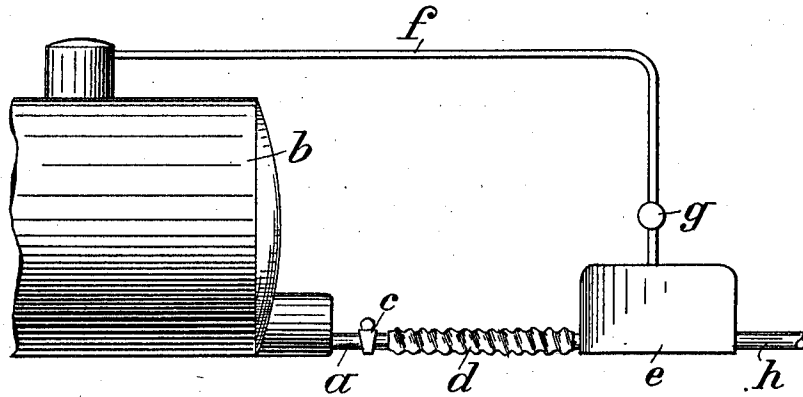


A. FONÓ.
 APPARATUS FOR BLOWING OFF BOILER MUD.
 APPLICATION FILED FEB. 10, 1911.

1,004,403.

Patented Sept. 26, 1911.



Witnesses.
 E. C. Schuermann.
[Signature]

Inventor.
Albert Fonó
 by *Lemie Goldbrough Mill*
Attys

UNITED STATES PATENT OFFICE.

ALBERT FONÓ, OF BUDAPEST, AUSTRIA-HUNGARY.

APPARATUS FOR BLOWING OFF BOILER-MUD.

1,004,403.

Specification of Letters Patent. Patented Sept. 26, 1911.

Application filed February 10, 1911. Serial No. 607,774.

To all whom it may concern:

Be it known that I, ALBERT FONÓ, a subject of the King of Hungary, residing at 17 Bathorz-utca, Budapest, in the Empire of Austria-Hungary, have invented certain new and useful Improvements in Apparatus for Blowing Off Boiler-Mud, of which the following is a specification.

The blowing-off of boiler mud or slime at full working pressure is ordinarily a cause of harmful shocks to the boiler.

The present invention has for its object an apparatus which permits of blowing-off the boiler slime at full working pressure without causing such shocks. In order to produce this result, a chamber is inserted in the blow-off pipe in which chamber a somewhat lower pressure than boiler pressure is maintained and which is connected with the boiler itself by means of a flexible conduit which does not transmit the shocks as will hereinafter appear.

An embodiment of the invention is illustrated diagrammatically in the accompanying drawing.

The blow-off pipe *a* proceeds from the boiler *b* and can be shut off by a cock *c*. A yielding pipe *d* which does not transmit shocks is fitted to the pipe *a* or directly to the boiler and connects the boiler with a chamber *e*. In this chamber a pressure somewhat lower than the boiler pressure (say

one-tenth of an atmosphere lower) is maintained for example by a throttle valve *g* being inserted in a pipe *f* proceeding from the steam chamber of the boiler, this valve throttling to the desired extent the steam introduced into the chamber *e*. The blow-off pipe is continued by the pipe *h*. In the chamber *e* the water level is maintained constant in order to avoid the direct discharge of live steam; thereby keeping the difference of pressure between the boiler *b* and the chamber *e* constant. The fall of pressure between the boiler *b* and the chamber *e* is so small that it cannot cause any shock to the boiler. The chamber *e* experiences the shocks.

What I claim and desire to secure by Letters Patent of the United States is:—

Apparatus for blowing-off boiler mud or slime at full working pressure characterized by the fact that a chamber *e* is inserted in the blow-off pipe in which chamber a pressure somewhat lower than the boiler pressure is maintained and which is connected with the boiler by means of a yielding pipe *d*.

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

ALBERT FONÓ.

Witnesses:

JOSEPH WIEKMANN,
ROBERT BÉRIN.

Copies of this patent may be obtained for five cents each, by addressing the "Commissioner of Patents, Washington, D. C."