This invention relates in general to discharging devices and in particular to a safety mechanism for preventing accidental electrical shock.

It is an object of this invention to provide a safety device for removing the charge on condensers when a chassis is removed from its mounting.

Further objects, features and advantages of the invention will become apparent from the following description and claims when considered in view of the drawings, in which:

Figure 1 is a side view of the discharge device of this invention.

Figure 2 is a top view of the apparatus of this invention.

Figure 3 is a sectional view taken on line 3—3 of Figure 2, and

Figure 4 is a schematic illustrating the shorting device in a particular discharge circuit.

However, when the chassis is raised relative to the supporting plate 10, the plate 19 is allowed to engage the contacts 22 and the condensers C1, C2 and C3 are effective.

When the plunger 20 is pushed upwardly the plate 19 is out of engagement with the contacts 22 and the condensers C1, C2 and C3 are effective.

However, when the contacts 22 and the condensers C1, C2 and C3 are effective.

It is seen that this invention provides a safety device for protecting personnel.

Although the invention has been described with respect to a particular embodiment thereof, it is not to be so limited, as changes and modifications may be made therein which are within the full intended scope of the invention, as defined by the appended claims.

We claim:

1. A switch comprising, a chassis, a plurality of insulating stand-offs connected to said chassis, a first transverse plate attached to said stand-offs intermediate their ends, a pin attached to said first transverse plate, an actuating plunger receivable on said pin, a second plate of conducting material attached to said plunger, a third transverse plate of insulating material attached to the ends of said stand-offs, a plurality of contacts mounted in said insulating plate, said second plate supported between said first and third plates and engageable with said contacts, a spring mounted between said first and second plates to bias the plunger downwardly, an arm attached to said chassis, and the end of said plunger extending below said arm so as to disconnect the switch when the chassis is resting on a flat surface and to connect it when the chassis is lifted above the flat surface.

2. A safety switch for discharging condensers in a radio chassis comprising, a plurality of insulating stand-offs attached to said chassis and extending downwardly therefrom, a first transverse plate mounted between said stand-offs intermediate their ends, a pin attached to said first transverse plate, an actuating plunger receivable on said pin, a second transverse conducting plate attached to said plunger, a third insulated plate connected to the ends of said stand-offs, a plurality of contacts mounted in said insulated plate and engageable with said second transverse plate, a spring means between the first and second transverse plates to bias the plunger downwardly, a downwardly extending arm attached to said chassis and of a length so that when the chassis is resting on a flat surface the second plate is moved out of engagement with the contacts and when the chassis is lifted from the flat surface the second plate is allowed to move downwardly into engagement with the contacts.

References Cited in the file of this patent

UNITED STATES PATENTS