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2,019,975

MEANS FOR SPREADING OR REMOVING MATERIALS

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Fig. 1.

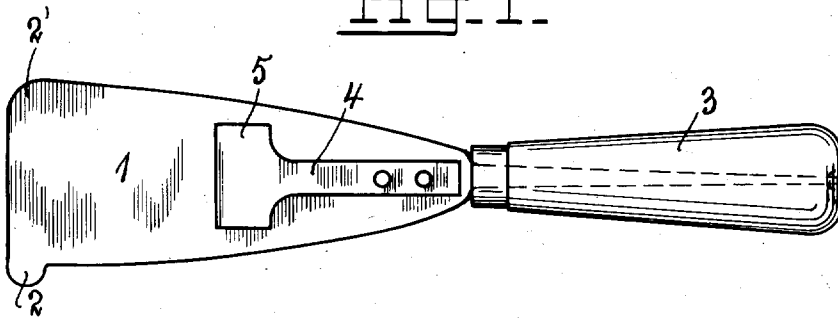


Fig. 2.

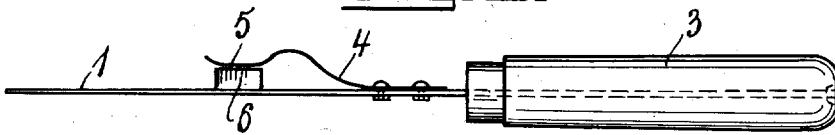


Fig. 3.

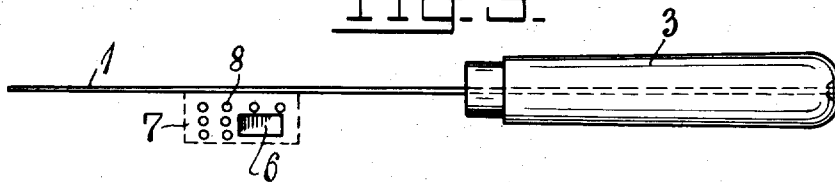
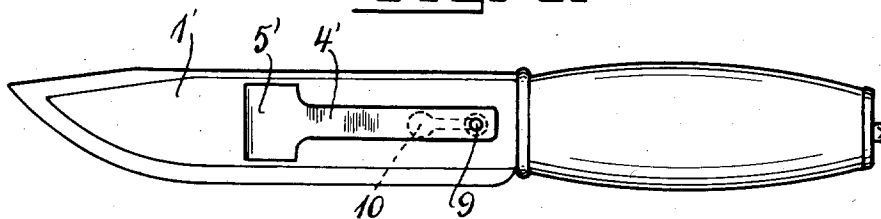


Fig. 4.



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UNITED STATES PATENT OFFICE

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MEANS FOR SPREADING OR REMOVING
MATERIALS

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In Norway and Germany October 11, 1934

1 Claim. (Cl. 18—3.5)

The purpose of the present invention is to provide an implement, generally in the shape of a knife and adapted to be used as a scraper, especially for the purpose of applying, spreading or removing materials from surfaces, said materials being of that type which is more easily worked when heated.

The object of this invention is especially adapted in combination with scraping arrangements provided for the application, spreading or removing of that type of materials which for the time being is used as a smearing on the underside of skis. This type of materials consists of a very sticky and unhandy pastelike wax and is very hard to spread evenly over the surface of the ski. This difficulty is furthermore increased when the skis are cold or when the work has to be done when the skis are wet or when out in the field. But even if the application of ski wax takes place within a warm room, it is very difficult to spread the wax evenly over the surface of the skis.

When using ski wax it is furthermore very often the case that the wax which already is on the skis, must be removed before new wax is applied, this for the purpose of adapting the skis for the particular type of snow on which the skiing is to be done.

Previously it has been common in doing this work to heat the skis by means of a plumber's lamp or by means of a special heating arrangement made for this purpose and designed in the general shape of a flat iron. After the skis or the wax then have been heated up, it has been the common practice to spread it over the undersides of the skis, either by the flat of the hand or by means of a specially designed scraper knife.

The object of this invention is to provide an implement which in a simple and effective way may be used as well for the application, spreading or removing of ski wax or other similar materials on the surface, as at the same time serving to heat these materials in such a way that they may be more easily worked. In order to fulfill this object, the invention consists in an improvement in means for the application, spreading or removing of materials, which more easily are worked in hot condition and is characterized thereby that the blade of the knife or the handle is provided with means adaptable to hold fuel, for instance in the shape of a fuel tablet, which when ignited, will heat as well the blade of the knife as the material which is to be applied, spread or removed, and which is located very close to the blade of the implement.

The invention may take different shapes, thus it is possible in the most simple and really preferred form of the invention to provide the blade with a leaf spring holder, which may be adapted to hold a fuel tablet, for instance one of those which in the trade is named "meta tablets", between itself and the blade proper of the implement, or the invention may be worked that way that it on the side of the blade is arranged a small perforated chamber, adapted to receive the fuel.

Further ways of attaching the fuel to the blade of the scraper may be proposed.

When the scraper according to this invention is designed for the purpose of scraping or applying wax to the underside of skis, it may furthermore be provided with rounded sections, adapted to work the groove on the underside of the ski.

In order that the invention may be easily understood and that the novelty may plainly appear, it will in the following be described with reference to the drawing, illustrating some preferred embodiments of the invention.

In the drawing,

Fig. 1 illustrates a scraper according to this invention with a blade, substantially in the shape of a putty knife.

Fig. 2 illustrates the same, seen from the side.

Fig. 3 illustrates a modified embodiment, seen from the side, and

Fig. 4 illustrates another modification.

In the drawing, Figs. 1, 2 and 3, 1 is the knife blade, substantially shaped as a putty knife. The blade may, on one or both sides, be provided with rounded sections 2 or—as shown in the drawing—with a rounded section 2 on one side and a just rounded corner 2' on the other side, or finally the blade may only be provided with rounded corners 2'. These rounded corners or extensions are provided to make the implement adaptable to work a groove, as for instance the groove on the underside of the skis. The blade 1 is attached to the shaft 3, which may be made of any suitable material.

In the embodiment shown in Figs. 1 and 2, it is arranged a leaf spring 4 which is riveted to the blade 1 and which is provided with a transversely extending flat head 5. This spring may be lifted from the knife blade 1 in such a way that a fuel tablet 6 may be placed between this and the knife blade 1 as shown in Fig. 2.

In the embodiment shown in Fig. 3, the spring arrangement 4, 5 has been replaced by a small perforated chamber 7, adapted to receive the fuel

tablet 6. When the fuel tablet 6 is ignited, the heat will penetrate through the perforations 8 in the chamber 7.

It will be understood that even if the invention as described above preferably for use in connection with skis should be made in the shape of a putty knife, having a springy steel blade, it may also be made in other shapes, as for instance in the shape of an ordinary hunter's knife as illustrated in Fig. 4. In this embodiment it will be of importance that the spring 4' may be removable from the knife blade, so that the spring will not hinder the ordinary work with the knife. This may be arranged thereby that the spring 4' is attached to the blade 1' by means of a head-

ed pin 9 which may be put through a keyhole shaped hole 10 in the knife, being thereby fastened in a way known to everybody.

I claim:

Means for the application, spreading and removing of pastelike material and for simultaneously heating the same, consisting in a knife blade, comprising a handle and means attached to the same and adapted to hold a fuel in such a way that, when ignited, it will heat the blade, 10 said means for holding the fuel consisting in a leaf spring, adapted to press against the said blade.

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