

Cable lead-in for an electric iron

The invention relates to a cable lead-in for an electric iron, comprising an elastically deformable and perforated anti-kink cable sleeve adapted to be pivotally mounted on an iron and
5 to receive an electric cable through the sleeve interior.

The conductor cable of electric irons is subjected to considerable bending and kinking at the point where it enters the appliance. The resulting
10 damage is supposed to be prevented by elastically deformable anti-kink sleeves with a perforated casing in known irons. Nevertheless, cable fractures still occur even in the region of the anti-kink sleeve. As a result of the flareback which might
15 occur, there is a danger that the flame will pass through the casing of the anti-kink sleeve in the region of the perforations of the casing and cause burns to the arms or hands of the user of the iron.

The aim of the invention is to reduce the
20 likelihood of injury to the user of an iron in the form of burns caused by cable fractures in the region of the cable lead-in.

Accordingly, the invention provides a cable lead-in for an electric iron, comprising an elastically
25 deformable and perforated anti-kink cable sleeve adapted to be pivotally mounted on an iron and to prevent kinking of an electric cable received through the sleeve interior, and a hand protection shield overlapping the sleeve on one side thereof
30 and spaced therefrom by an air gap so as to protect a user's hand from heat and/or flame in the event of fracture of the electric cable passing through the sleeve.

When the cable lead-in is used on an electric iron, due to the hand protection shield the hands and arms of the user of the iron are reliably protected from burns in the event of cable fracture, for
5 example in the region of the cable lead-in opening. In the event of cable fracture in the region of the anti-kink sleeve, although the occurrence of flareback at the fracture point is not prevented, the flame cannot penetrate the anti-kink sleeve
10 in the region of the casing perforation and thereby arrive unhindered on the hand or lower arm of the person ironing. The flareback which might occur is diverted and simultaneously cooled in the air gap between the anti-kink sleeve and the hand protection
15 shield. This reliably prevents burn injuries.

Advantageously, the hand protection shield and anti-kink sleeve are integrally formed. Preferably the hand protection shield and the anti-kink sleeve are rigidly connected to one another in the region
20 where the sleeve is to be pivotally mounted on the iron. With such an arrangement it is possible to ensure that the hand protection shield follows all possible movements of the pivotable anti-kink sleeve. The hand protection shield is then always
25 at generally the same spacing from the anti-kink sleeve and consequently the width of the air gap between the hand protection shield and the anti-kink sleeve also remains constant.

The invention also provides an iron provided
30 with a cable lead-in as discussed herein.

An embodiment of the invention will now be described by way of example and with reference to the accompanying drawing, which shows a partly sectioned side view of a cable lead-in connected
35 to an iron.

The cable lead-in shown by way of example consists of an elastically deformable anti-kink

cable sleeve 1 for the electric cable 2 of an electrically heated iron. The sleeve 1 is pivotally fixed to the back wall 3 of the iron. The outer surface of the anti-kink sleeve 1 is perforated and the

5 cable exit opening 8 is funnel-shaped in construction. In the region of the pivot axis 7, a hand protection shield 4 in the form of a cover plate is secured on one side of the outer surface of the anti-kink cable sleeve 1. The hand protector 4 is arcuate

10 in transverse section and overlaps the anti-kink sleeve 1 in a half-shell configuration. The free end 5 of the hand protection shield 4 extends towards the cable exit opening 8 to form an air gap 6 between the sleeve casing and the hand protection shield 4.



Claims

1. A cable lead-in for an electric iron, comprising
an elastically deformable and perforated anti-kink
cable sleeve adapted to be pivotally mounted on
an iron and to prevent kinking of an electric cable
5 received through the sleeve interior, and a hand
protection shield overlapping the sleeve on one
side thereof and spaced therefrom by an air gap
so as to protect a user's hand from heat and/or
flame in the event of fracture of the electric
10 cable passing through the sleeve.
2. A cable lead-in as claimed in claim 1, wherein
the hand protection shield and the anti-kink sleeve
are rigidly connected to one another in the region
15 where the sleeve is to be pivotally mounted on
the iron.
3. A cable lead-in as claimed in claim 1 or
2, wherein the hand protection shield is arcuate
20 in transverse section.
4. A cable lead-in for an electric iron substan-
tially as hereinbefore described with reference
to the accompanying drawings.
25
5. An electric iron provided with a cable lead-
in as claimed in any preceding claim.