

(No Model.)

C. BESELER.

OXYGEN GAS ATTACHMENT FOR GAS BURNERS.

No. 318,161.

Patented May 19, 1885.

Fig. 1.

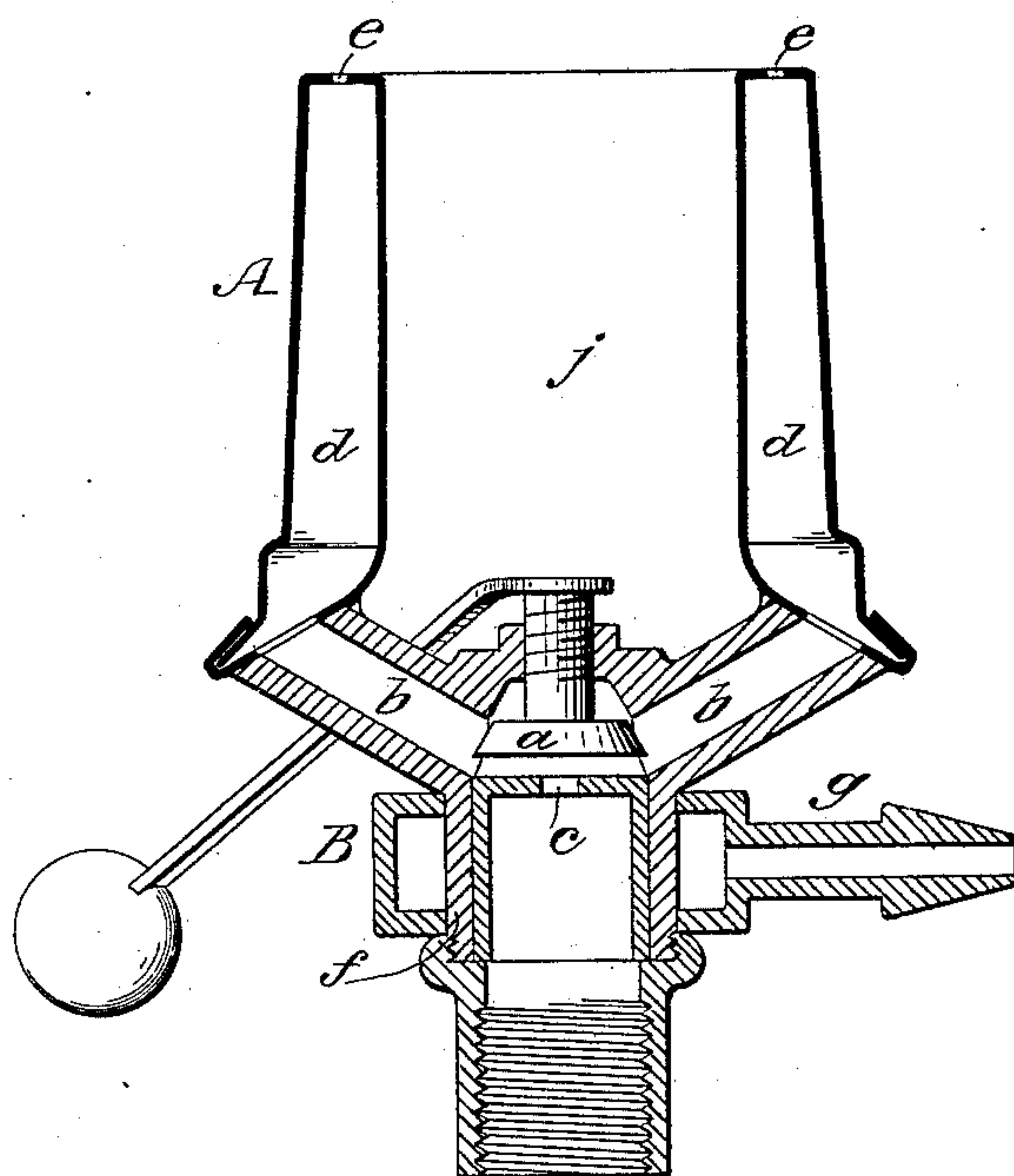
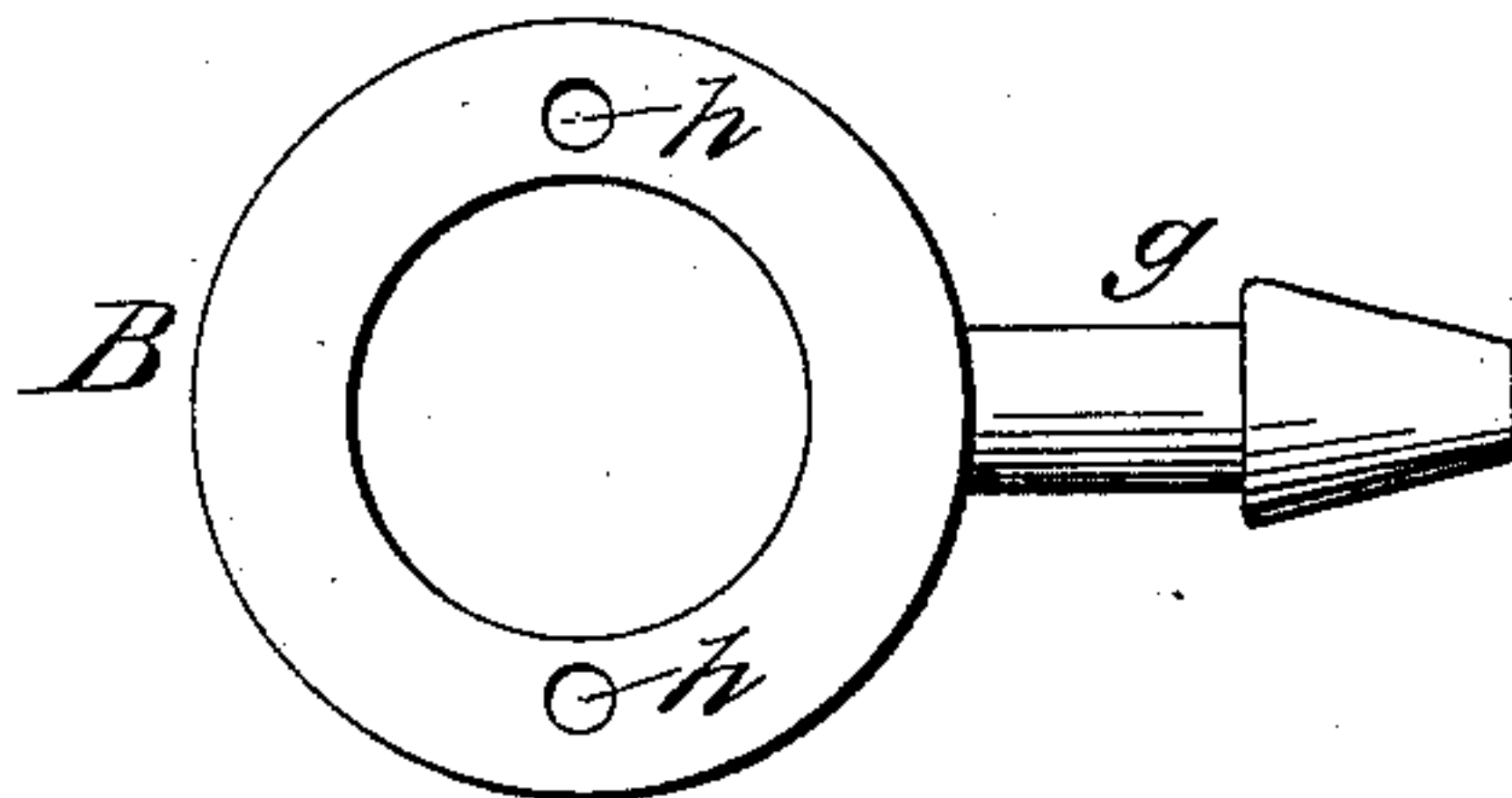


Fig. 2.



WITNESSES:

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OXYGEN-GAS ATTACHMENT FOR GAS-BURNERS.

SPECIFICATION forming part of Letters Patent No. 318,161, dated May 19, 1885.

Application filed April 5, 1884. (No model.)

To all whom it may concern:

Be it known that I, CHARLES BESELER, of the city, county, and State of New York, have invented a new and Improved Oxygen-Gas Attachment for Gas-Burners, of which the following is a full, clear, and exact description.

The object of this invention is to provide a device whereby oxygen-gas may be supplied to an ordinary gas-flame for producing a light of great brilliancy; and the invention consists of the construction and arrangement of parts, as will be hereinafter fully described and claimed.

Reference is to be had to the accompanying drawings, forming part of this specification, in which similar letters of reference indicate corresponding parts in both the figures.

Figure 1 is a sectional elevation of an Argand burner having my invention applied thereto, and Fig. 2 is a plan view of the oxygen receiver or chamber detached from the burner.

The burner A is the ordinary form of Argand gas-burner, having a valve, *a*, and side passages, *b b*, for leading the illuminating-gas from the gas-aperture *c* to the chamber *d*, from which the illuminating-gas issues through the perforations *e*, so that when the gas is turned on and lighted the well-known tubular flame is produced. Attached to the tubular shank *f* of the burner A is the chamber or receiver B for receiving and distributing the oxygen-gas. This receiver is provided with the nipple *g*, to which a pipe or tube is attached for supplying the gas from a suitable holder to the chamber or receiver B, and the upper wall of the chamber B has the apertures *h* made in it, through which the oxygen-gas issues in small streams or jets, and these apertures are so arranged that they direct the streams or jets of oxygen-gas up into the central space, *j*, of the burner A, so that, rising in this space,

the oxygen-gas will come in contact with the interior of tubular blaze produced by the burning illuminating-gas, and thus become ignited, making the light very brilliant.

I am aware that oxygen-gas has been conducted to the burner of a carburetor by a pipe that caused the stream of oxygen-gas to impinge on the oil at the burning-point, and such has no relation to my invention, and I claim no such combination.

I am also aware that a locomotive head-lamp has been provided with a pipe extending up through the circular central space between the walls of the wick-chamber. This pipe extended above the cone-reflector, and was there provided with a regulating device and a refractory disk, and I claim no such construction, but a simple and inexpensive attachment for ordinary Argand burners.

Having thus described my invention, I claim as new and desire to secure by Letters Patent—

1. The combination, with an ordinary Argand burner, A, of an oxygen-gas receiver connected to the same and having outlet-openings communicating with the space *j* below the circular series of openings *e*, substantially as set forth.

2. The combination, with the shank *f* of an ordinary Argand burner, of the chamber B, fitting thereon and provided with a nipple, *g*, and with openings *h* in its upper wall, substantially as set forth.

3. As a new article of manufacture, an oxygen-gas attachment for Argand burners, consisting of the chamber B, having a central aperture to fit over the shank of said burner, a nipple, *g*, and openings *h*, substantially as set forth.

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Witnesses:

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