

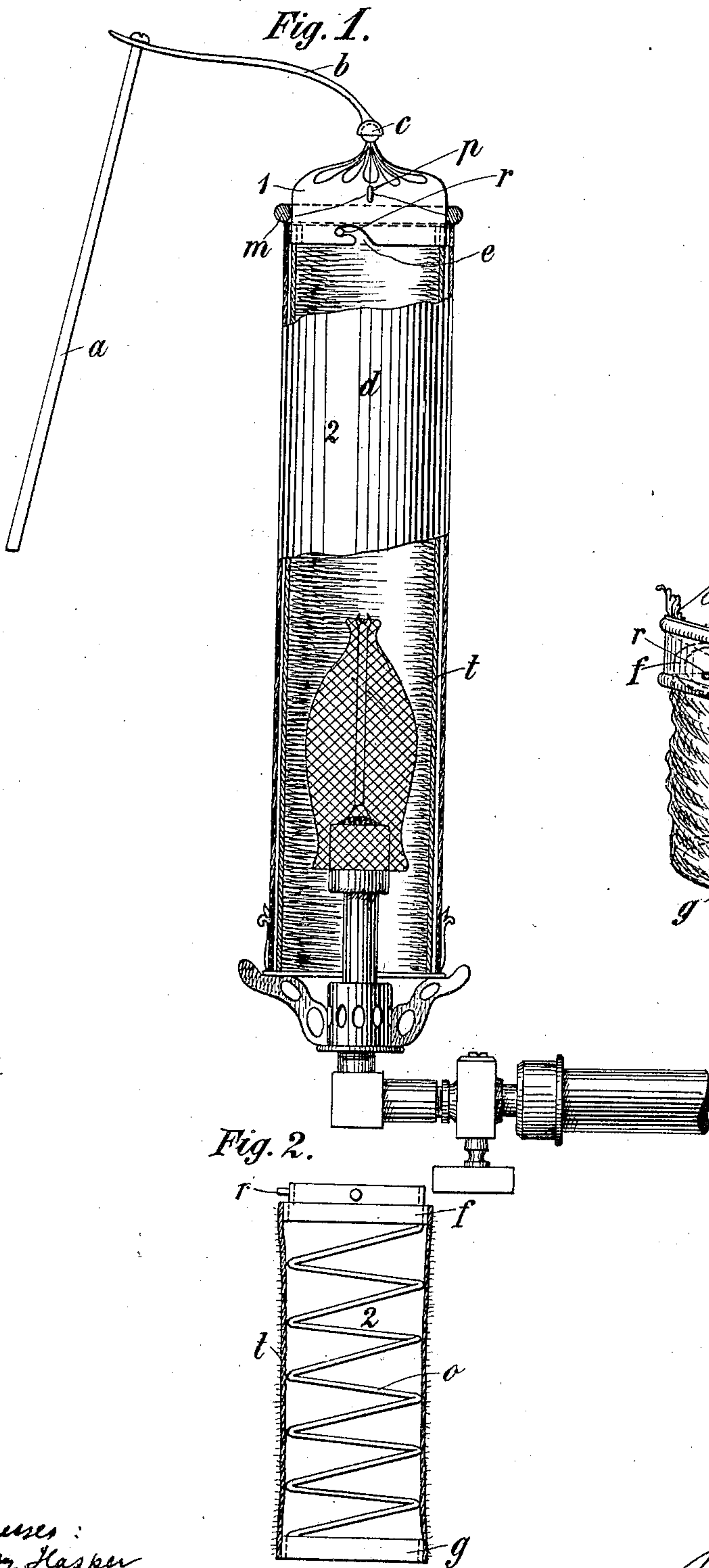
No. 688,056.

Patented Dec. 3, 1901.

W. BOEHM.  
SELF ACTING IGNITING DEVICE.

(Application filed Feb. 23, 1901.)

(No Model.)



Witnesses:  
Henry Hasper  
Walter Kaupt

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# UNITED STATES PATENT OFFICE.

WILHELM BOEHM, OF BERLIN, GERMANY, ASSIGNOR TO GEORGE A. WEISS,  
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## SELF-ACTING IGNITING DEVICE.

SPECIFICATION forming part of Letters Patent No. 688,056, dated December 3, 1901.

Application filed February 23, 1901. Serial No. 48,457. (No model.)

*To all whom it may concern:*

Be it known that I, WILHELM BOEHM, chemist, a subject of the King of Prussia, Emperor of Germany, residing at 74 Rathenowerstrasse, in the city of Berlin, Kingdom of Prussia, German Empire, have invented certain new and useful Improvements in Self-Acting Gas-Igniting Devices, of which the following is a specification.

10 This invention has reference to self-acting gas-ignition devices which cause the ignition of gas through the medium of an igniter of æthiops of metals of the platinum group, and it especially refers to a new way of support-  
15 ing the device and centering such igniter whereby the gas is made to strike the igniter more directly and the adaptability of the device is evidently greatly increased as compared with devices of this kind employed  
20 heretofore.

On the accompanying drawings I have shown my invention in a preferred form of construction in vertical longitudinal section.

Figure 1 shows the device in position in  
25 the lamp-chimney, and Fig. 2 shows a form of construction of the chimney-cleaner. Fig. 3 is a somewhat-modified form of construction of the apparatus.

The whole device is attached to a handle *a*,  
30 the free end *b* of which is suitably linked, preferably by a ball-and-socket-joint connection *c*, to a tubular-shaped perforated casing *d* of any desired section and the lower part of which in the preferred form of construction shown in the figures is of such diameter  
35 as to fit into the lamp-chimney. The tubular-shaped body *d* is preferably made in two sections 1 and 2, which are connected at *e* by a bayonet-joint *r* or in any other convenient  
40 manner. The igniter proper, *p*, is fixed to or suspended from the apex of the tubular body, the upper part of which is surrounded by an exterior ring *m* of suitable material, which  
45 serves as a support and for centering the device in the right position upon the chimney. By the outer ring I am also enabled to securely guide the apparatus and to also insure  
50 the proper height above the chimney.

The chimney-cleaner, Fig. 2, is preferably

constructed so as to be folded up when not in use. With this end in view it consists of two rings *f g*, which are united together by a spiral spring *o* of cylindrical cross-section, 55 which is covered with a suitable pliable tubular-shaped covering material *t*, Fig. 2, and which is attached to the device by a bayonet-joint *r* or by equivalent means. It is evident that by the use of the said spiral spring, 60 which necessarily fits closely to the sides of the lamp-chimney when extended on account of its elastic properties, the chimney can be cleaned without damaging the delicate light mantle, such as the extensively-used delicate 65 Welsbach-light mantle or, as a matter of fact, any other light mantle. I may also increase the diameter of the chimney-cleaner so as to make it fit over the chimney for the purpose of cleaning the outside of the same, the de- 70 vice remaining otherwise unchanged.

It is obvious that my device is a great improvement over self-acting gas-igniting devices as heretofore in use inasmuch as it secures the central position of the igniter, and 75 I am also enabled to combine the ignition of the gas with the cleaning of the chimney, if so desired.

In Fig. 3 I have shown a somewhat-modified form of the perforated casing surrounding the igniter. The said casing is here given 80 the shape of a renaissance lantern; but it is obvious that my invention is not limited to any particular shape of any part of the casing, which, in fact, may assume any fancy 85 configuration and shape desired, the essential feature of my invention consisting in the use of the lamp-chimney as a support for the device and as a means to secure the right position of the igniter. 90

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

1. In a self-acting igniting device provided with an igniter made from æthiops of metals of the platinum group, a perforated casing 95 surrounding said igniter and consisting of two parts of unequal length and unequal diameter, the shorter part being broader and serving for the attachment of a suitable handle and for centering the igniter on top of the 100 lamp-chimney, while the longer part acts as a guide in the lamp-chimney and means for



attaching the said parts to each other, substantially as described.

2. In a self-acting igniting device the combination with an igniter comprising æthiops  
5 of metals of the platinum group, of a tubular-shaped perforated casing of any desired section surrounding said igniter, and consisting of two parts of unequal length, the shorter part serving for the attachment of a suitable  
10 handle while the longer part serves as a guide within the lamp-chimney and as a means to center the shorter part on top of the lamp-chimney, substantially as described.

3. In a self-acting igniting device, provided  
15 with an igniter made from æthiops of metals of the platinum group, a perforated casing surrounding the igniter and made in two parts of unequal length, a ring of suitable material surrounding the shorter part of said casing and  
20 serving to increase the diameter thereof so as to center the igniter and support the shorter part of said casing on top of the lamp-chimney, while the longer part serves as a guide in the lamp-chimney and means for attaching  
25 the said parts of unequal length to each other, substantially as described.

4. A self-acting igniting device, comprising the combination with an igniter of metals of

the platinum group, of a tubular-shaped casing of any desired section and fitting into the  
30 lamp-chimney of the burner and jointed to a suitable handle, part of the said casing being foldable and being detachably connected to the body part of the device, and an exterior  
35 ring of suitable material, to support the device on the upper rim of the lamp-chimney, substantially as described.

5. In a self-acting igniting device provided with an igniter made from æthiops of metals of the platinum group, a perforated casing  
40 surrounding said igniter and consisting of two parts of unequal length and unequal diameter, the shorter part being broader and serving for the attachment of a suitable handle and for centering the igniter on top of the  
45 lamp-chimney, while the longer part acts as a guide in connection with the lamp-chimney and means for attaching the said parts to each other, substantially as described.

In witness whereof I have hereunto signed  
50 my name in the presence of two subscribing witnesses.

WILHELM BOEHM.

Witnesses:

HENRY HASPER,  
WOLDEMAR HAUPT.