May 11 , 1926. 1,584,485

C. STILLE

CABINET TALKING MACHINE

Filed Dec. 4, 1922

Fig. 1.

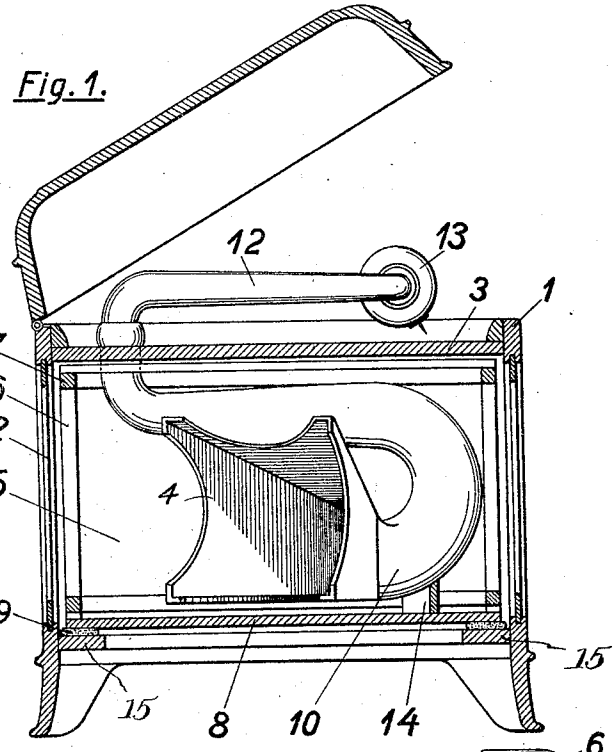
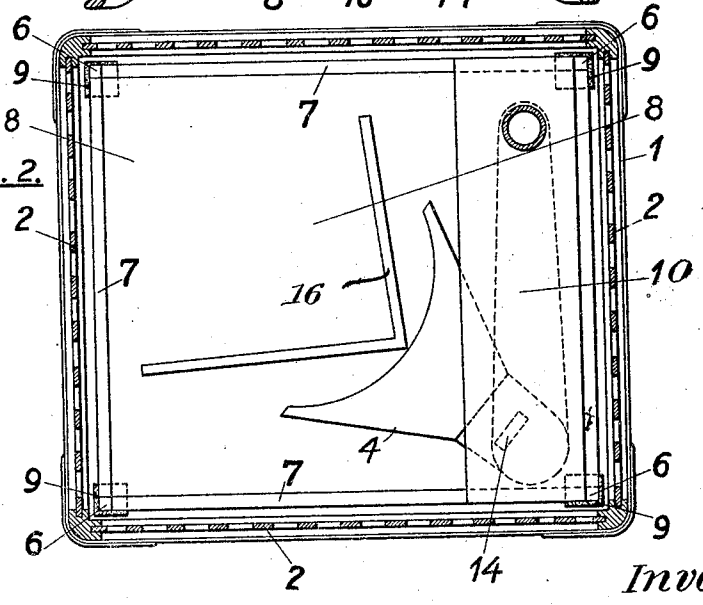


Fig. 2.



Inventor

Carl Stille

Patented May 11, 1926. 1,584,485

UNITED STATES PATENT OFFICE.

CURT STILLE, OF BERLIN-ZEHLENDORF, GERMANY, ASSIGNOR TO TELEGRAPHIE-GESELLSCHAFT MIT BESCHRÄNKTER HAFTUNG SYSTEM STILLE, OF BERLIN, GERMANY.

CABINET TALKING MACHINE.

Application filed December 4, 1922. Serial No. 604,369.

This invention relates to a cabinet talking machine of the kind in which the horn is supported by means of a separate frame inside the cabinet, and the invention consists in the combination with a bottomless cabinet having perforated side walls, of a frame which is insulated from said cabinet and fitted with a sound-board which is arranged so as to cover the bottom opening of the cabinet, the horn, and a sound-reflector placed in front of the same, being supported on the sound-board so that the latter will be affected, not only by the vibrations of the horn and of the reflector but also by the sound-waves emanating from the mouth of the horn. As the sound-board is insulated from the cabinet and therefore is perfectly free to participate in the vibrations, a considerable sound amplification will be obtained.

It should be noted that it is not new per se to insulate a horn or resonator from the enclosing cabinet.

Fig. 1 of the accompanying drawings represents a vertical section of the talking machine, and

Fig. 2, a horizontal section of the same.

The cabinet 1 is provided with perforated side walls 2 and with a top plate 3 which carries, in the usual manner, the driving mechanism and the turntable, these elements being omitted from the drawings.

The cabinet is without fixed bottom, but is provided with ledges 15 which serve as supports for a sound-board 8 adapted to cover the bottom opening and take the place of the bottom. The sound-board is connected to a frame 5 of wood or the like which is composed of corner posts 6 and horizontal slats 7. The horn 4 of the machine is arranged within the frame 5 and supported on the sound-board 8, for instance by means of a foot 14. An angular sound-reflector 16 is also supported on the sound-board in front of the horn. Insulating pads 9 of felt or equivalent material are interposed between the sound-board 8 and the supporting ledges 15 so that rigid connection between the cabinet and the resonant elements is obviated. A sound-tube 10 connects the horn with the tone arm 12 which carries the usual sound-box 13.

I claim:

In a talking machine of the character described, the combination with a bottomless cabinet having perforated side walls, of ledges connected to the inside and lower part of said cabinet, a sound-board supported on said ledges, means for insulating the sound-board from the ledges and from the cabinet, a frame supported on said sound-board inside the cabinet, a horn arranged within the frame and supported on the sound-board, and a sound-reflector supported on the sound-board in front of the horn.

CURT STILLE.