

J. W. BABB.
FIRE EXTINGUISHING APPARATUS.
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966,985.

Patented Aug. 9, 1910.

FIG. 1.

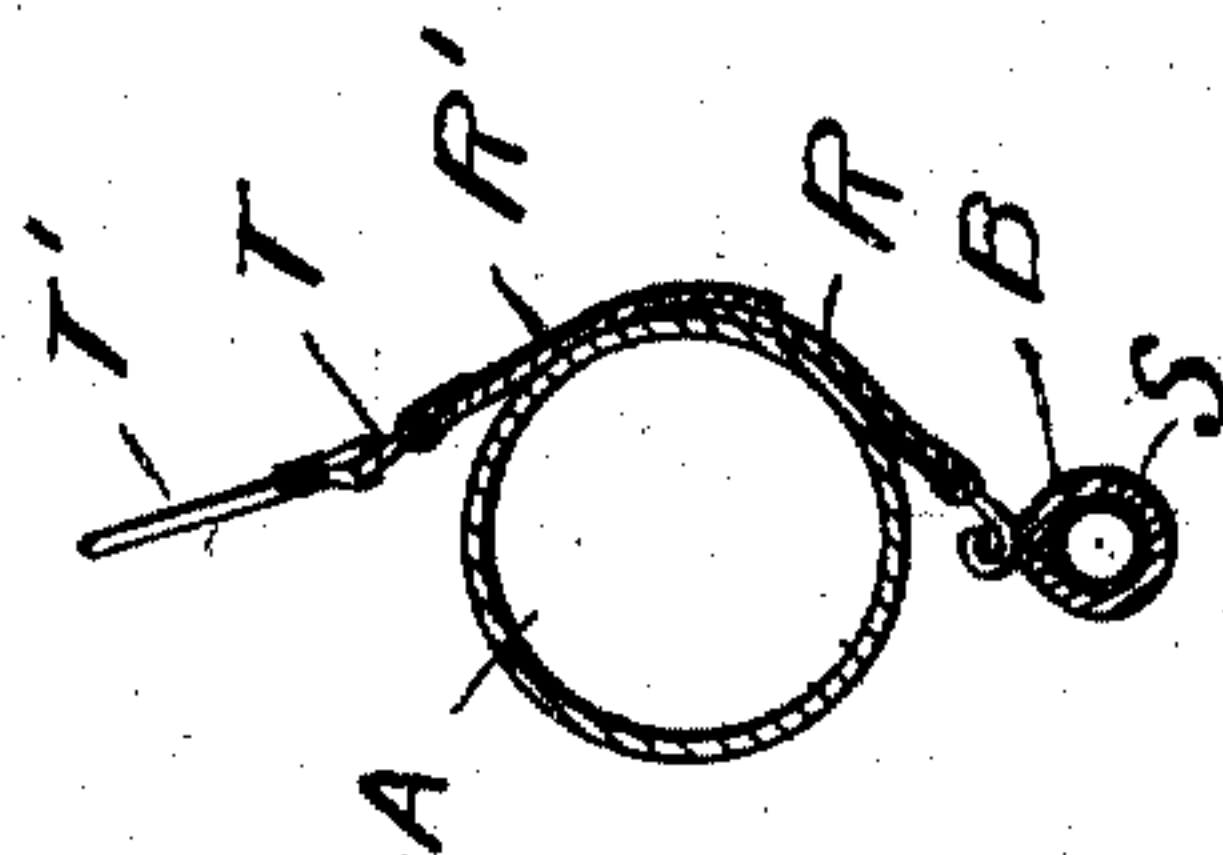
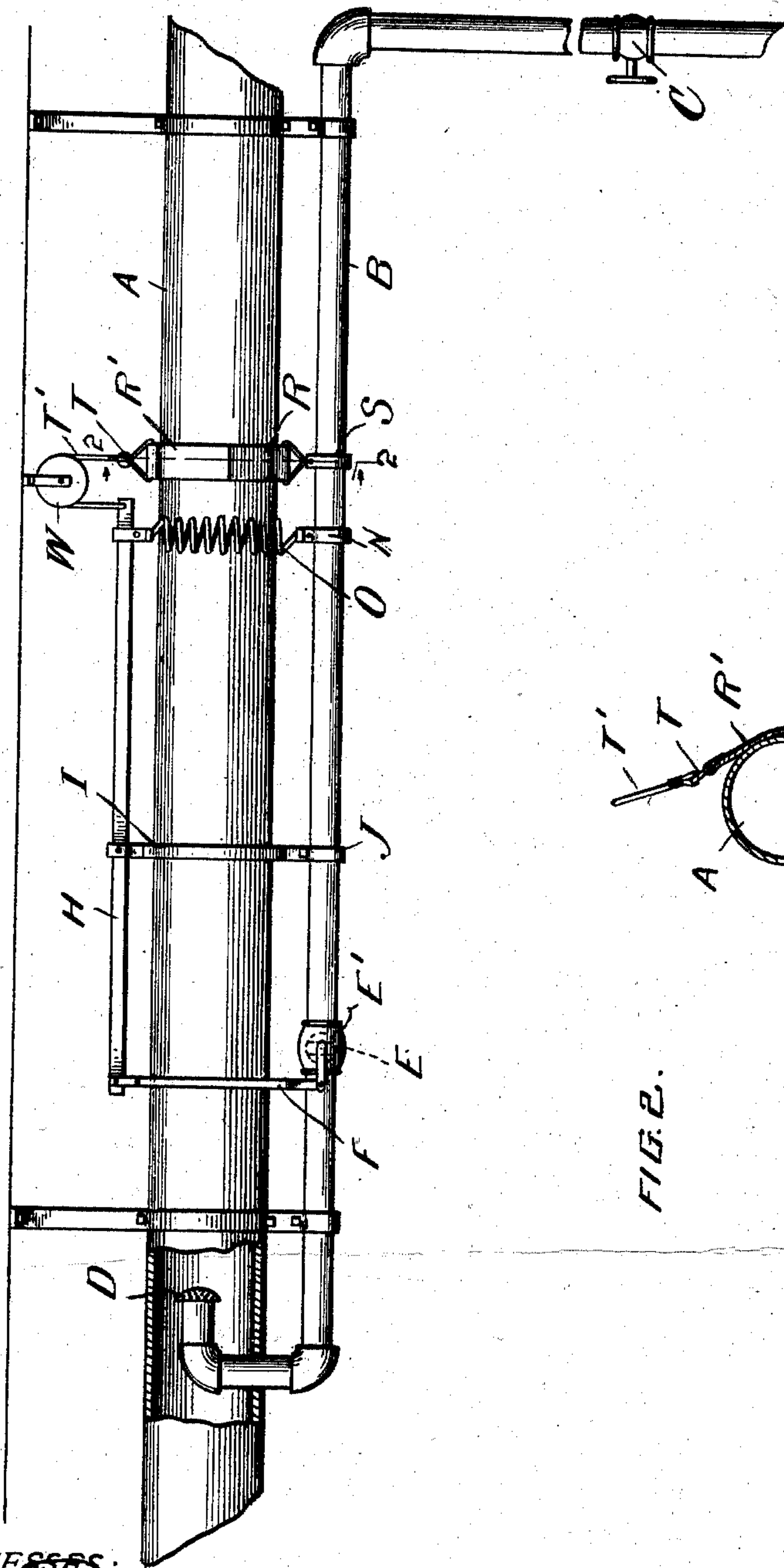


FIG. 2.

WITNESSES:

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FIRE-EXTINGUISHING APPARATUS.

966,985.

Specification of Letters Patent.

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To all whom it may concern:

Be it known that I, JAMES W. BABB, a citizen of the United States, residing at New London, in the county of Waupaca and State of Wisconsin, have invented certain new and useful Improvements in Fire-Extinguishing Apparatus; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same, reference being had to the accompanying drawings, and to the letters and figures of reference marked thereon, which form a part of this specification.

This invention relates to new and useful improvements in automatically operated fire extinguishing apparatus designed especially for use in connection with blower pipes through which shavings, saw dust, etc., are drawn by suction.

The invention comprises various details of construction and combinations and arrangements of parts which will be hereinafter fully described and then specifically defined in the appended claims.

I illustrate my invention in the accompanying drawings, in which:—

Figure 1 is a side elevation showing the application of my invention, partly in section, and Fig. 2 is a cross sectional view on line 2—2 of Fig. 1.

Reference now being had to the details of the drawings by letter, A designates a blower pipe adapted to convey shavings and other combustible material by suction force.

B is a pipe adapted to be connected to a steam boiler and has a valve C in said pipe, whereby the supply of steam may be allowed to pass through the pipe and make exit from the nozzle end D of the pipe which is positioned within the conveyer, as shown clearly in Fig. 1 of the drawings. A valve, designated by letter E, is positioned in a valve chamber E' connected to said pipe and through which the passageway leading from the boiler to the interior of the blower pipe leads. A stem F of said valve is pivotally connected to a tilting lever H mounted upon the standard I, the lower end of which is fastened by means of a ring J to the pipe B. Fastened to a ring N also passing about the pipe B is a coiled spring O, the upper end of which is fastened to the lever H at any suitable location, the office of which spring

is to normally draw the lever H toward the pipe B to cause the valve E to unseat.

R and R' designate two pieces of metal, preferably of tin, to the former of which is fastened a ring S which passes about the pipe B, thus forming an anchorage means for holding the plate or strip R. The other piece of metal R' has an eye T at one end to which a wire rope T' is fastened and which passes over a pulley W depending from any suitable object and its other end is fastened to the end of the lever H. The two adjacent ends of the pieces of metal R and R' overlap each other and are fastened together by means of a solder fusible at a comparatively low degree of heat. Said strips R pass about the blower pipe and in contact therewith so that, in the event of any fire generating within the blower pipe, it will have a tendency to raise the temperature of the blower pipe sufficiently to cause the solder to melt and the two pieces of metal R and R' to separate, in which event the spring O would pull down one end of the lever H and cause the valve E to unseat and allow steam to spray through the nozzle into the blower pipe.

What I claim to be new is:—

1. An automatic fire extinguishing apparatus comprising, in combination with a blower pipe, a steam supply pipe leading to and communicating with the interior of the blower pipe, a valve regulating the passage of steam through the steam supply pipe, a stem to said valve, a standard mounted upon the steam supply pipe, a lever pivotally mounted upon said standard and having pivotal connections with said stem, a spring normally under tension fastened at one end to said lever and the other to the steam supply pipe, metallic strips having fusible solder connection, and one of said strips being fastened to the steam supply pipe and the other to said lever said spring adapted, as the solder is fused, to actuate the lever to open said valve.

2. An automatic fire extinguishing apparatus comprising, in combination with a blower pipe, a steam supply pipe leading to and communicating with the interior of the blower pipe, a valve regulating the passage of steam through the steam supply pipe, a stem to said valve, a standard mounted upon the steam supply pipe, a lever pivotally mounted upon said standard and having

pivotal connections with said stem, a spring normally under tension fastened at one end to said lever and the other to the steam supply pipe, a metallic strip, a ring secured thereto and passing about the steam supply pipe, a second metallic strip overlapping the first referred to metallic strip and fastened thereto by a fusible solder, and connections between said metallic strips and said lever said spring adapted, as the solder is fused, to actuate the lever to open said valve.

3. An automatic fire extinguishing apparatus comprising, in combination with a blower pipe, a steam supply pipe leading to and communicating with the interior of the blower pipe, a valve regulating the passage of steam through the steam supply pipe, a stem to said valve, a standard mounted upon the steam supply pipe, a lever pivotally

mounted upon said standard and having pivotal connections with said stem, a spring fastened at one end to said lever and the other to the steam supply pipe, a metallic strip, a ring secured thereto and passing about the steam supply pipe, a second metallic strip overlapping the first referred to metallic strip and fastened thereto by a fusible solder, an eye upon one of the latter, a rope secured to said eye and passing about said pulley and connected to the end of said lever.

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

JAMES W. BABB.

Witnesses:

H. HAMBLIN,
E. W. WENDLANDT.