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HEATED CARRYING CASE  
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*Fig. 1.*

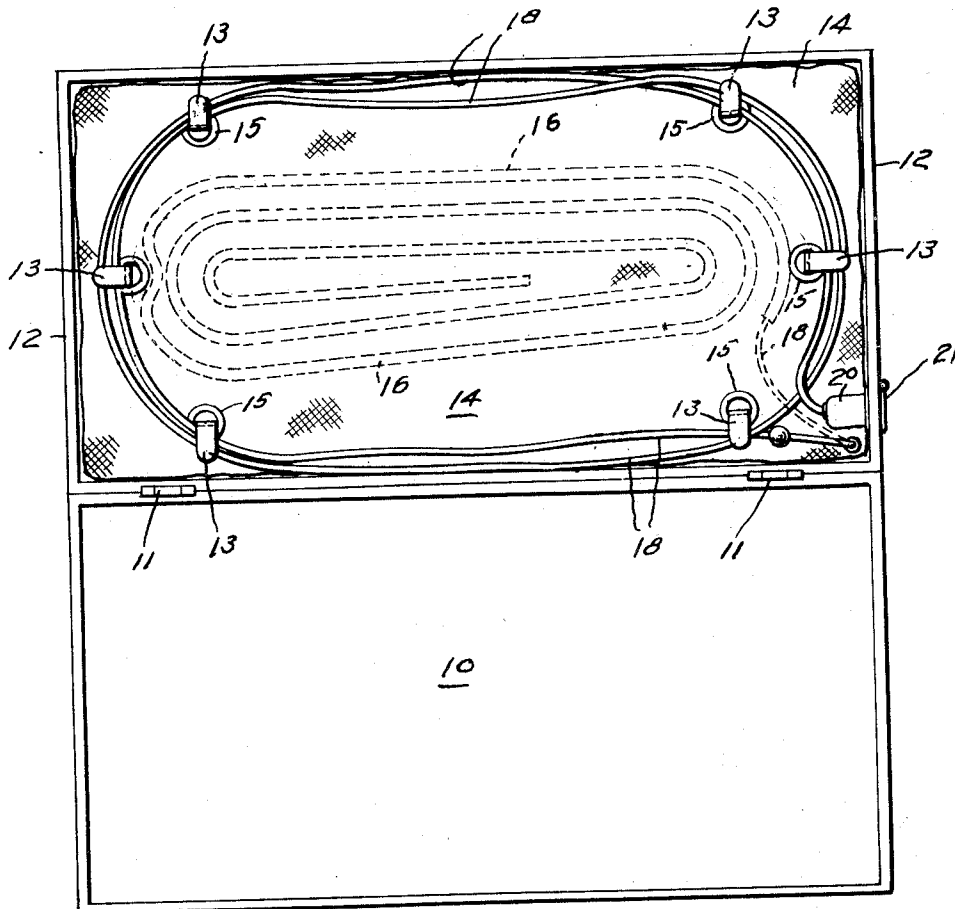
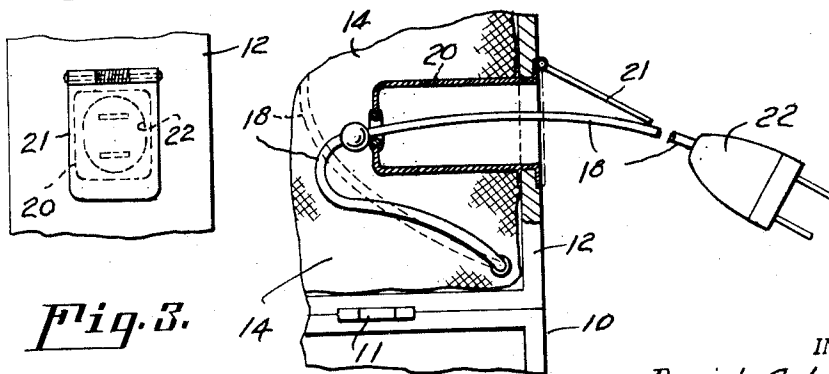


*Fig. 3.*

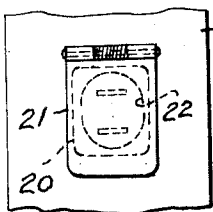


*Fig. 2.*

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## UNITED STATES PATENT OFFICE

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## HEATED CARRYING CASE

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2 Claims. (Cl. 219-19)

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My present invention relates to carrying cases and more particularly to heated carrying cases.

It is a well-known fact that certain musical instruments such as those using reeds and valves do not operate properly when cold. It is necessary for a musician to wait for his instrument to warm up to room temperature if the instrument has been subjected to cold weather as when being transported from one place to another in winter time.

Cold temperature alters the tonal pitch of these instruments and considerable time is wasted waiting for the instruments to get warm enough to operate properly.

Having these difficulties in mind I have designed a simple apparatus which speeds up the warm-up operation so that the instrument is conditioned right in the carrying case before it is taken out.

The principal object of my invention is to provide a heated carrying case for musical instruments.

Another object is to produce a heated musical instrument having therein a heating pad and an extensible electric cord which may be extended and retracted from the cover of the case.

Other objects and novel features comprising the construction and operation of my invention will be more apparent as the description of the same progresses.

In the drawings illustrating the preferred embodiment of my invention:

Fig. 1 is a plan view of the carrying case in an open position.

Fig. 2 is an enlarged fragmentary view, partially in cross-section of the lower right-hand corner of the cover portion of the case, and

Fig. 3 is an enlarged fragmentary elevation of the side of the cover adjacent the lower right-hand corner.

Referring more in detail to the drawings, 10 indicates the body portion of the carrying case. This body portion of the case may be fitted with various abutments etc., to accommodate the particular type of musical instrument to be used in the case. The over-all proportions of the case may vary. Some cases may be rectangular and others square or any other shape desired.

At 11 I have provided hinges joining the body portion 10 to a cover portion 12. The depth of the body and cover portions may vary to suit conditions.

To the inside of the top cover portion I have fixed U-shaped electric cord lugs 13. Mounted over the lugs 13 is an electric heating pad 14 having eyelets 15 adapted to engage over the lugs 13 for the purpose of holding the pad 14 in place in the cover portion 12. Within the pad 14 is located a heating coil 16 having an electric cord 18 leading out through the pad 14. This

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heating coil 16 and pad is of the conventional type. Any suitable heating pad may be used by adding the eyelets 15.

In one side of the cover portion 12, I have located an electric cord plug receptacle 20 which is provided with a spring cover 21. When the case is not in operation, the electric cord plug 22 is retracted in the receptacle 20 as indicated in Fig. 3. Fig. 1 also shows the receptacle closed 10 the plug 22 being inside but not shown. When the case is not in operation, as when in the act of transporting a musical instrument from place to place, the cord 18 is mounted on the lugs 13 as shown in Fig. 1. When it is desired to place the case in operation to heat, the plug 22 is withdrawn as shown in Fig. 2 and engaged in any suitable electric outlet. The cover 21 of the case is now closed and the musical instrument is heated very quickly to the proper operating 20 temperature.

Having thus described my invention, what I claim as new is:

1. An improved carrying case comprising in combination, a case having a body and cover portion, a heating pad located in one of said case portions, lugs attached to one of said case portions, said pad being mounted on said lugs, an electric plug receiving receptacle located in one of said case portions and communicating with the exterior of said case, an electric cord connected with said plug and said pad, the said cord being mounted on said lugs when said cord is retracted within said case.

2. An improved carrying case as set forth in claim 1 in which said pad is held in place in said case by means of eyelets located through said pad and engaged over said lugs.

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