

No. 799,310.

PATENTED SEPT. 12, 1905.

B. H. DOLL.
APPARATUS FOR HEATING METAL ROLLS.
APPLICATION FILED APR 9, 1904.

Fig. 1.

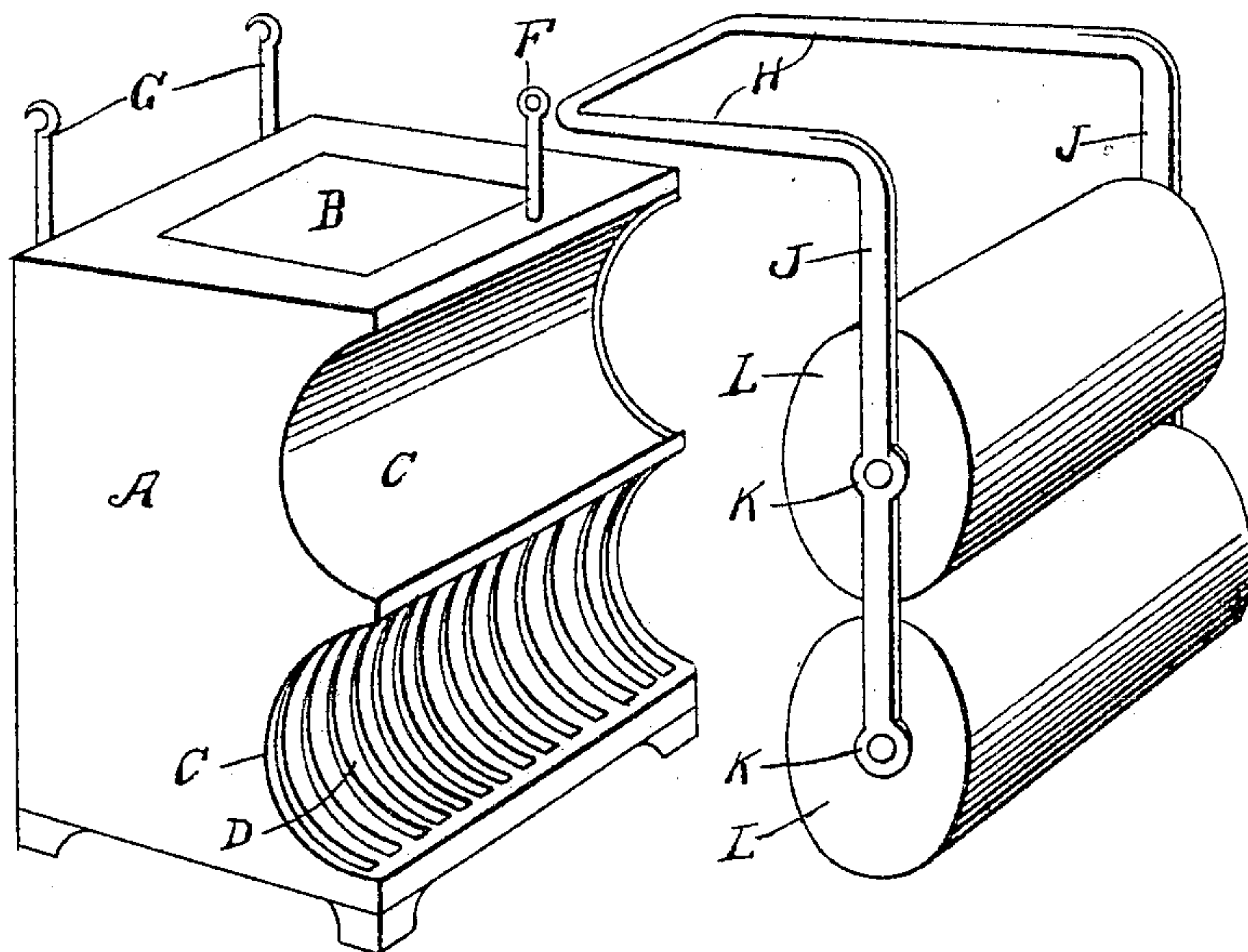


Fig. 2.

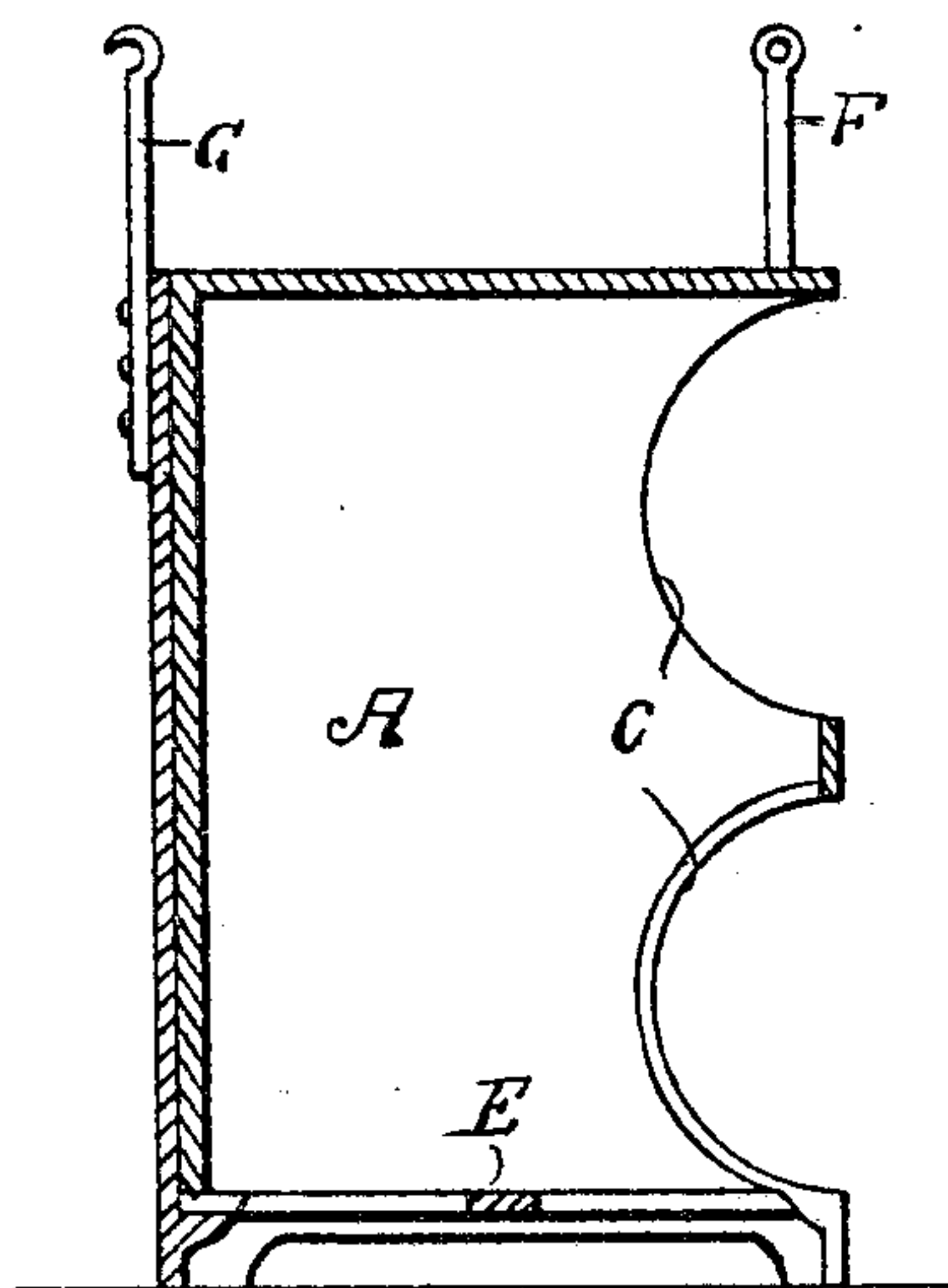
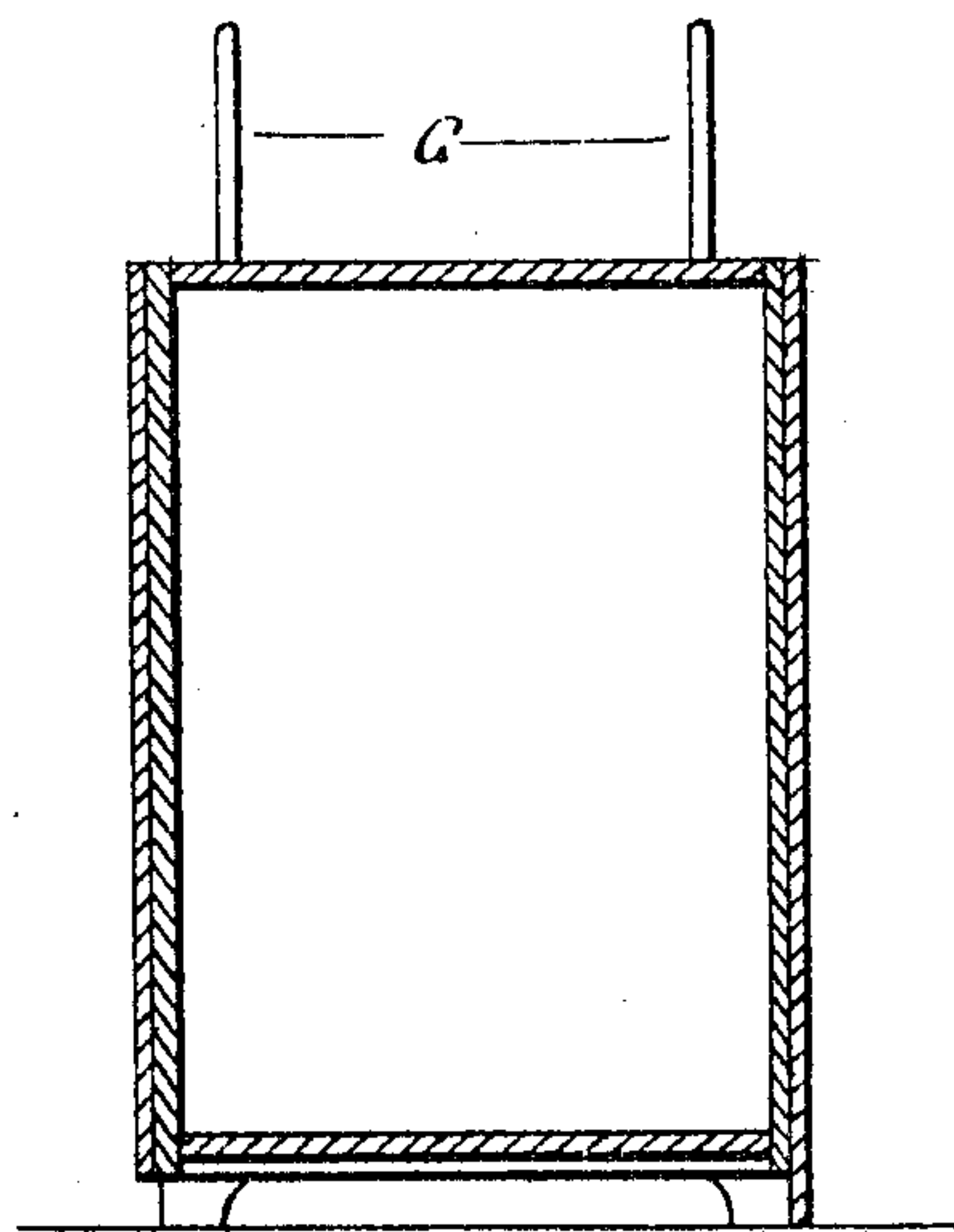


Fig. 3.



WITNESSES:

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APPARATUS FOR HEATING METAL ROLLS.

No. 799,310.

Specification of Letters Patent.

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Application filed April 9, 1904. Serial No. 202,352.

To all whom it may concern:

Be it known that I, BERNARD H. DOLL, a citizen of the United States, residing at Cumberland, in the county of Allegany and State of Maryland, have invented certain new and useful Improvements in Apparatus for Heating Metal Rolls, of which the following is a specification.

My invention relates to an improved apparatus for heating metal rolls, and refers particularly to a novel construction of stove or heater which is used in combination or conjunction with a pair of metal rollers used in rolling sheets of tin or other thin metal, the object being the provision of a heater of extremely simple, inexpensive, and practical construction which will perform the function for which it is intended in an efficient manner.

With this object in view the invention consists, in combination with the rollers, of a heating apparatus adapted to partly surround the rollers and impart the heat directly thereto.

The invention further consists of a heater embodying novel features of construction, substantially as disclosed herein.

Figure 1 represents a perspective view of the complete heater and the pair of rollers with the suspending frame by which they are connected or fitted to the heater. Fig. 2 represents a vertical central sectional view of the heater, and Fig. 3 represents a transverse vertical sectional view.

The heater consists of the casing or housing A, provided at the top with an opening fitted with a cover B for supplying the fuel and having its side walls cut out or recessed at C to receive the pair of rolls, the lower portion of the heater being provided with the barred or grated section D and having the lower wall formed with grate-bars E, this portion of the heater forming a grate.

To the upper or top portion of the heater at its forward end is formed a handle F, and

at its rear wall is provided the pair of hooks G, to which is adapted to be secured the right-angled bail-shaped suspending frame H, having in its vertical arms J bearings K for the pair of metal rollers L, said metal rollers being of the construction used in rolling sheet-tin, or, in fact, for any purpose where they would perform their function.

In operation a fire is made in the grate portion of the heater and the stove is fitted to the rolls, and the heat from the stove or heater thus comes in direct contact with said rolls and heats them to any degree desired, and thus a practical, inexpensive, and thoroughly-efficient roll-heating means or apparatus is provided.

It will be understood that when it is desired to heat the rolls for use in rolling sheets of metal the device is attached to the rolls until they are sufficiently heated, and the heater is then removed.

I claim—

1. The heater for metal rolls consisting of the bottom, the rear, the top formed with an opening, the lid fitting in said opening and the side walls, said side walls being formed with upper and lower curves at their forward portions to fit the rolls to be heated and the lower curved portion being provided with grate-bars.

2. The heater for metal rolls consisting of the casing having the side walls provided with an upper and lower curved portion, said upper portion forming an unobstructed opening in the heater and the lower opening provided with grate-bars, and means for supporting the heater in juxtaposition to the rolls.

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

BERNARD H. DOLL.

Witnesses:

CHAS. E. METZ,
A. B. SPIER.