



# UNITED STATES PATENT OFFICE.

MAX SENSENSCHMIDT, OF FRANKFORT-ON-THE-MAIN, GERMANY.

APPARATUS FOR HARDENING INCANDESCENT BODIES FOR INCANDESCENT LIGHTS.

No. 879,202.

Specification of Letters Patent.

Patented Feb. 18, 1908.

Application filed March 12, 1906. Serial No. 305,660.

*To all whom it may concern:*

Be it known that I, MAX SENSENSCHMIDT, a subject of the German Emperor, residing at 44, Taunusstrasse, Frankfort-on-the-  
5 Main, in the Empire of Germany, have invented certain new and useful Apparatus for Hardening Incandescent Bodies for Incandescent Lights, of which the following is a specification.

10 The invention relates to a device by means of which the burners used for hardening incandescent bodies can be raised, maintained in any desired position, and lowered without being exposed to shock, the  
15 burners supports moreover being maintained in vertical alinement whereby loss in manufacture due to injury to the incinerated fabrics which are extremely sensitive to vibrations is entirely obviated.

20 Figure 1 of the accompanying drawings is a partial front view of the apparatus to which the invention relates, the portion to the right of the line A—B being symmetrical with that shown and Fig. 2 is a transverse  
25 section of a detail.

The motive force used is water under pressure, which possesses the necessary physical properties which are advantageous for actuating apparatus for hardening incan-  
30 descent bodies or any other liquid the use of which offers like advantages. This liquid before entering the pressure cylinder passes through the cock 1 which is provided with two apertures 2 and 3 arranged at right  
35 angles to each other, by means of which the cylinder 4 can be put in communication with

the inlet pipe 5 or the outlet pipe 6 by means of which the piston is raised or lowered. Moreover, by placing the plug of the cock 1 in its middle position the cylinder 4 can be  
40 completely closed and the portion 7 maintained at rest in any desired position. The piston 7 by means of the support 8 attached to the piston rod raises the burners 9 in such manner that they will at the end of their  
45 stroke be inside the incandescent bodies suspended from the hook 10. To prevent the burners from being laterally displaced guide wheels 11, which run over guides 12 are attached to the end of the supports 8. 50

What I claim as my invention and desire to secure by Letters Patent is:—

An apparatus for hardening incandescent bodies comprising in combination a rod supporting the burners, a piston rod to which  
55 said supporting rod is connected, a piston connected to said piston rod, a cylinder within which said piston moves, means for alternately admitting liquid above and below  
60 said piston for raising or lowering said burners and means for preventing lateral displacement of said burners comprising rollers attached to said supporting rod and guides over which said rollers move.

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

MAX SENSENSCHMIDT.

Witnesses:

CARL BURKMÜLLER,  
AUGUST RICHARD MÜLLER.