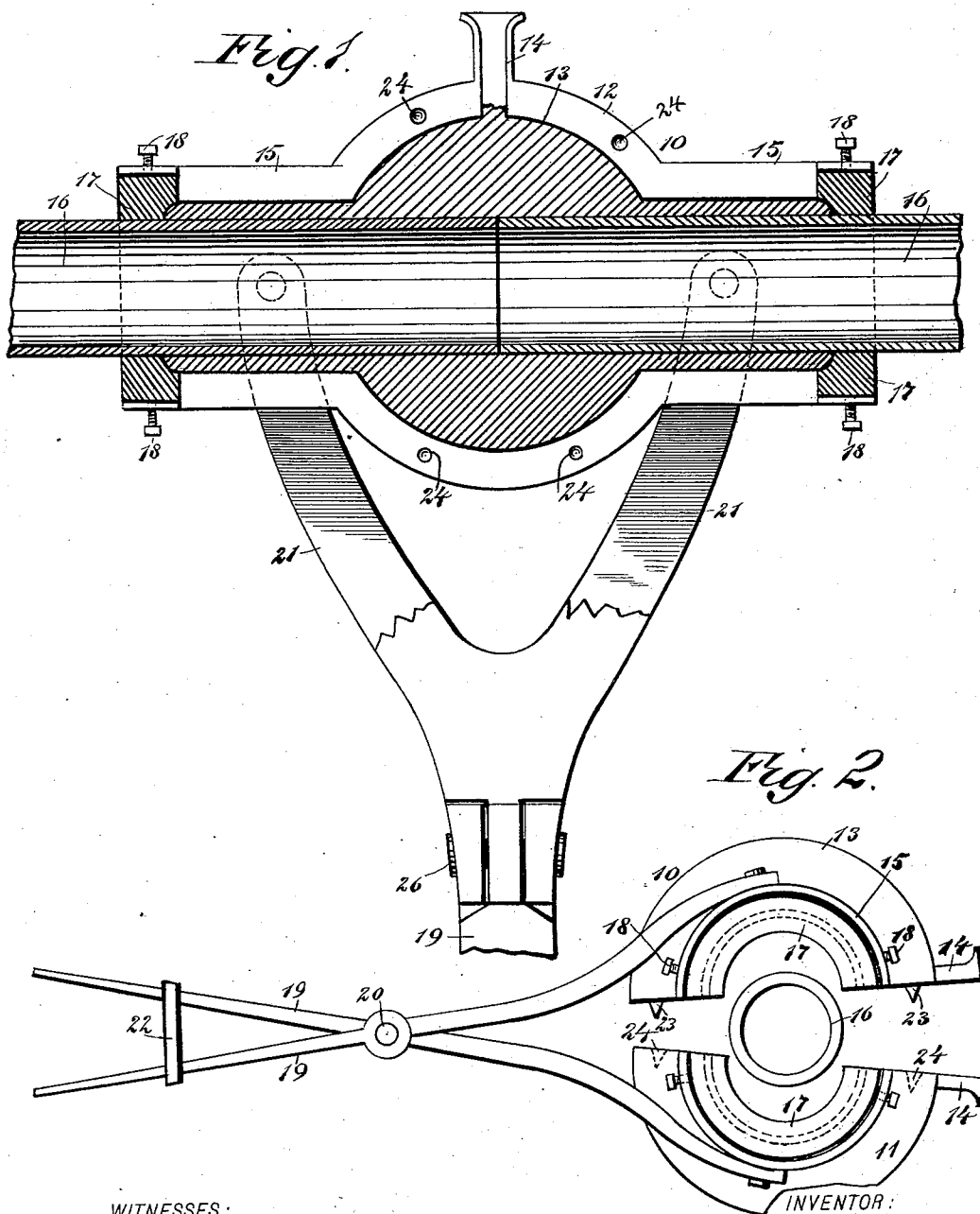


(No Model.)

J. C. RAYMOND.
JOINT MOLD.

No. 471,894.

Patented Mar. 29, 1892.



WITNESSES:
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JOHN C. RAYMOND, OF NEW BRUNSWICK, NEW JERSEY.

JOINT-MOLD.

SPECIFICATION forming part of Letters Patent No. 471,894, dated March 29, 1892.

Application filed June 2, 1891. Serial No. 394,846. (No model.)

To all whom it may concern:

Be it known that I, JOHN C. RAYMOND, of New Brunswick, in the county of Middlesex and State of New Jersey, have invented a new and Improved Joint-Mold, of which the following is a full, clear, and exact description.

My invention relates to improvements in joint-molds which are adapted to facilitate the joining together of lead pipes. It is customary to unite two sections of lead pipe by what is known as a "wiped" joint. This joint is made by hand, is a tedious operation, requires the exercise of considerable skill, and is consequently expensive.

The object of my invention is to produce a mold which may be quickly and nicely fitted around the pipes to be joined and which will enable molten metal to be cast around the joint, so that the joint will be quickly made and will be as nice as one made by hand.

To this end my invention consists in certain features of construction and combinations of parts, which will be hereinafter described and claimed.

Reference is to be had to the accompanying drawings, forming a part of this specification, in which similar figures of reference indicate corresponding parts in both views.

Figure 1 is a broken vertical section of a mold embodying my invention, showing the same applied to two pipe-sections and with the metal to form the joint in place within the mold; and Fig. 2 is a broken end view of the mold, showing it in position to be clasped upon the pipes.

The mold 10 is composed of two similar half-sections 11 and 12, adapted to close together over a pipe. Each section of the mold is enlarged in the middle, as shown at 13, to provide for increasing the thickness of the metal at this point, and the mold is provided with a two-part tube 14, having a flaring mouth, one-half of the tube being secured to each half-section of the mold, and when the sections of the mold are closed together the two parts of the tube will register and will form a convenient duct for the introduction of molten metal. The mold has its ends reduced and elongated, so that there will be but little space between said end portions and

the pipes to which they are fitted, and the extreme ends of the mold are closed by removable washers 17, which fit nicely upon the pipes 16. The washers 17 are made in two parts and fit in recesses in the ends of the mold and are held in place by set-screws 18, which extend through the wall of the mold and into the washers; but other equivalent fastenings may be used. The washers 17 are preferably made of leather and are kept well oiled, so as to resist the action of the metal, and they are also made in slightly-different sizes, as it is well known that a standard size of pipe will vary slightly in diameter, owing to the difference in the thickness of the metal at certain points.

The mold is provided with handles 19, similar to the handles of tongs, said handles being pivoted together, as shown at 20, and the ends of the handles which are secured to the molds are forked, as shown in Fig. 1, and each member 21 of the fork is secured to the mold near one end of the same. Each handle is secured to a separate mold, and it will be readily seen that the mold may be opened and closed by working the handles. The handles are provided with a sliding clasp 22, which serves to hold them and the mold-sections in a fixed position, and one half-section of the mold is provided with projecting studs 23, which enter corresponding recesses 24 in the opposite section, so that they will be held together and all lateral movement will be prevented.

When the mold is to be used, it is clasped around abutting ends of the pipes to be united, as shown in Fig. 1, and the molten lead is poured through the tube 14 into the mold, and it will quickly set around the pipes and adhere closely to them. As soon as the metal has had time to set the mold is removed and the joint is complete.

Having thus described my invention, I claim as new and desire to secure by Letters Patent—

1. A joint-mold comprising two similar half-sections adapted to fit around a pipe and having an enlarged middle portion with tubular ends, the sections having registering studs and recesses in their abutting edges, and tongs-handles for the mold, said handles hav-

ing forked inner ends the members of which are secured to the mold near the ends thereof, substantially as described.

2. A joint-mold comprising two similar half-
5 sections shaped to fit a pipe, said mold having an enlarged middle portion with tubular ends having recesses therein, removable washers held in the end recesses of the mold, and
10 tongs-handles having forked inner ends secured to the mold near the ends thereof, substantially as described.

3. The combination, with two mold-sections shaped to fit a pipe and having a central tube and end washers, of pivoted tongs-handles having forked inner ends the members of 15 which are secured to the mold near opposite ends thereof, substantially as described.

JOHN C. RAYMOND.

Witnesses:

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JOHN McGRATH.