

C. F. A. STURTS.
SOUND BOX AND TONE ARM CONNECTOR.
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1,291,239.

Patented Jan. 14, 1919.

Fig. 1.

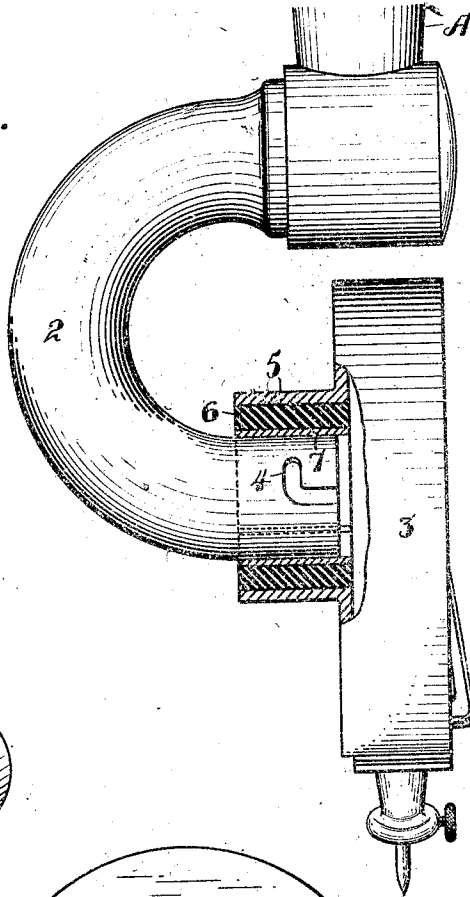


Fig. 2.

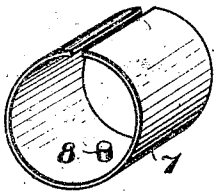
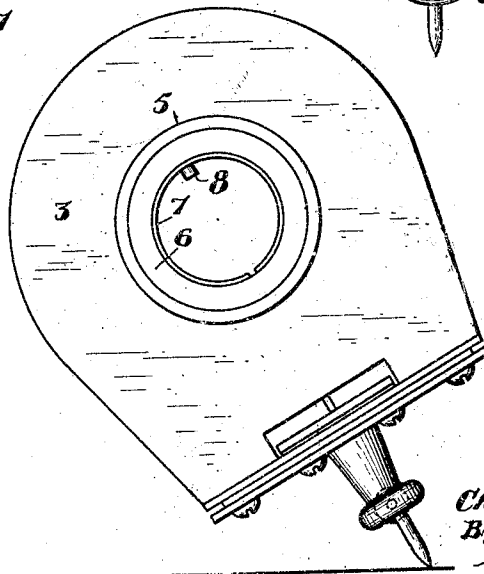


Fig. 3.



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SOUND-BOX AND TONE-ARM CONNECTOR.

1,291,239.

Specification of Letters Patent.

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Application filed March 5, 1918. Serial No. 220,445.

To all whom it may concern:

Be it known that I, CHARLES F. A. STURTS, a citizen of the United States, residing at the city and county of San Francisco and State of California, have invented new and useful Improvements in Sound-Box and Tone-Arm Connectors, of which the following is a specification.

This invention relates to a sound box and tone arm connector for talking machines.

One of the objects of the present invention is to provide a cooperating interlocking connection for securing sound boxes, which are used in connection with talking machines, to the tone arm or swinging neck thereof in such a manner that the sound box may be quickly and securely locked on the neck and as readily removed.

Another object of the invention is to provide a connection which preserves the vibrations peculiar to articulate speech and musical sounds and to a large extent excludes metallic and discordant sounds produced by metallic connections, this being produced in the present instance by interposing a rubber gasket and a split ring between the sound box and the tone arm which serve as an insulator and also permit tightening of the joint when the connection is made.

Further objects will hereinafter appear.

The invention consists of the parts and the construction and combination of parts as hereinafter more fully described and claimed, having reference to the accompanying drawings, in which—

Figure 1 is a plan view, partly broken away and partly in section, showing the connection formed between the tone arm and the sound box.

Fig. 2 is a perspective view of the split ring.

Fig. 3 is a side elevation, showing the rear side of the tone box and the connection between the tone arm and the sound box.

Referring to the drawings in detail, A indicates the tone arm of a talking machine, 2 the swinging arm or neck thereof, and 3 the sound box. Formed on the free end of the neck is a bayonet slot 4, and formed on the rear side of the sound box is an annular

projection or collar 5 which is provided for the reception of a rubber gasket 6 and a split ring 7. This ring may be constructed of metal or any other suitable material and is otherwise provided with an inwardly projecting pin 8 which is received by the bayonet slot 4 when connection is made, such as shown in Fig. 1. The rubber gasket interposed between the split ring and the tone box proper prevents metallic contact or connection between the sound box and the neck of the tone arm, thus to a large extent excluding discordant and metallic sounds usually produced where a direct metallic contact is made.

The split ring provided is seated interiorly of the rubber gasket and expands slightly when the neck of the tone arm is inserted, thus forming a tight joint and also eliminating wear of the gasket which would take place if the tone arm was inserted directly in the gasket. The connection shown permits the sound box to be quickly applied and locked in position, due to the provision of the pin 8 and the bayonet slot 4, and it also permits the sound box to be quickly removed, when desired. Its main function, however, is to prevent metallic contact between the sound box and the tone arm, thus preventing to a large extent the transmission or production of metallic and other discordant sounds.

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

A sound box and tone arm connector composed of a collar on the sound box, a rubber gasket seated within the collar, an expandible ring seated within the gasket, said ring being formed to receive the tone arm so as to be expanded by the latter and in turn to expand the gasket against the collar, and means to secure the ring in position.

In testimony whereof I have hereunto set my hand in the presence of two subscribing witnesses.

CHARLES F. A. STURTS.

Witnesses:

JOHN H. HERRING,

W. W. HEALEY.