

No. 880,615.

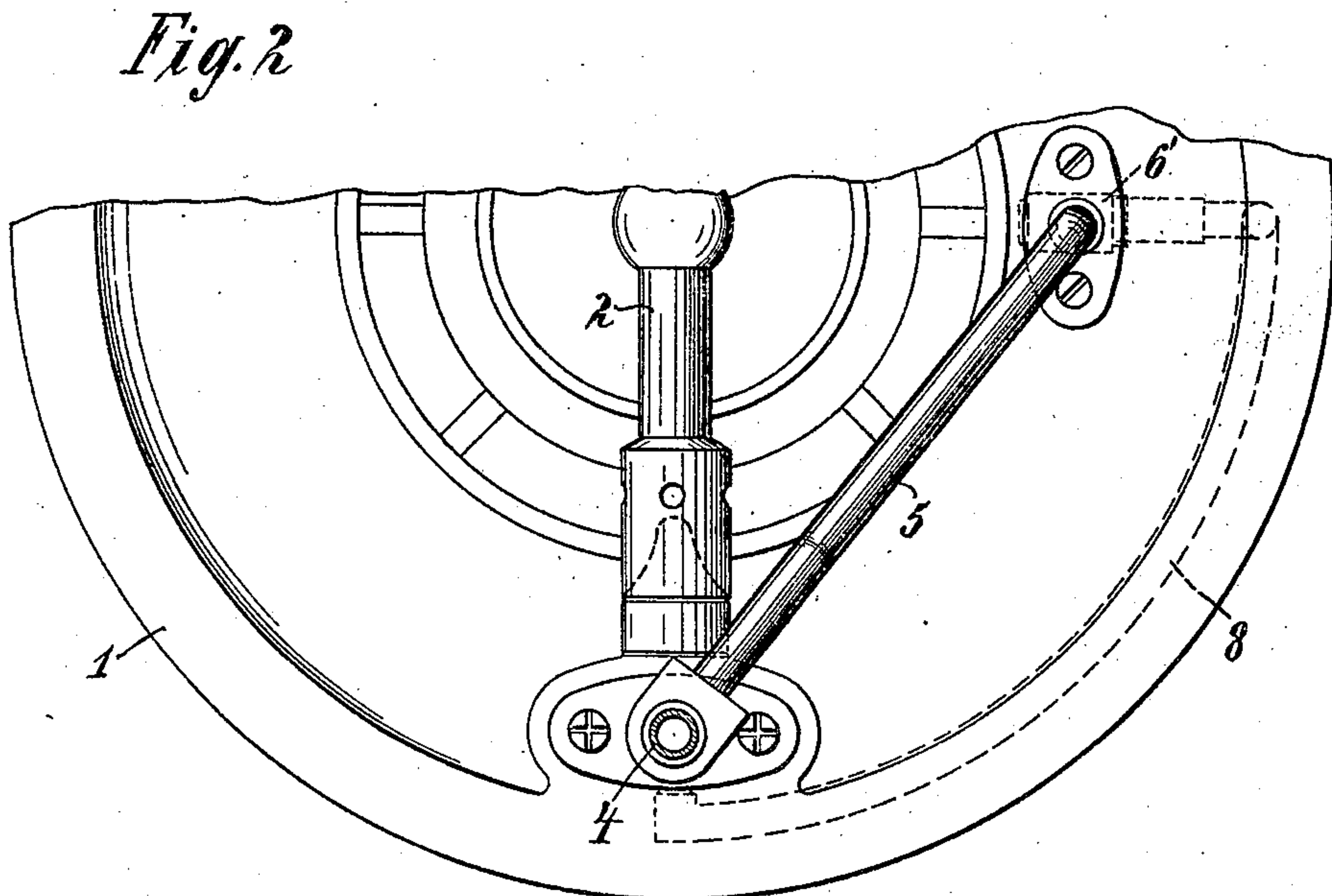
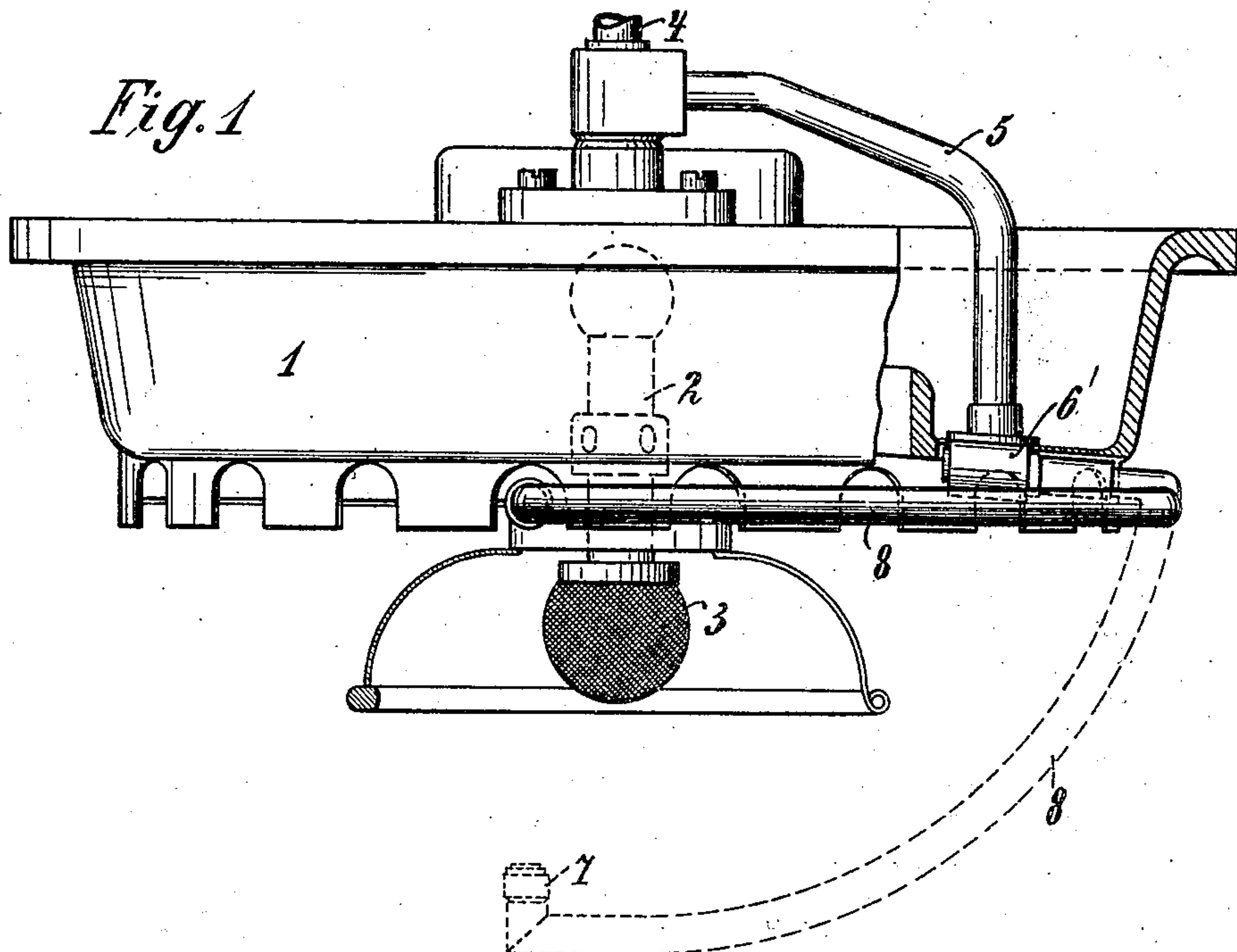
PATENTED MAR. 3, 1908.

A. WÜRKER.

INVERTED INCANDESCENT LAMP WITH EMERGENCY BURNER.

APPLICATION FILED APR. 17, 1906.

3 SHEETS—SHEET 1.



Witnesses:

Superintendent

Max Kirl

Inventor:
Arthur Würker:
by *Emil R. Hoppe*
Attorney

No. 880,615.

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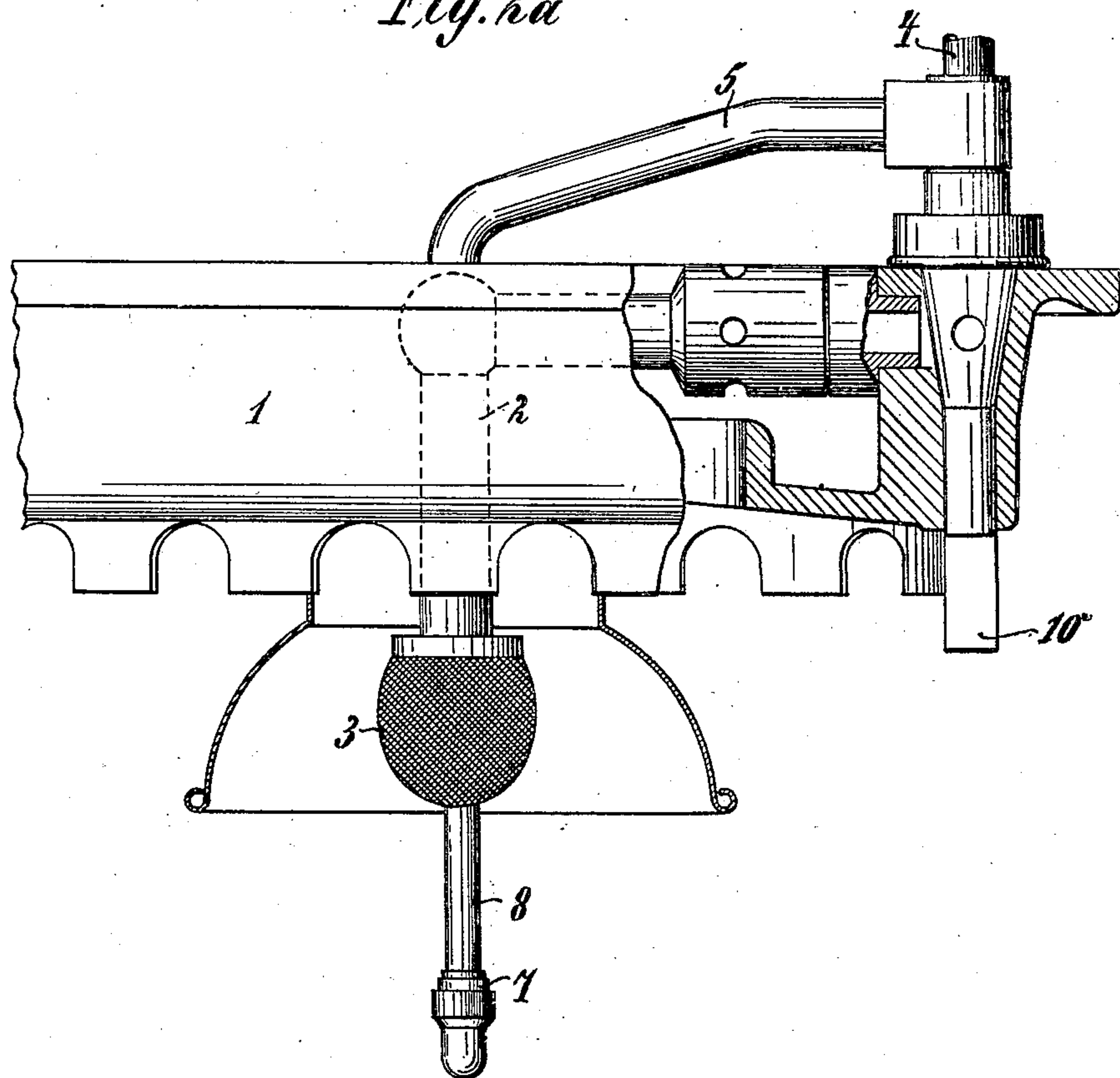
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3 SHEETS—SHEET 2.

Fig. 2a



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3 SHEETS—SHEET 3.

Fig. 3

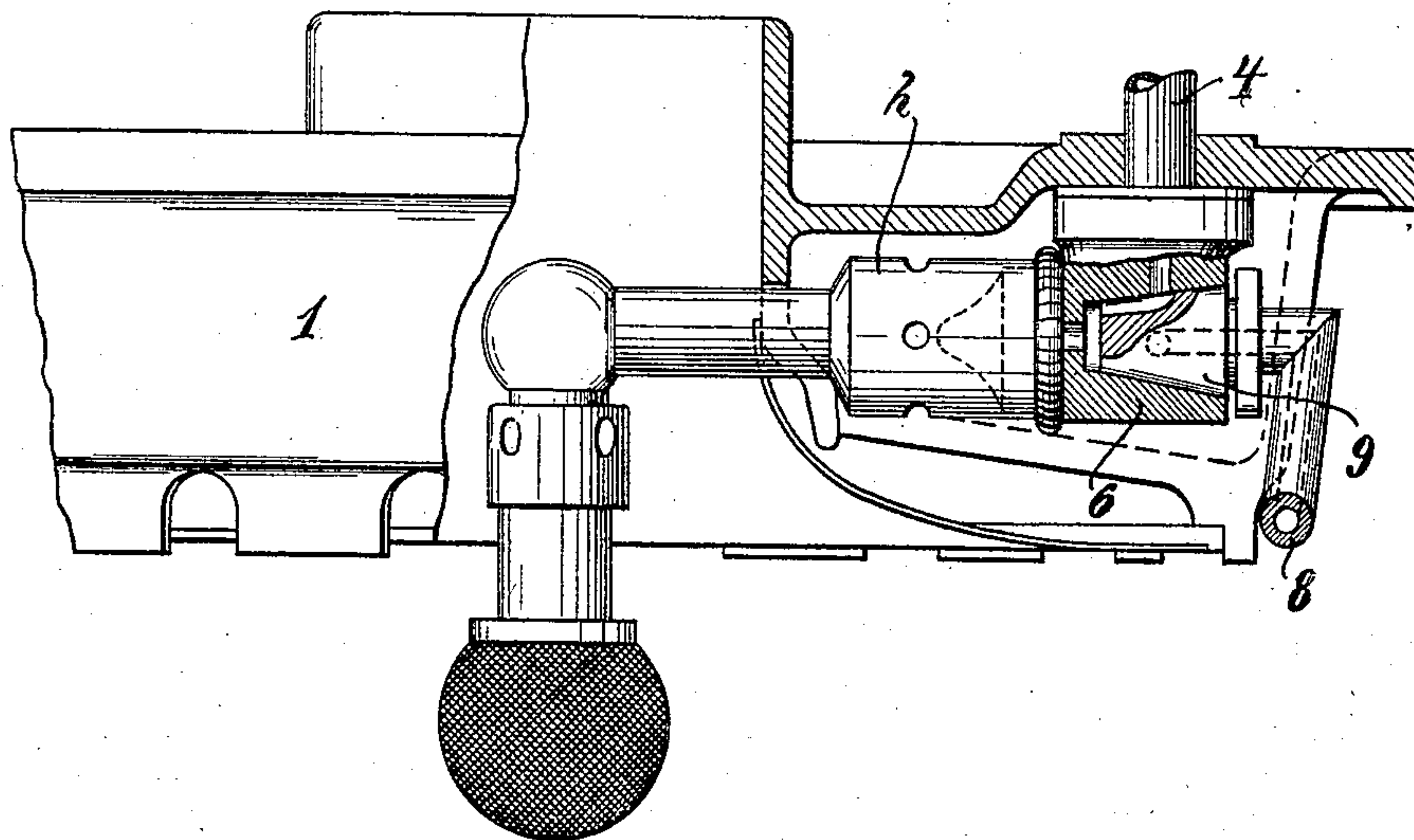
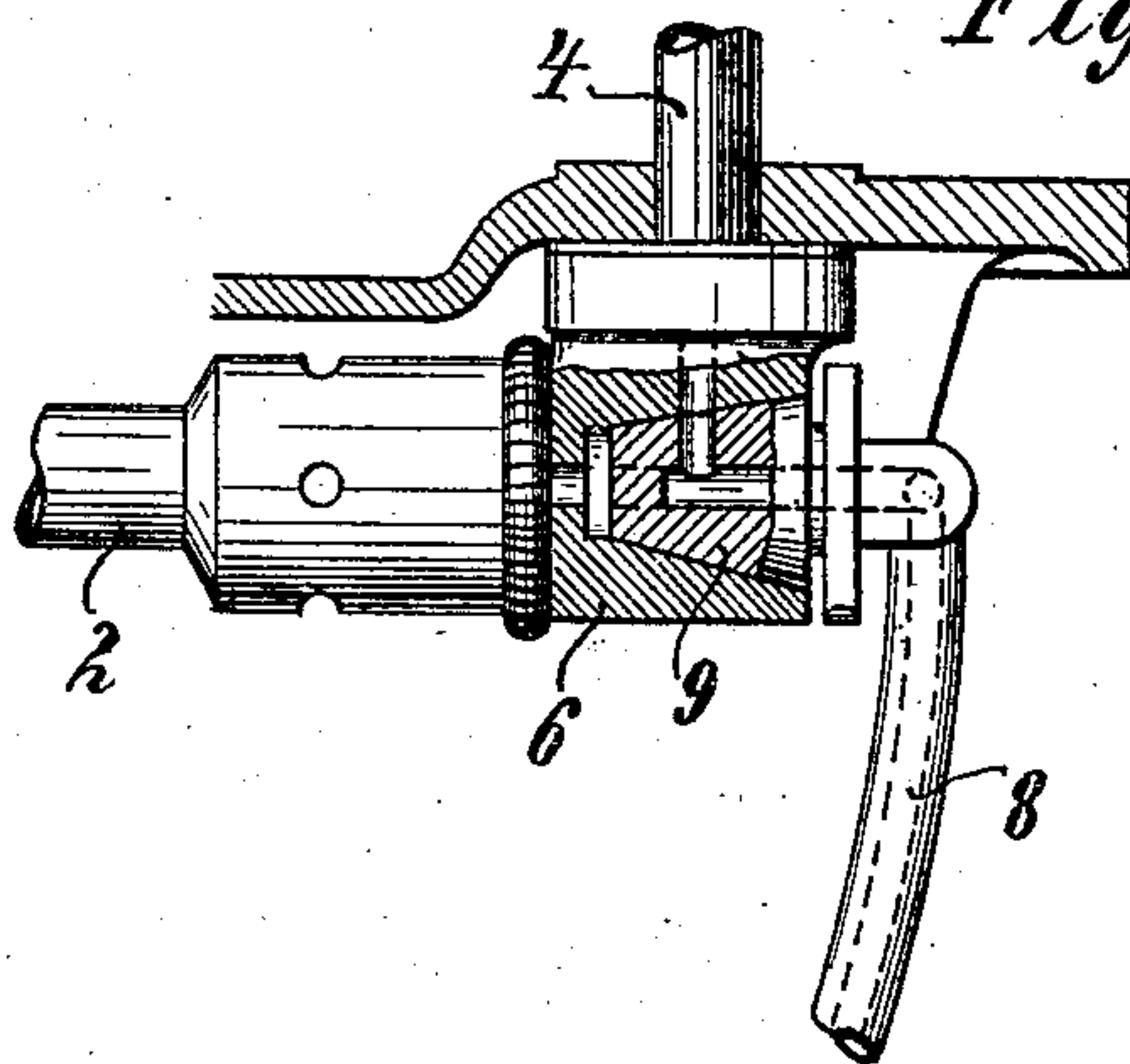


Fig. 4



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Arthur Würker
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UNITED STATES PATENT OFFICE.

ARTHUR WÜRKER, OF KARLSHORST, NEAR BERLIN, GERMANY, ASSIGNOR TO THE FIRM OF JULIUS PINTSCH, OF BERLIN, GERMANY.

INVERTED INCANDESCENT LAMP WITH EMERGENCY-BURNER.

No. 880,615.

Specification of Letters Patent.

Patented March 3, 1908.

Application filed April 17, 1905. Serial No. 256,065.

To all whom it may concern:

Be it known that I, ARTHUR WÜRKER, a citizen of the German Empire, residing at Karlsruhst, near Berlin, Germany, have invented a new and useful Improved Inverted Incandescent Lamp with Emergency-Burners, of which the following is a description.

The object of the present invention is to provide an improved incandescent lamp for illuminating railway or other cars, in which an emergency gas arm having a split or ordinary burner is arranged, in case of failure of the incandescent lamp.

In order to render the present specification easily intelligible reference is had to the accompanying drawing in which similar numerals of reference denote similar parts throughout the several views:—

Figure 1 is a side elevation partly in section and Fig. 2 a part plan of such parts of a car lamp as are necessary to the description of the invention. Fig. 2^a is a part sectional elevation showing the cock for turning off the gas to the main burner when the emergency burner is being used, and Figs. 3 and 4 are vertical part sections through the gas arm of a modified form of the invention, showing the gas cock or tap in two different positions.

1 is the frame or crown plate carrying the lamp in which the Bunsen burner 2 for the inverted incandescent lamp 3 is mounted in the usual manner and supplied with gas through a gas feed pipe 4. A branch pipe 5 extends from the pipe 4 to a housing 6 mounted in the frame of the lamp, and in this housing is pivoted the end of a pipe 8, the axis of the pivot being radially disposed as regards the axis of the lamp and the pipe 8 itself being curved to an arc having substantially the same radius as the lower rim of the frame or crown plate 1, so that when the arm is turned up it will lie against the crown plate as shown in dotted lines in Fig. 2 and will not in any way spoil or disfigure the appearance of the lamp. The free end of the arm 8 is provided with an ordinary split or other burner 7. Should the incandescent gas lamp fail or become defective for any reason, it is simply necessary to turn down the arm 8 into the position shown in dotted lines in Fig. 1, the gas feed to the Bunsen burner is then cut off by closing the ordinary gas tap used for the purpose and the arm 8, which may be provided with an

ordinary gas cock is turned down and the cock turned on after which the burner 7 may be ignited so that the incandescent lamp may be easily and conveniently replaced by the emergency burner. As will be seen from Fig. 2^a of the drawings, the gas to the main burner may be turned off by means of a cock 10, when the emergency burner is required, operated by a key of the known construction.

The above described device is modified in Figs. 3 and 4, in which case the gas feed pipe 4 leads into the housing 6 to which the burner pipe 2 is fitted and the pivoted end of the arm 8 is in this case adapted to form the plug 9 of a cock. The plug and housing are so constructed that when the arm 8 is turned up or out of use, the gas feed to the Bunsen burner from the feed pipe 4 will be open and the supply to the arm 8 cut off as clearly shown in Fig. 3, while when the emergency burner is required and the arm 8 turned down into its operative position, the gas supply to the Bunsen tube 2 will be cut off and that to the burner 7 through the arm 8 turned on (Fig. 4). As will be readily understood, the supply of gas to the burner in use, takes place automatically when the arm 8 is turned up or down.

If there is no gas supply, the arm 8 may serve to support a suitably constructed emergency oil lamp, so that the present construction may be adapted to serve three different lighting systems,—incandescent illumination, ordinary or split burner lighting and oil lamps.

I claim as my invention:—

1. In a lamp having a crown plate and an inverted incandescent burner, the combination of an emergency burner and an arm to carry the same hinged to the said crown plate and bent to conform to the outline of the said crown plate so as to fold up against the same when out of use.

2. In a lamp having a crown plate and an inverted incandescent burner, the combination of an emergency burner, an arm to carry the same curved substantially to the outline of the crown plate and means for supplying gas to the same, said arm being hinged to the crown plate and adapted to be turned up and lie against the same.

3. In a lamp having a crown plate and an inverted incandescent burner and means for supplying gas to the same, the combination

of an emergency burner, an arm to carry the same, said arm being curved substantially to the outline of the said crown plate and hinged thereto, so as to be turned up and lie against the same, means for supplying gas to the same and means for cutting off the gas supply to the incandescent burner when the said arm is turned down for use substantially as described.

10 4. In a lamp having a crown plate and an inverted incandescent burner, the combination of an emergency burner an arm to carry the same, said arm being curved to conform substantially to the outline of the crown

15 plate and hinged to the latter, so as to lie around the outer edge of the same when turned up, means for supplying gas to the incandescent and to the emergency burners and means to cut off the gas supply to the

20 incandescent burner and open the supply to

the emergency burner when the latter is turned down for use substantially as described.

5. In a lamp having a crown plate and an inverted incandescent burner, the combination of an emergency burner, an arm to carry the same, said arm being curved to conform substantially to the outline of the crown plate and hinged to the same so as to lie up against it when out of use, means for supplying gas to both burners and means for cutting off the gas supply to one burner when the other is in its operative position.

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

ARTHUR WÜRKER.

Witnesses:

WOLDEMAR HAUPT,
HENRY HASPER.