April 1, 1969 R. R. SCHERER 3,435,912

LADDER SAFETY SUPPORT

Filed Oct. 16, 1967

Fig.1

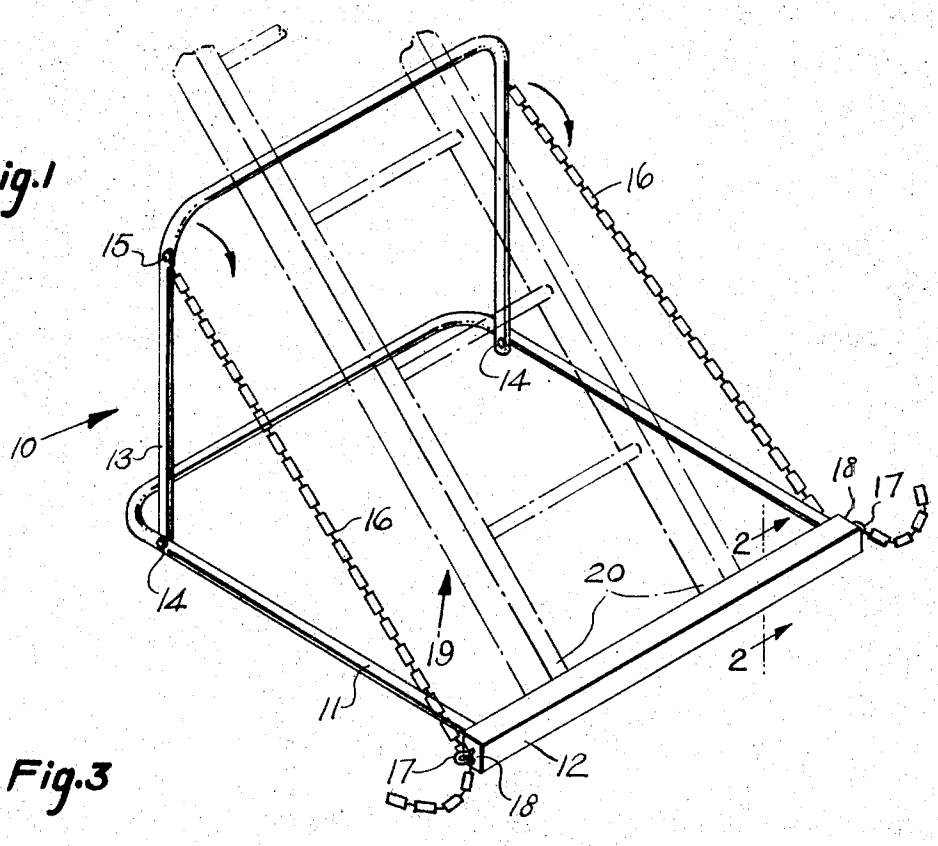


Fig.3

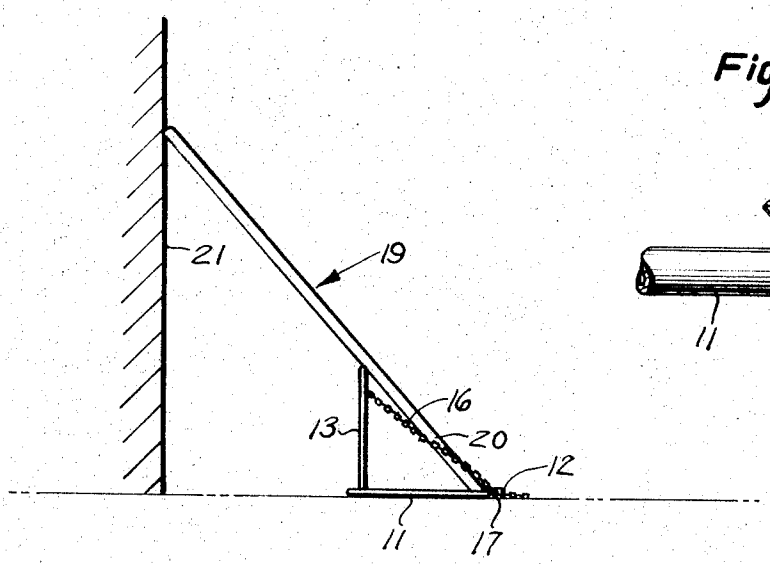
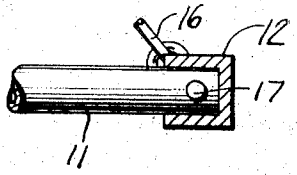


Fig.2



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LADDER SAFETY SUPPORT

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U.S. Cl. 182—107 4 Claims

ABSTRACT OF THE DISCLOSURE

A safety device for ladders that prevents the danger of a ladder slipping when in use. This device is equipped with a collapsible frame portion having a U-shaped tubular member at the base which is closed off by a U-shaped channel member against which the bottom of the ladder may rest, a second U-shaped member is inverted and pivotably connected to the bottom U-shaped member and resting the lower portion of the ladder when the ladder is placed against a wall, and chain members secured to the structure of the device to prevent the over-extending of the U-shaped member on the underside of the ladder at its lower portion.

This invention relates to supporting devices and more particularly to a supporting device for ladders.

It is therefore the main purpose of this invention to provide a ladder safety support which consists of a porable, folded up frame, the frame having a channel member at its base and an upright member at the other end of the base, forming a protective frame which will prevent the slipping of the bottom of the ladder.

Another object of this invention is to provide a ladder safety support which is simple in construction and principle and is light in weight so that it may be carried easily.

A further object of this invention is to provide a support for ladders which shifts the point of normal slippage at the bottom of the ladder to an upper portion at which an upright member of the device will prevent further movement of the ladder.

Other objects of the present invention are to provide a ladder safety support which is simple in design, inexpensive to manufacture, rugged in construction, easy to use and efficient in operation.

These and other objects will be readily evident upon a study of the following specification and the accompanying drawing wherein:

FIGURE 1 is a perspective view of the present invention showing the ladder in phantom lines;

FIGURE 2 is an enlarged cross-sectional view taken along the lines 2—2 of FIGURE 1; and

FIGURE 3 is a side view of the invention showing the ladder in position against a wall.

According to the present invention, a safety ladder support **10** is provided with a base tubular U-shaped member **11**, the open end of which is secured in a suitable manner within a length of U-shaped channel member **12**. An upright U-shaped tubular member **13** is secured at its open end by bolt **15** to the inner side of tubular member **11** and is thus pivotable about the bolt **14**. A clevis bolt **15** is secured to the side of member **13** and has a chain **16** secured to it. The other end of chain **16** is secured at any one of its lower links to hooks **17** which are secured to and extending from end walls **18** of channel member **12**. The ladder **19** when in position rests upon the upright member **13** near its lower extremity and the legs **20** abut with channel

member **12** when ladder **19** is placed against wall **21**. In use, when ladder **19** has sufficient weight in the area upwards of the member portion of member **13**, it may tend to slide away from wall **21**, however, the weight instead is directed toward member **12**, which forms a flat stabilizing support to prevent slippage.

It shall be noted that the free ends of chain **16** allow for various adjustments of the length by placing any one of the lengths upon the hook **17** of channel member **12**.

It shall further be noted that the tubular member **11** in conjunction with channel member **12** form a maximum of frictional gripping of the ground in order to prevent ladder **19** from slipping.

While various changes may be made in the detailed construction, it is understood that such changes will be within the spirit and scope of the present invention as is defined by the appended claims.

What I now claim is:

1. A ladder safety support device comprising a base member of U-shaped tubular construction, a U-shaped channel member carried by said base providing abutment means for legs of said ladder, a pivotable upright U-shaped tubular member carried by said base providing support means for said ladder, a pair of adjustable chains carried by said base and said upright tubular member providing support for said device and hook means carried by said base for engagement with said chains for said device.

2. The combination according to claim **1**, wherein, the U-shaped tubular member of said base of said device is secured at its open end within said U-shaped channel member of said base and said U-shaped upright tubular member is secured at its open end to the interior of the closed end of said base U-shaped tubular member by a pair of bolts, thus allowing said upright member to fold downwards to said base of said device when said support device is not in use.

3. The combination according to claim **2**, wherein, bolts extending from said upright member are secured to one end of said chains and said chains provide support means for said upright member when the lower extremity of said chains are received upon hooks extending from the end walls of said U-shaped channel member of said base.

4. The combination according to claim **3**, wherein said base member providing said U-shaped channel member and said U-shaped tubular member forms a frictional stop for the bottom of said ladder when said ladder is placed within the confines of said safety ladder support device and any tendency for said ladder to slip when weight is placed upwards and away from the cross-bar portion supporting said ladder, said base member prevents movement of the bottom of said ladder by said legs of said ladder being in engagement and abutment with said U-channel member and the ground.

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