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UNITED STATES PATENT OFFICE.

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DEVICE FOR EXTINGUISHING FIRES.

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This invention relates to a new and improved apparatus or tool for extinguishing fires.

One of the objects of this invention is to provide a new and improved device or tool for this purpose which shall be especially efficient for extinguishing fires in large piles of coal, or various kinds of combustible material.

Another object of this invention is to devise a tool or device which shall be especially efficient for extinguishing fires produced by spontaneous combustion in large piles of soft coal, or other substances, such as raisin seeds, etc.

Other objects of this invention will be set forth in the following description and drawings which illustrate a preferred embodiment thereof, it being understood that the above general statement of the objects of this invention is intended merely to generally explain the same and not to limit it in any manner.

Fig. 1 is an elevation.

Fig. 2 is a detail sectional view

It has been known for many years that fires frequently occur by reason of spontaneous combustion in large piles of soft coal. Ordinary methods of extinguishing fires as, for example, by spraying water upon the outside of the pile of coal, are not efficient because the fire usually starts in the interior of the pile of coal and ordinarily at or near the bottom of the pile of coal.

According to this invention, a tool or device is provided which can be readily forced into the interior of the pile of coal, at or near the bottom thereof, so that the water can be applied in the most efficient manner.

The improved tool or device comprises a tapered nozzle N provided with an external thread 10, and with perforations 11. The inner end of the nozzle N is preferably internally threaded and it is connected to the pipe 1 by means of the coupling 12, which can be of any suitable type. The pipes 1, 4, 6, 7 and 9 are connected by the intermediate angular coupling members 2, 3, 5 and 8, which can be of any suitable type.

The last pipe 9 is preferably aligned with the first pipe 1 and the pipe 9 can be connected by an ordinary revoluble coupling to a flexible hose which is connected to any suitable source of water supply. The parts of the device are made of any suitable metal.

The nozzle N is open at the outer end thereof.

In order to use this improved tool or device, a recess is formed in the burning pile of coal at or near the bottom thereof, as, for example, by shoveling away the coal or other material at this point to form a pocket. The nozzle N is forcibly thrust into this pocket or recess so that the top thereof becomes covered with the coal. Experience has shown that by simply turning the pipe 4 around the common axis of the pipes 1 and 9, the threading 10 operates to force the nozzle N deeper into the pile of burning coal, with great force. Hence, the nozzle is caused to effectively penetrate the pile of coal at any desired point in which it is considered that the application of the water would be most efficient.

The water can squirt out of the nozzle N in all directions, through the openings shown in Fig. 2. The exterior threading 10 can have any desired pitch.

This invention is not restricted to the pipe construction shown in the embodiment herein described and connected to the nozzle N, as this illustrates merely one convenient means for imparting a turning movement to the nozzle N. Likewise, it is obvious that numerous changes and omissions could be made without departing from the spirit of this invention.

It is desirable that the external threading N should be of sufficient width to enable it to engage the pile of material to be acted upon so that the revolution of the said nozzle will cause it to be fed forwardly and with considerable force.

We claim—

A fire extinguishing device comprising a nozzle having an external threading, said threading being of sufficient width to enable said nozzle to be self-propelling when it is turned while it is imbedded in a pile of loose material, rigid pipe means directly and rigidly connected to said nozzle and rotatably connected to a rear pipe member, said rigid pipe means including a portion of substantially U-shaped configuration, having the base of the U in parallel relation with said nozzle.

In testimony whereof we affix our signatures.

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H. L. STRONGSON

CABLE CONNECTER

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Fig. 1.

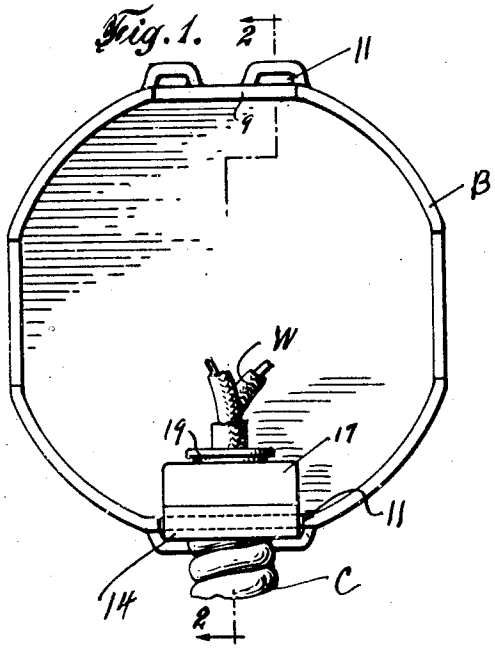


Fig. 2.

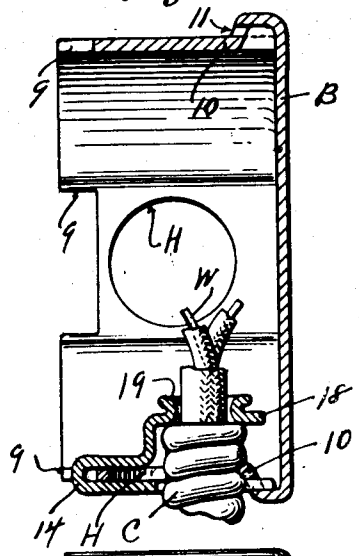


Fig. 3.

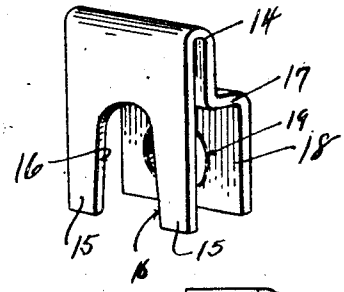


Fig. 4.

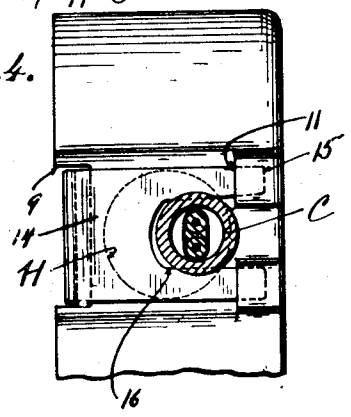


Fig. 5.

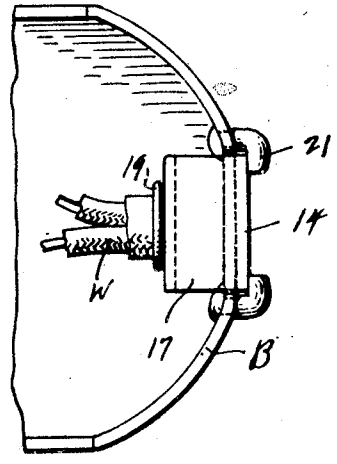
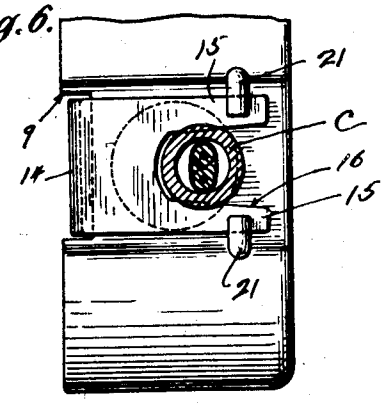


Fig. 6.



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