Nov. 19, 1929. I. W. MILLARD 1,736,209

HAND PAD

Filed Jan. 16, 1928

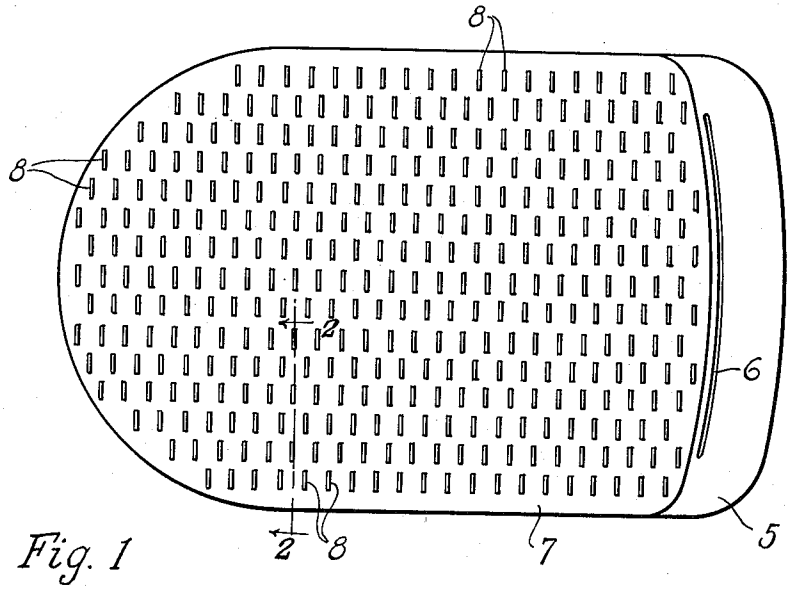


Fig. 1

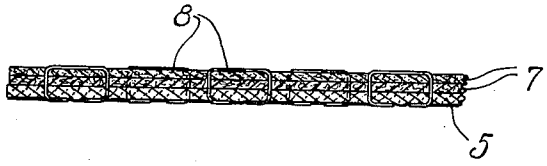


Fig. 2

INVENTOR:
Irwin W. Millard
By Chindahl, Parker & Carlson.
Attys.

Patented Nov. 19, 1929 1,736,209

UNITED STATES PATENT OFFICE

IRWIN W. MILLARD, OF CHICAGO, ILLINOIS, ASSIGNOR TO INDUSTRIAL GLOVES CORPORATION, OF CHICAGO, ILLINOIS, A CORPORATION OF DELAWARE

HAND PAD

Application filed January 16, 1928. Serial No. 246,999.

The invention relates to hand pads and more particularly to pads of this character especially adapted for use as an auxiliary protection for persons who are engaged in handling hot articles, such as castings and the like.

It is generally well known that in various industries it is necessary for a workman to handle various hot articles and objects during the process of manufacture. Special forms of means for protecting the workmen against injury by these hot articles must be provided and the generally well known type of such protective means are clumsy, expensive and furnish inadequate protection. Moreover, pads of this character, which have been constructed of leather, dry rapidly under the heat to which they are subjected causing the pad to crack and become useless in a very short time.

An object of the invention, therefore, is to provide a new and improved pad of this type which is an efficient heat insulator, is exceedingly durable and which may be easily and economically manufactured.

Another object of the invention is to provide a hand protecting pad of this character in which a leather protecting surface is substantially insulated from heat by an asbestos layer secured thereto by means which provides a metallic surface for engaging the hot articles.

Other objects and advantages will become apparent in the following description and in the accompanying drawings, in which

Figure 1 is a plan view of the preferred form of the invention.

Fig. 2 is an enlarged cross section of a fragmentary portion of the pad taken upon the lines 2—2 of Fig. 1.

In attaining the object of the invention a hand protecting pad has been provided which comprises a plurality of thicknesses of material. Preferably, such thicknesses are of different physical characteristics in that one provides strength and durability to the pad while another provides the desired insulation against heat. In the present embodiment the pad comprises a base thickness 5 of a size sufficient to cover the palm and the fingers of the wearer's hand and preferably extends a substantial distance beyond the hand. The base 5 is formed of a suitable tough, pliant and durable material such as leather, which is well adapted to withstand hard wear and usage. A strap member for holding the pad in operative relation to the wearer's hand is provided by forming a narrow slot 6 near one end of the base which extends transversely of the pad and is preferably somewhat arcuate in shape.

The heat resisting layers 7, of which two are shown in the present embodiment, are mounted upon the base and preferably are secured thereto by means of a plurality of steel staples 8. These layers cover substantially the entire surface of the leather base but stop short of the end in which the slot 6 is provided so that the slot remains exposed. In this instance, these layers are formed of asbestos cloth which is pliant and yet which is capable of withstanding a high degree of heat. It will be seen that when the pad is used the asbestos layers insulate the leather backing from the heat of the article so that the leather will not become dry and brittle.

As may be seen in Fig. 1, the fastening means 8 are spaced closely together throughout substantially the entire surface of the heat resisting layers, thus insuring that every part of the asbestos cloth which possesses little tensile strength, will be greatly strengthened and reinforced by the leather base. Preferably the staples 8 are spaced so closely together that they provide in effect a flexible, metallic surface which engages the surface of the article and prevents an intimate contact of the article and the asbestos layer. Since the operator invariably wears gloves in addition to the protecting pad, the small amount of heat which is conducted through the pad by the staples will not be sufficient to injure the operator.

It will be apparent that a hand pad has been provided in which the inherent strength of the base thickness is combined with the heat resisting property of the superimposed thicknesses so that the completed article is capable of withstanding hard usage and of resisting high degrees of heat.

In use the hand of the wearer is inserted through the slot in the base until the edges of the slot are about the wearer's wrist in which position the palm of the hand rests against the rear or exposed surface of the base thickness. In this manner the metallic staples and the asbestos surface of the pad will always be in position to engage the hot surface of an object thus protecting the wearer from the heat of the object. Moreover, the pad is adapted to be suspended from the wearer's wrist so as to be instantly available for use.

While the invention is susceptible of various modifications and alternative constructions, I have shown in the drawings and herein described in detail the preferred embodiment, but it is to be understood that I do not thereby intended to limit the invention to the specific form disclosed but intend to cover all modifications and alternative constructions falling within the spirit and scope of the invention as expressed in the appended claims.

I claim as my invention:

1. A hand pad comprising, in combination, a pliant leather base having a transverse slot near one end thereof, a plurality of layers of woven asbestos cloth of a size substantially to cover the surface of said base, and metallic means for securing said asbestos cloth to said base at a large number of points across the surface thereof.

2. A hand pad comprising, in combination, a tough, pliant, substantially flat base of ample size to cover a wearer's hand, a strap near one end of said base constructed to fit about a wearer's wrist to maintain the pad in operative relation to the wearer's hand, a heat insulating protective facing composed of woven asbestos cloth substantially covering one side of said base, and a plurality of metal staples passing through said facing and said base and dispersed throughout the surface of said facing for securing said base and facing intimately together.

In testimony whereof, I have hereunto affixed my signature.

IRWIN W. MILLARD.