

K. KNUDSON.
HANDLE.
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1,273,379.

Patented July 23, 1918.

Fig. 1.

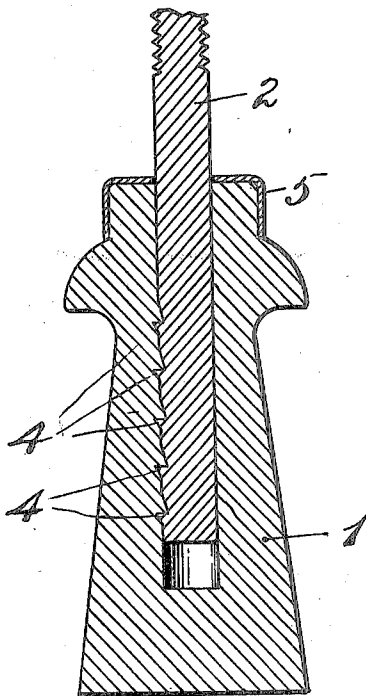


Fig. 2.

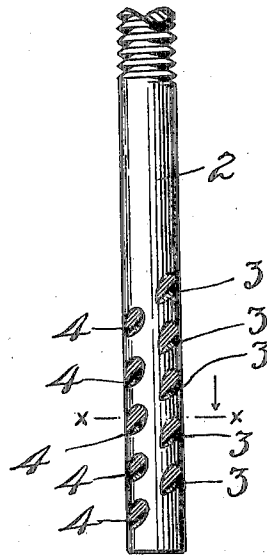


Fig. 4.

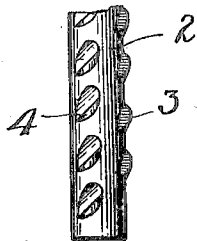
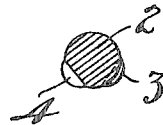


Fig. 3.



Inventor,
Knut Knudson,
By his Attorneys
Mitchell & Allen.

UNITED STATES PATENT OFFICE.

KNUD KNUDSON, OF PLAINVILLE, CONNECTICUT, ASSIGNOR TO THE TRUMBULL ELECTRIC MANUFACTURING CO., OF PLAINVILLE, CONNECTICUT, A CORPORATION OF CONNECTICUT.

HANDLE.

1,273,379.

Specification of Letters Patent.

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To all whom it may concern:

Be it known that I, KNUD KNUDSON, a subject of the King of Denmark, residing at Plainville, Connecticut, have invented a new and useful Handle, of which the following is a specification.

My invention relates to an improved handle, and consists in providing a novel means of connection between the handle grip usually made of wood, and the metallic core the outer end of which may be of any suitable formation, but which in this particular instance is threaded whereby the handle may be secured to the thing to which the handle is to be connected by means of a nut.

The object of the invention is to provide an improved means of connection between the handle grip and said metallic core which decreases materially the chance of splitting the former when the latter is inserted, and by which an effective permanent connection between said parts may be provided.

In the drawings:

Figure 1 is a longitudinal section of the assembled handle grip and the core, the same being relatively enlarged.

Fig. 2 is a side elevation of the core.

Fig. 3 is a cross section of the core on the line $x-x$ of Fig. 2.

Fig. 4 is a side elevation of the core viewed from a plane at right angles to the plane of Fig. 2.

1 represents the main body of the handle grip which may be of any suitable design, and which is provided with a longitudinal bore extending partially through the same. 2 is the core in the form of a metallic bar of a diameter adapted to snugly fit in the bore of the grip 1. As will be seen, the core is of substantially the same diameter throughout, and is blunt at its inner end so that it may be driven full depth into the bore, if desired, without danger of splitting. On one side of the metallic core are a series of spurs 3-3 arranged in line and formed by cutting into the metal of the core obliquely, so as to give to each spur a lip formation, that is to say, a form in which the spur is of greater length than thickness, the direction of each of said spurs being spiral with respect to the axis of the core. If desired, a second series of spurs 4-4 may be provided, the same being spaced apart longitudinally from the spurs 3-3. The individual spurs of each set or series is pref-

erably arranged in practically the same spiral with the individual spurs of the other set. The major portion of the surface of the core 2 is smooth, so that when the core is driven in, the surrounding wall of wood will not be unnecessarily cut or deformed. It is apparent that by the arrangement of spurs shown, when the core is driven home it will be impossible to either twist the same within the grip or withdraw the same therefrom, since the pitch of each of the spurs is such as to prevent both rotary and longitudinal movement. In the preferred form, the spurs are formed only on one side of the core 2, since if the core partakes of a partial turn as it is driven in, and as would be the tendency because of the spiral arrangement of the spurs, the said spurs will encounter only solid wood on said partial turn, so that when the core is fully seated it will effectively resist the separation of the grip therefrom. It will be understood of course that after the core is fully seated, the temporarily displaced wood of the surrounding wall will tend to swell and fill the spaces adjacent to the spurs. 5 represents the conventional ferrule which may be applied at the inner end of the handle.

I have found that a handle constructed as above is of particular value in connection with electric switches, for instance, of the knife switch type wherein the handle is connected to a cross bar by means of a nut. Although the handle construction has particular utility in connection with the switch it should be understood that I do not care to limit its use thereto.

What I claim is:

1. In a handle of the character described, a grip having a longitudinal bore therein and a core comprising a metallic bar of a diameter closely fitting said bore and provided with a series of outstanding ribs having abrupt upper faces and sharpened outer cutting edges, said ribs extending on an incline to the axis of the core.

2. In a handle of the character described, a grip having a longitudinal bore therein and a core comprising a metallic bar of a diameter closely fitting said bore and provided with a series of longitudinally separated outstanding ribs extending on an incline to the axis of the core and a second series of longitudinally separated outstanding

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ribs extending on an incline to the axis of the core and in line with the inclined ribs of the first set to thereby constitute in effect extensions of said first set of inclined ribs.

5 3. In a handle of the character described, a grip having a longitudinal bore therein and a core comprising a metallic bar of a diameter closely fitting said bore and pro-

vided on one side only thereof, with two series of longitudinally separated outstand- 10
ing ribs inclined to the axis of the core and having curved sharpened outer cutting edges and abrupt upper faces for holding engagement in the material of the grip.

KNUD KNUDSON.