Aug. 7, 1928. 1,679,461

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ANTISLIPPING DEVICE FOR STANDS AND THE LIKE

Filed May 17, 1927

Fig. 1

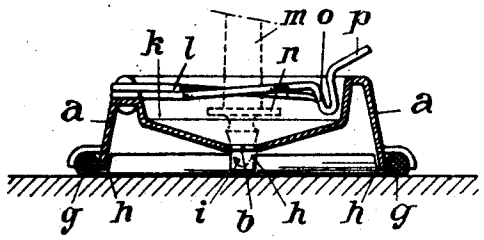


Fig. 2

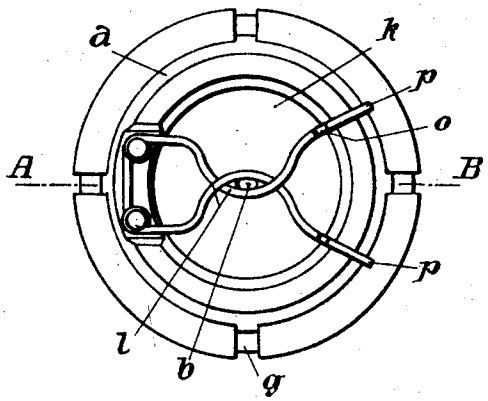
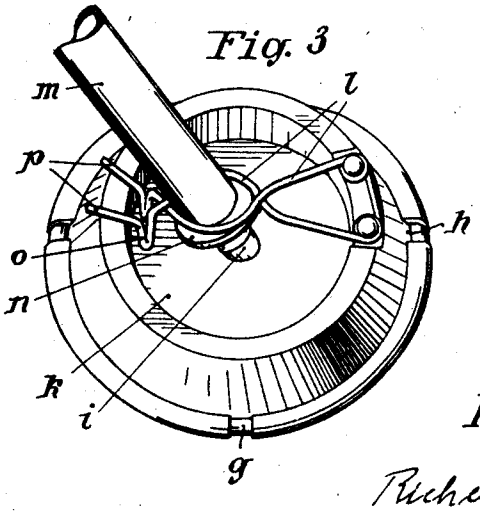


Fig. 3



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ANTISLIPPING DEVICE FOR STANDS AND THE LIKE.

Application filed May 17, 1927, Serial No. 191,972, and in Germany April 25, 1927.

This invention relates to a device designed to prevent slipping of stands, for instance for photographic-apparatus, surveying instruments and the like, and which may be used also for musical instruments. It has become known to provide for each leg of a stand a removable cup-shaped shoe, comprising a rough lower surface, said shoe gripping over the point of the leg and preventing slipping of the leg. The anti-slipping-devices which are commonly used comprise a ball-joint carrier for the shoe and designed to be screwed into the leg of the stand so that not only the cost of manufacturing of the stand is increased but the other inconvenience caused that time is required for putting on and removing the antislipping shoe and the points of the legs of the stand. Ball-joint-carriers which are not collapsible require much space so that they are difficult to transport. The adjusting of the legs of the stand in an inclined position is limited owing to the ball-joints.

This invention relates to an anti-slipping device for the legs of stands, which avoids the above stated inconveniences.

According to the invention the cup-shaped shoe has an aperture designed to receive the end of the corresponding leg of the stand so that this leg can be inclined at will and it has a removable holding device for connecting the shoe with the leg and consisting of a clamping spring on the upper side of the cup-shaped shoe.

An anti-slipping device according to the invention is shown, by way of example, in the accompanying drawing.

Fig. 1 is a cross section on line A—B of Fig. 2.

Fig. 2 is a top plan view.

Fig. 3 shows in perspective view an anti-slipping device with an inclined leg of the stand inserted in the device.

The cup-shaped foot support *a*, the lower edge of which is designed to rest upon the floor, has on its outer side a friction-ring *g* extending round the lower edge and held by a mounting *h*. The cup-shaped support *a* has a concavity *k* in its upper surface and a central bore *b* for the point *i* of the leg *m* of the stand. The bore *b* is comparatively narrow so that only a portion of point *i* projects over the lower surface of the cup *a*.

The removable connection of the cup-shaped-support *a* with the point *i* of the leg of the stand is arranged on the upper side of the support *a* and consists of a two-armed clamping spring *l*, the arms of which cross one another over the leg *m* and strongly press upon the collar *n* which is fixed on the leg *m* above the point *i*. The free ends of the clamping spring are bent at *o*, so that the extreme ends *p* form handles projecting over the rim of the cup-shaped support *a*, the bent portions *o* bearing against the cavity *k* of the cup.

To clamp a leg the handles *p* of the clamping spring are pressed the one towards the other so that the arms open sufficiently to permit of inserting point *i* of the leg *m*. When the handles *p* are released, the arms of the clamping spring clamp the leg *m* on two opposite points and bear onto the collar *n* above point *i*. In this manner a secure connection, independent of the shape of point *i*, is obtained between the two elements. When the leg *m* of the stand is inclined, the arms of the clamping-spring yield, as shown in Figs. 3 in continuing however to securely hold the leg *m* and collar *n*, so that the connection between support and leg is ensured in any inclined position of said leg.

The improved anti-slipping device according to the invention, admits of an inclination of the leg which up to the present could not be obtained.

Instead of the bore *b* a semi-spherical cavity in the bottom of the cavity *k* might be provided to serve as bearing for point *i* of the leg. The clamping spring might be of another shape than shown, for instance might the two arms be fixed to opposite points of the rim of the cup-shaped support.

I claim:—

1. An anti-slipping attachment for the feet of tripod legs and the like comprising a socket member having a concaved wall provided with an opening therein, and fastening means consisting of a pair of spring clamping members each secured at one end to the socket member and having a free end having an operating handle, the intermediate portions of said clamping members being bent in reverse directions and having clamping portions overlying said opening and adapted to grip the leg between, said clamping portions being relatively movable by means of said operating handles and adapted to permit yielding universal movement of the clamped leg.

2. An anti-slipping attachment for the

feet of tripod legs and the like comprising a member having an opening to receive the point of the end of the leg, and a pair of spring clamps each secured at one end to said member and having a manipulating handle at its opposite end, the intermediate portions of the clamps being offset in opposite directions and providing clamping portions to engage the end of the leg and to permit yielding movement thereof in all directions radially of said member.

In testimony whereof I affix my signature.

RICHARD WÖRSCHING.