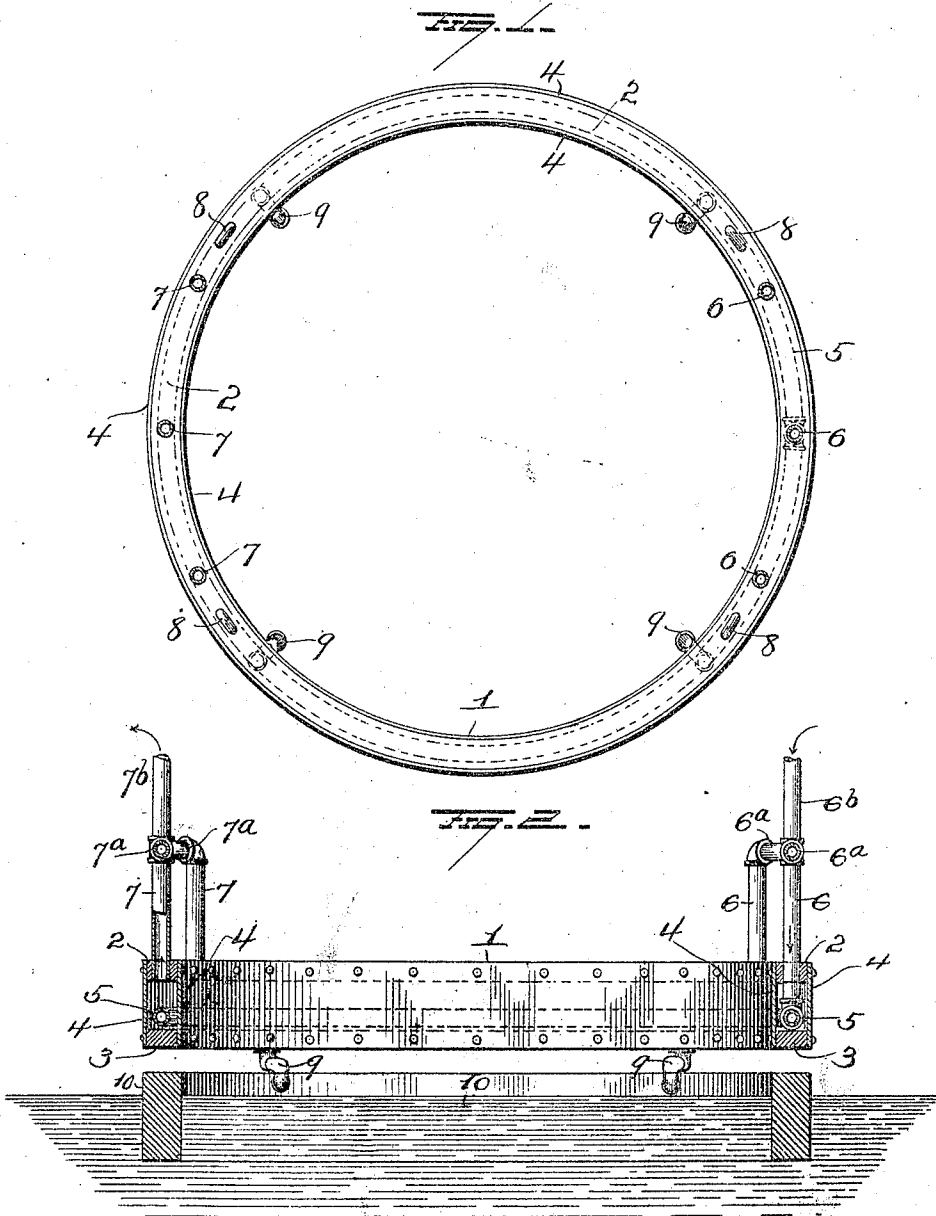


M. J. HEALY.
 RING SHIELD FOR GLASS DRAWING APPARATUS.
 APPLICATION FILED OCT. 18, 1911.

1,034,446.

Patented Aug. 6, 1912.



WITNESSES
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MACK J. HEALY, OF BRADFORD, PENNSYLVANIA.

RING-SHIELD FOR GLASS-DRAWING APPARATUS.

1,034,446.

Specification of Letters Patent.

Patented Aug. 6, 1912.

Application filed October 18, 1911. Serial No. 655,321.

To all whom it may concern:

Be it known that I, MACK J. HEALY, a citizen of the United States, residing at Bradford, in the county of McKean and State of Pennsylvania, have invented certain new and useful Improvements in Ring-Shields for Glass-Drawing Apparatus; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same.

My invention relates to an improvement in ring shields for glass drawing apparatus, and is designed particularly as an improvement on the construction disclosed in my pending application No. 648,371, filed September 8th, 1911.

In my pending application the ring shield is water cooled, and is constructed to engage either the inner or outer face of the floating ring at the top of the latter, and form an upward extension or continuation of the same.

The object of the present invention is to provide means depending at intervals from the ring shield, for engaging and centering the floating ring, whereby, when the parts are in operative position, there will be a space between the shield and floating ring, thus avoiding the cooling effect on the floating ring, that is produced by the contact therewith of a water cooled ring, and also permits sufficient heat to enter between the rings to fire polish the cylinder.

With these and other objects in view, my invention consists in a water cooled shield ring having a plurality of depending fingers adapted to engage and center the floating ring, and hold same in position under the drawing opening.

My invention further consists in certain details of construction of the ring shield as will be more fully explained and pointed out in the claims.

In the accompanying drawings, Figure 1 is a view in plan of the ring shield, and Fig. 2 is a view in section of the ring shield and floating ring.

1 represents the ring shield composed of two metal rings 2 and 3, and inner and outer plates 4 riveted or otherwise secured respectively to the inner and outer edges of said rings 2 and 3, thus forming a hollow cylindrical shield preferably rectangular in cross section, and of a size sufficient to shield

and protect the cylinder being drawn. Located within the ring shield 1 is the circular or endless pipe 5 which is perforated so as to discharge the water into the hollow ring shield, preferably connected with a plurality of water inlet pipes 6. A plurality of outlet pipes 7 communicate with the interior of the ring shield. The several inlet pipes 6 and outlet pipes 7 are widely separated so as to supply the necessary volume of cold water at different points, and to carry it off as fast as supplied and before it travels sufficiently far, or remains sufficiently long, to become highly heated. The several inlet pipes 6 are connected at their tops to a cross pipe 6^a which receives its supply from a single pipe 6^b, and the outlet pipes are similarly connected with a cross pipe 7^a communicating with a single outlet pipe 7^b. The ring 1 thus constructed, is provided with a series of eyebolts 8, projecting from its top to which the supporting and elevating and lowering chain or cables are connected, and also with a plurality of fingers 9 projecting downwardly below the bottom of the shield so as to engage the top portion of the floating ring 10.

By means of the bends or elbows in the fingers, the shield ring is prevented from contacting with the floating ring thus providing a space for the entrance of sufficient heat to impart a fire polish to the cylinder. Again, by this construction the ring shield may be of the same diameter as the floating ring, and when the parts are in operative position, the floating ring will be held stationary by the engagement therewith of the fingers. There being no contact between the cooled ring shield and the hot floating ring the latter will not be injured by the contact or cooling effect resulting from contact.

It is evident that many slight changes might be resorted to in the relative arrangement of parts shown and described without departing from the spirit and scope of my invention. Hence I would have it understood that I do not wish to confine myself to the exact construction and arrangement of parts shown and described, but,

Having fully described my invention what I claim as new and desire to secure by Letters-Patent, is:—

1. A ring shield for glass drawing apparatus having a plurality of depending fingers to engage and center the floating ring.
2. A ring shield for glass drawing appa-

ratus having a plurality of fingers depending from the lower edge of the ring to engage and center the floating ring.

3. A ring shield for glass drawing apparatus having a plurality of bent fingers adapted to engage and center the floating ring.

4. A ring shield for glass blowing apparatus having a plurality of fingers depending from same the latter being bent to engage a side face of a floating ring.

5. A ring shield for glass blowing apparatus having a plurality of fingers depending from the lower edge of same, the said fingers adapted to engage a side face of a floating ring.

6. A hollow ring shield comprising top and bottom rings and side plate connecting

said rings and forming therewith a cylindrical shield, and fingers depending from said shield.

7. A hollow ring shield, perforated water pipe therein, inlet pipe leading to said perforated pipe and an outlet pipe leading from the hollow shield, of fingers depending from said shield and adapted to engage and hold a floating ring in position under said shield.

In testimony whereof, I have signed this specification in the presence of two subscribing witnesses.

MACK J. HEALY.

Witnesses:

W. C. PURPLE,
F. P. GEOGHEGAN.