May 5, 1925. 1,536,542

H. A. WEGNER

COMBINATION FIRE BRUSH AND HOE

Filed Oct. 15, 1923

FIG. 1.

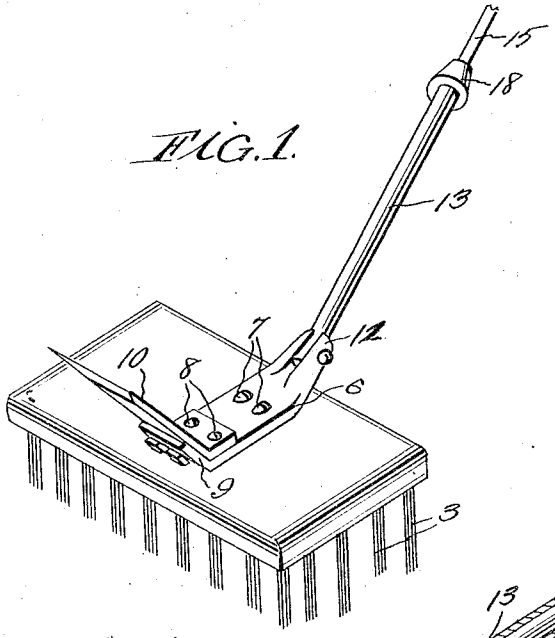


FIG. 5.



FIG. 2.

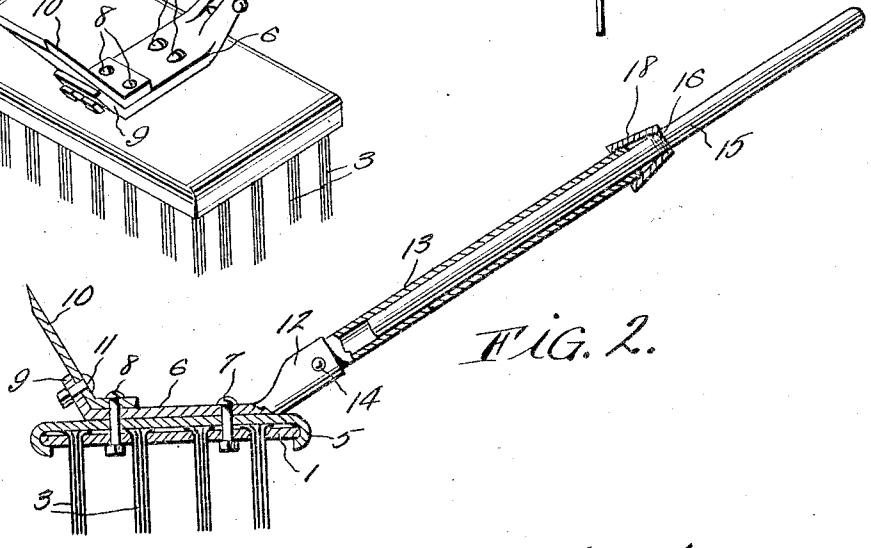


FIG. 3.

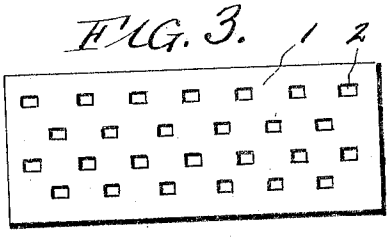
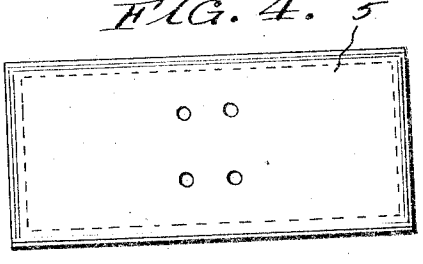


FIG. 4.



Witnesses:

Inventor

HERMAN A. WEGNER.

By Richard B. Owen.

Attorney

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UNITED STATES PATENT OFFICE.

HERMAN A. WEGNER, OF THIEF RIVER FALLS, MINNESOTA.

COMBINATION FIRE BRUSH AND HOE.

Application filed October 15, 1923. Serial No. 668,754.

To all whom it may concern:

Be it known that I, HERMAN A. WEGNER, a citizen of the United States, residing at Thief River Falls, in the county of Pennington and State of Minnesota, have invented certain new and useful Improvements in Combination Fire Brushes and Hoes, of which the following is a specification.

The present invention relates to a combination fire brush and hoe and is designed for the purpose of subduing, controlling, and putting out forest fires. It is used to smother and move leaves, mold, and other light combustible material into the fire line and deprive the fire of fresh material for its existence. The hoe may be used for raking or hoeing and moving combustible material from the path of the fire down to the dirt or ground.

The object of the invention is to provide a device of this nature having a simple and efficient construction, one which is reliable in operation, inexpensive to manufacture, durable, and well adapted for the purpose for which it is designed.

With the above and numerous other objects in view which will appear as the description progresses, the invention resides in certain novel features of construction, and in the combination and arrangement of parts as will be hereinafter more fully described and claimed.

In the drawing:

Figure 1 is a perspective view of the device embodying my invention;

Figure 2 is a sectional view therethrough;

Figure 3 is a plan view of the bristle plate;

Figure 4 is a plan view of the cover plate; and

Figure 5 is an elevation of one of the bristles.

Referring to the drawing in detail it will be seen that 1 designates what I call a bristle plate for purposes of identification, said plate being preferably formed from sheet iron and perforated to provide a plurality of openings 2. The bristles 3 are formed from flat steel tempered wire bent at an angle at one end as shown at 4 so as to be substantially L-shape in formation. The bent ends of the bristles are inserted through the openings 2 of the plate 1 and as is shown to advantage in Figure 2 the shorter legs of the bristles are clamped between the plate 1 and the plate 5 which I call a cover plate. This cover plate has its edges crimped or bent about the edges of the plate 1 as is indicated to advantage in Figure 2. A strap 6 is attached to the plate 5 preferably by means of bolts 7 and 8 passing through the strap and the plates 1 and 5 thereby securely holding the strap in place and also aiding in clamping the two plates together to firmly hold the bristles 3 in place. One end of the strap 6 is disposed at an angle to its body as shown at 9 and a hoe blade 10 of angular construction is attached to the body of the strap 6 and the extension 9 by means of the bolts 8 and bolts 11. The other end of the strap 6 is provided with an angularly extending clamp socket 12 and a tubular handle member 13 is inserted therein and held in place by a bolt 14. An auxiliary handle member 15 is provided with a threaded portion 16 intermediate its ends disposed closer to one end than the other. This auxiliary handle member 9 is adapted to be inserted into the tubular member 13 and a coupler 18 is threadedly engaged with a portion 16 and the end of the tubular member 13 for holding the auxiliary handle member in place. Thus it will be seen that the handle consisting of members 15 and 13 may be lengthened or shortened depending upon which end of the auxiliary handle member 15 is inserted in the tubular member 13.

While the preferred embodiment of my invention has been described in detail, it will be understood that I do not wish to be limited to the particular construction set forth, since various changes in the form, material, proportions and arrangement of parts, and in the details of construction may be resorted to without departing from the spirit or scope of the invention or sacrificing any of its advantages.

What is claimed is:

A brush including a flat rigid bristle plate having rectangular perforations, a plurality of flat-wire bristles fitted in each of said perforations and having laterally directed upper ends, a flat rigid cover plate disposed upon the bristle plate and having its margin turned about the edges of the

bristle plate for securing said plates together, said laterally directed upper ends of the bristles being clamped between the lower surface of the cover plate and the upper surface of said bristle plate, and means securing the central portions of said plates together.

In testimony whereof I affix my signature in presence of two witnesses.

HERMAN A. WEGNER.

Witnesses:
FRED D. LORENTSON,
H. M. HUOT.