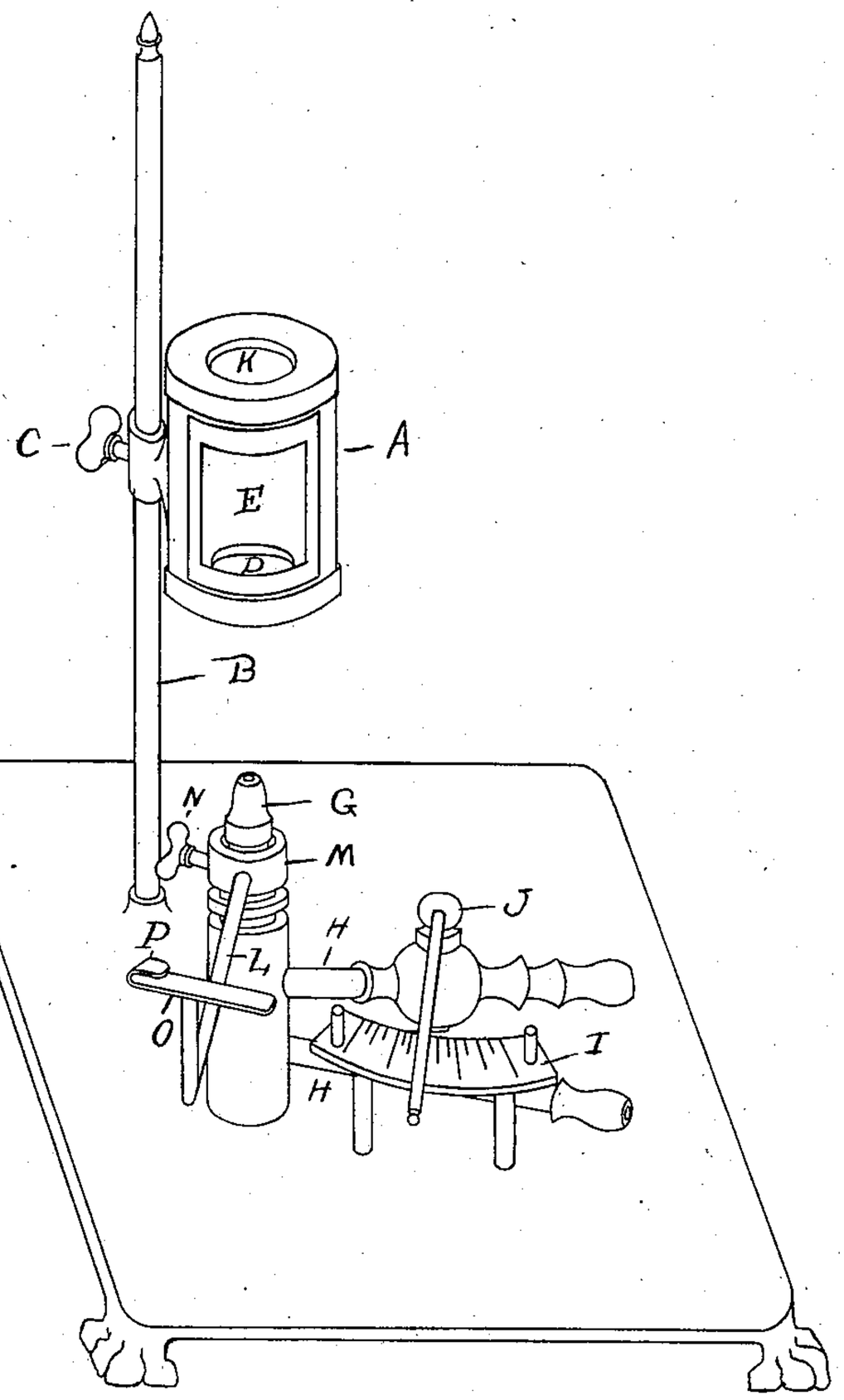
No. 721,808. PATENTED MAR. 3, 1903.

N. S. JENKINS.

PORTABLE MELTING APPARATUS.

APPLICATION FILED NOV. 5, 1902.

NO MODEL.



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UNITED STATES PATENT OFFICE.

NEWELL SILL JENKINS, OF DRESDEN, GERMANY.

PORTABLE MELTING APPARATUS.

SPECIFICATION forming part of Letters Patent No. 721,808, dated March 3, 1903.

Application filed November 5, 1902. Serial No. 130,137. (No model.)

To all whom it may concern:

Be it known that I, NEWELL SILL JENKINS, a citizen of the United States of America, residing at Dresden, in the Kingdom of Saxony, German Empire, have invented certain new and useful Improvements in Portable Melting 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.

This invention relates to improvements in portable melting apparatus, and has for its object to provide an improved support for the ladle-handle and to so construct the muffle as to facilitate the gradual cooling down of the melted contents of the ladle before the ladle is removed from the muffle.

In United States Patent No. 653,007, dated July 3, 1900, is shown an apparatus to which the improvements which form the subject of this application may be applied. Such apparatus described and illustrated in said United States Patent consists of a muffle lined inside with asbestos, open at the front, and provided at its bottom with a hole. Combined with the above apparatus is a gas-burner positioned beneath the muffle. The flame from the burner will be directed against the bottom of a ladle supported within the muffle, passing through the hole in the bottom of the muffle.

Instead of having the bracket which supports the ladle-handle pivotally secured to the muffle itself, as shown in said patent, or upon the same post upon which the muffle is mounted, as shown in United States Patent No. 585,442, dated June 29, 1897, which are objectionable, the one because it cannot be turned to a position in front of the opening in the muffle and the other because it cannot be adjusted vertically relative to the muffle, I provide the bracket with a collar adapted to pass over the end of the burner and to be adjustable vertically thereon and to be held against rotation and at any desired elevation by means of a set-screw passing through the collar and impinging the burner. The arm of the bracket is of a sufficient length and has at its outer end the handle-rest proper, which consists of a flat surface and turned-up end to prevent the ladle-handle from accidentally slipping off. When thus mounted, it can be adjusted vertically or laterally relative to the muffle, as desired, and can be turned to position directly in front of the ladle-opening in muffle.

The drawing shows a perspective view of my improved apparatus.

In said drawing, A represents the muffle, which is supported upon a suitable post B, upon which it is adjustable vertically and upon which it may be turned laterally to suit the convenience of the operator. It is adapted to be held in position by a set-screw C, passing through a collar attached to the muffle and through which the supporting-post B passes. The muffle is provided with a hole D in the bottom and a side opening E for the introduction of a ladle containing the substance to be melted. Below the muffle is the burner G, pipes H, which supply the burner with fuel, the regulating-scale I, and the regulating-valve J. These parts may be substantially the same as in said above-mentioned patents.

My improved muffle is provided with a centrally-positioned opening K in the top, which allows the escape of the hot air and gases, so that when the flame is turned off the muffle and contents of the ladle will cool off gradually, but more quickly than otherwise.

My improved support for the ladle-handle consists of a long arm L, a collar M, adapted to go on over the end of the burner, a set-screw N, and the handle-rest proper, O. For convenience the rest O has the end turned up, as seen at P, to prevent the handle from slipping. The support is adjustable vertically on the burner and is held against accidental rotation and vertical movement by means of said set-screw.

Having thus described my invention and its use, I claim—

1. In a portable melting apparatus, a suitable base, a vertical post mounted thereon, a muffle of refractory material mounted upon said post and provided with a ladle-opening in the side and a hole in the bottom, a burner vertically mounted upon said base below said muffle, means for supplying fuel to said burner and a ladle-handle support pivotally

mounted upon said burner and provided with a long horizontal arm and a transversely-disposed handle-rest at the end of said arm.

2. In a portable melting apparatus, a suitable base, a vertical post mounted thereon, a muffle of refractory material mounted upon said post and provided with a ladle-opening in the side and a hole in the bottom, a burner vertically mounted upon said base below said muffle, means for supplying fuel to said burner and a ladle-handle support mounted upon said burner and adapted to have horizontal and vertical adjustment relative thereto, said support consisting of a collar surrounding said burner, a long horizontal arm and a transversely-disposed handle-rest having handle-guards at the end thereof.

In testimony whereof I affix my signature, in presence of two witnesses, this 1st day of October, 1902.

NEWELL SILL JENKINS.

In presence of—

PAUL E. SCHILLING,

PAUL ARRAS.