

F. JACKSON.
PLUG.

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1,411,031.

Patented Mar. 28, 1922.

Fig. 1.

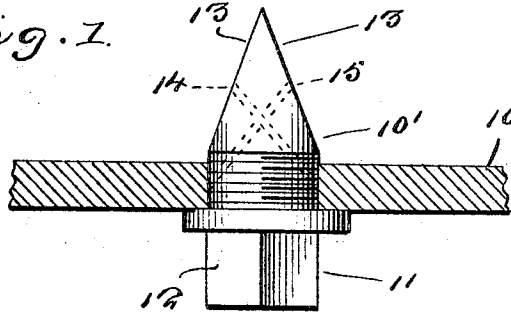


Fig. 2.

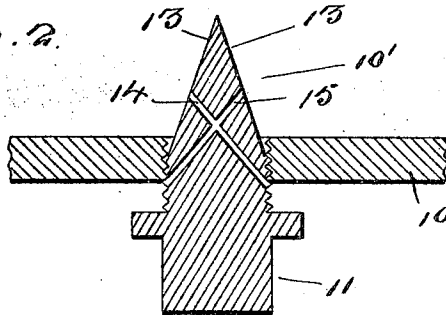
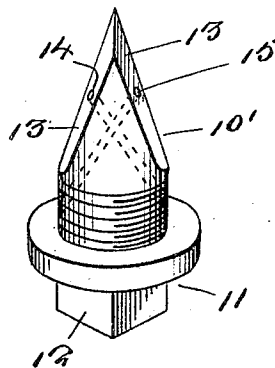


Fig. 3.



E. R. Ruppert.
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WITNESS:

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UNITED STATES PATENT OFFICE.

FRANK JACKSON, OF PARSONS, KANSAS.

PLUG.

1,411,031.

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Application filed February 7, 1921. Serial No. 443,118.

To all whom it may concern:

Be it known that I, FRANK JACKSON, a citizen of the United States, residing at Parsons, in the county of Labette and State of Kansas, have invented new and useful Improvements in Plugs, of which the following is a specification.

This invention comprehends the provision of a plug primarily intended for use in closing the drain opening of a boiler, and designed so as to eliminate the danger of the plug from being blown from the opening when removing the plug.

In carrying out the invention the plug is tapered to provide two opposed surfaces and is provided with intersecting bores opening at the opposed sides of the plug through which the steam passes in a manner to encircle the bevelled portions of the plug and thus prevent the plug from being forcibly ejected from the opening while it is being removed incident to steam pressure, and frequently results in injury to the workmen.

The nature and advantages of the invention will be better understood when the following detail description is read in connection with the accompanying drawing, the invention residing in the combination, construction and arrangement of parts as claimed.

In the drawing forming part of this application, like numerals of reference indicate similar parts in the several views and wherein:

Figure 1 is a sectional view through a boiler showing the normal position of the plug.

Figure 2 is a view showing the plug partly removed.

Figure 3 is a detail view of the plug.

Referring to the drawing in detail, 10 indicates a boiler wherein the drain opening is closed by the plug forming the subject matter of my invention. This plug includes a shank 10', with which is associated a head 11, the head being formed with an angular

extension 12 to permit the use of a tool when removing the plug. The shank 10' is tapered to provide two opposed inclined surfaces 13, while the shank at the rear of the tapered portion is provided with bores 14 and 15 respectively which open at opposite sides of the plug, these bores being intersecting as shown. By reason of this construction the steam is forced through the bores 14 and 15 in a manner to encircle the bevelled portion of the shank, thereby making it possible to remove the plug when desired without any danger of the plug being forcibly blown from the boiler with possible injury to the workmen.

While it is believed that from the foregoing description the nature and advantages of the invention will be readily apparent, I desire to have it understood that I do not limit myself to what is herein shown and described, and that such changes may be resorted to when desired, as fall within the scope of what is claimed.

What I claim is:

1. A plug of the character described comprising a head and a shank, said shank being bevelled to provide opposed inclined surfaces, and said shank having bores opening at opposite sides of the plug for the purpose specified.

2. A plug of the character described comprising a head and a shank, an angular shaped portion formed on said head, said shank being bevelled to provide opposed inclined surfaces, and said shank having bores opening at opposite sides thereof for the purpose specified.

3. A plug of the character described comprising a head and a shank bevelled at one end to provide opposed inclined surfaces, and said shank having intersecting bores opening at opposite sides of the plug for the purpose specified.

In testimony whereof I affix my signature.

FRANK JACKSON.