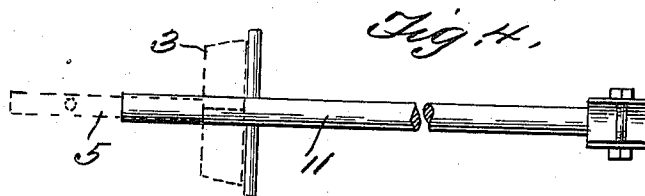
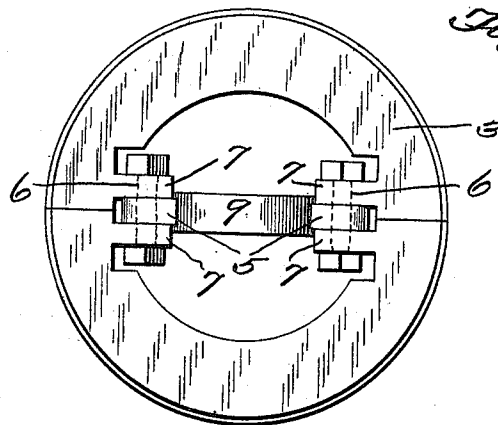
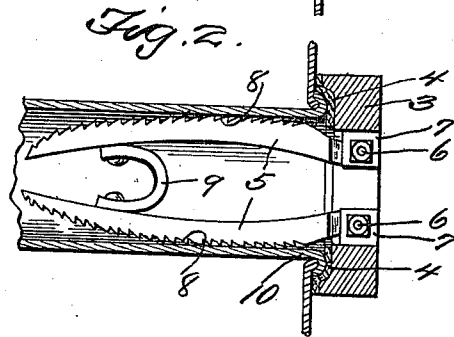
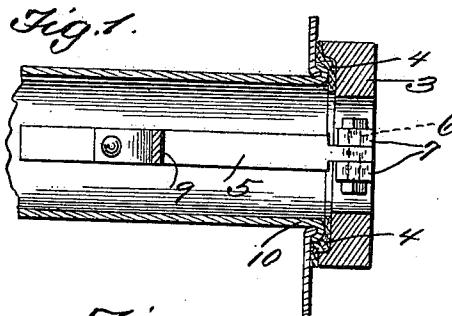


W. F. PETERS.  
FLUE PLUG.  
APPLICATION FILED JUNE 30, 1910.

974,819.

Patented Nov. 8, 1910.



Witnesses

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# UNITED STATES PATENT OFFICE.

WILLIAM F. PETERS, OF WAVERLY, NEW YORK.

## FLUE-PLUG.

974,819.

Specification of Letters Patent.

Patented Nov. 8, 1910.

Application filed June 30, 1910. Serial No. 569,789.

*To all whom it may concern:*

Be it known that I, WILLIAM F. PETERS, a citizen of the United States, residing at Waverly, in the county of Tioga and State of New York, have invented a new and useful Flue-Plug; 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.

The invention relates to a flue plug and has for its object to provide an improved device of this character especially adapted for plugging flues of locomotives when they begin to leak, but of course it will be seen that this device may be applied also to stationary engines.

One of the objects of the invention is to provide an efficient flue plug that can be readily and effectively applied to a leaking flue and stop the leakage without closing the flue.

With these and other objects in view, the invention consists in the novel construction and arrangement of parts hereinafter described and shown and particularly pointed out in the claims.

In the drawings forming a part of this specification, Figure 1 is a longitudinal sectional view through a portion of a flue showing my plug applied thereto. Fig. 2 is a longitudinal sectional view taken at right angles to Fig. 1. Fig. 3 is an end view. Fig. 4 is a plan view of an ordinary rake handle which can be used for inserting the plug in a leaking flue.

Referring to the drawings, 3 designates a packing ring, which is made of metal and is provided with a lining of asbestos on the inner side of the packing ring, where the same is pressed against the leaking flue. The asbestos 4 serves to aid in the effectiveness of the packing ring by stopping those leaks which might not be cured by the metallic ring. The packing ring 3 is provided with arms 5, which are disposed opposite to each other and are mounted on pivot rods

6, which extend through a pair of ears 7 and the outer ends of said arms.

The arms 5 are provided with teeth or serrations 8 on their outer faces. The arms 5 are pressed outwardly from each other by means of a spring 9, which is connected with each arm, as clearly shown in the drawings. When the flue 10 springs a leak, the arms 5 are inserted in the flue and forced inwardly by the rack handle 11, until the packing ring presses against the leak. Then the spring 9, by pressing the arms in opposite directions, forces the teeth or serrations 8 against the wall of the flue, thereby preventing displacement of the flue plug.

Having thus described the invention, what I claim is:—

1. In an open end packing ring for flues, a pair of arms pivoted to said ring, a U-shaped spring connected to each of said arms for pressing the same in opposite directions, and means carried by said arms for preventing displacement of the same when inserted in a flue.

2. A packing ring for flues having an opening communicating with the interior of said flue, arms pivotally connected with said ring and adapted to engage the walls of said flue, and a spring connected with each of said arms for pressing the same in opposite directions.

3. A packing ring for flues having an opening communicating with the interior of said flue, arms pivotally connected to said ring, a spring disposed between said arms and adapted to press the same in opposite directions, the free ends of said arms being so constructed as to converge, for facilitating their insertion in the flue.

In testimony whereof I have signed my name to this specification in the presence of two subscribing witnesses.

WILLIAM F. PETERS.

Witnesses:

WALTER PETERS,  
HELENA DECKER.