated in a recess 14 formed in counter balance section 9 to bring it flush with the surface of the latter.

The numeral 15 indicates a bore formed radially through the counter-balance, said bore being divided longitudinally thereof by the joint between the two sections 9 and 10, and is adapted to be engaged by the cylindrical bar 7 upon which it may be clamped removably by the screws 13. The complementary engagement of the socket 11 and boss 12 is very advantageous to enable ready engagement of the screws 13 with the screw holes in element 10; and also to prevent lateral deflection of either half section of the counter-balance, whereby the joint between the two sections is rendered almost, if not wholly, invisible, and whereby the two sections of the bore 15 are automatically brought into accurate registration.

I claim:—

1. The combination with a trombone, of a counterbalance therefor, said counterbalance being split in two sections and provided with a bore which is divided longitudinally thereof by the joint between the counterbalance half sections; a complementary boss and socket connection between said counterbalance sections; and means for detachably clamping a trombone element within said counterbalance bore.

2. The combination with a trombone, of a counterbalance therefor, said counterbalance being split in halves and provided with a bore which is divided longitudinally thereof by the joint between the two counterbalance sections; a complementary boss and socket connection between said counterbalance half sections; and means for clamping a trombone element within said counterbalance bore, said means serving also to detachably fasten the two counterbalance sections together.

In witness whereof I have hereunto affixed my signature this 15th day of February, 1924, at Elkhart, Indiana.

EDWARD D. COE.