C. O. HOFFMANN.

FIRE EXTINGUISHING DEVICE.

APPLICATION FILED OCT. 7, 1918.

1,295,166. Patented Feb. 25, 1919.

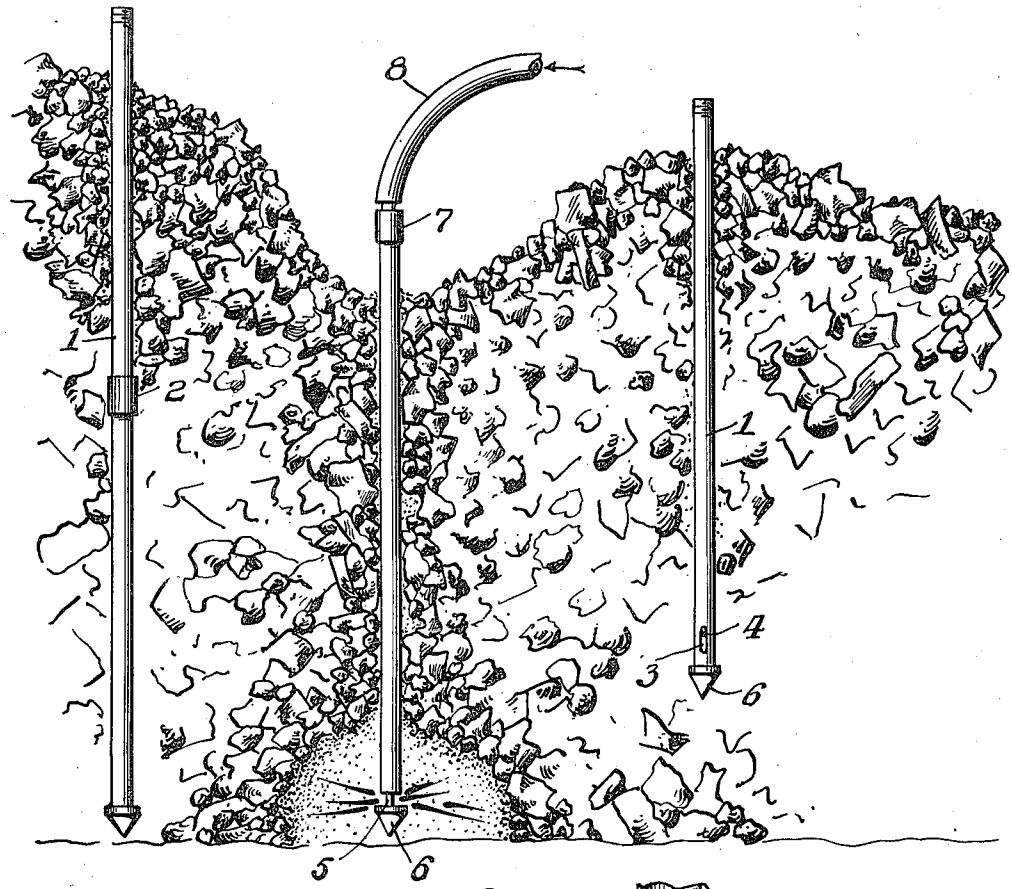


Fig. 1.

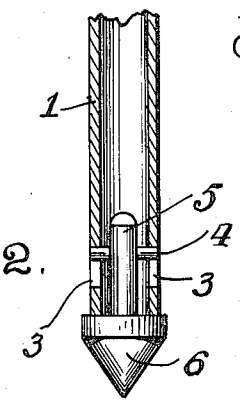


Fig. 2.

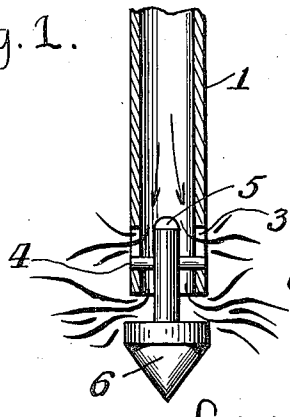


Fig. 3.

Inventor

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UNITED STATES PATENT OFFICE.

CLARANCE O. HOFFMANN, OF DETROIT, MICHIGAN.

FIRE-EXTINGUISHING DEVICE.

1,295,166. Specification of Letters Patent. Patented Feb. 25, 1919.

Application filed October 7, 1918. Serial No. 257,107.

To all whom it may concern:

Be it known that I, CLARANCE O. HOFFMANN, a citizen of the United States of America, residing at Detroit, in the county of Wayne and State of Michigan, have invented certain new and useful Improvements in Fire-Extinguishing Devices, of which the following is a specification, reference being had therein to the accompanying drawings.

The primary object of my invention is to provide a fire extinguishing device that may be advantageously used for putting out fires that occur in large piles of fuel, as coal, or in such places where the source of the fire cannot be conveniently reached by ordinary fire fighting apparatus. Such fires are caused by spontaneous combustion and besides occurring in coal piles such fires are found in mines and subterranean places often causing considerable damage and waste of valuable matter before extinguished.

A further object of my invention is to provide a novel nozzle or water ejecting member that may be readily driven into a pile of coal, without injury to the nozzle, to supply water at the seat of a fire and thus extinguish the same before any material damage is done. The nozzle or water ejecting member may be constructed of one or more sections so as to be used in coal piles of various depths, and in some instances a large number of the fire extinguishing devices may be employed to confine a fire to a known territory until the same is burned out.

My invention will be hereinafter more fully considered and then claimed, and reference will now be had to the drawing wherein—

Figure 1 shows a portion of a coal pile having fire extinguishing devices therein, with one of the devices in active condition;

Fig. 2 is a side elevation of a portion of one of the devices, partly in section, showing the device in an inactive position, and

Fig. 3 is a similar view showing the device in an active position.

The device may be in the form of a single pipe or conduit 1 or a plurality of such pipes or conduits, suitably connected together as at 2, the length of the device depending on the depth and size of a coal pile or the seat of fire to be reached thereby.

The lower end of the pipe or conduit has diametrically opposed longitudinal slots 3 and extending therein are the ends of a cross head or pin 4 carried by the stem 5 of a conical shaped driving member 6, which is adapted to close and protect the lower end of the pipe or conduit as the same is driven into a pile of coal.

The upper end of the pipe or conduit 1 has suitable provision for a coupling member 7 whereby a hose 8 or other water supply member may be connected thereto.

Assuming that the location of the fire has been discovered the pipe 1 is driven downwardly until its lower end reaches the seat of the fire. To do this it may be necessary to use more than one section of pipe and also a suitable block or protecting device on the upper end of the pipe to prevent the same from being injured by blows delivered thereon. After the hose is connected to the upper end of the pipe and the water turned on, the pipe is raised, thereby removing the lower end of the same off of the driving member 6, allowing the water to be discharged from the lower end of the pipe, above the member 6 and also through the slots 3. The water will be discharged with considerable force in all directions and will immediately extinguish a fire in proximity to the lower end of the member or saturate the coal adjacent thereto so as to prevent the fire from spreading.

As shown in Fig. 1 it may be necessary to use a number of the devices, particularly when it is desired to confine fire to a known locality.

From the foregoing it will be observed that I have devised a simple, durable and inexpensive fire fighting device, and it is to be understood that the construction of the same may be varied without departing from the scope of the appended claim.

What I claim is:—

A fire fighting device comprising superposed sections of pipes adapted to have the lowermost section of pipe driven to the seat of a fire and receive water from the upper sections of pipe, a conical driving member at the lowermost section of pipe adapted to contact therewith and protect said pipe during the driving operation thereof, a stem carried by said member and extending into said pipe, and a pin carried by said stem

and having its ends extending into slots in opposed walls of said pipe so that said pipe may be shifted relative to said driving member, said stem having the inner end thereof adapted to deflect water into the slots of said pipe.

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

CLARANCE O. HOFFMANN.

Witnesses:

KARL H. BUTLER,

ANNA M. DORR.