D. W. SNYDER.

HOSIERY DRYING MECHANISM.

APPLICATION FILED MAR. 18, 1915.

1,167,025. Patented Jan. 4, 1916.

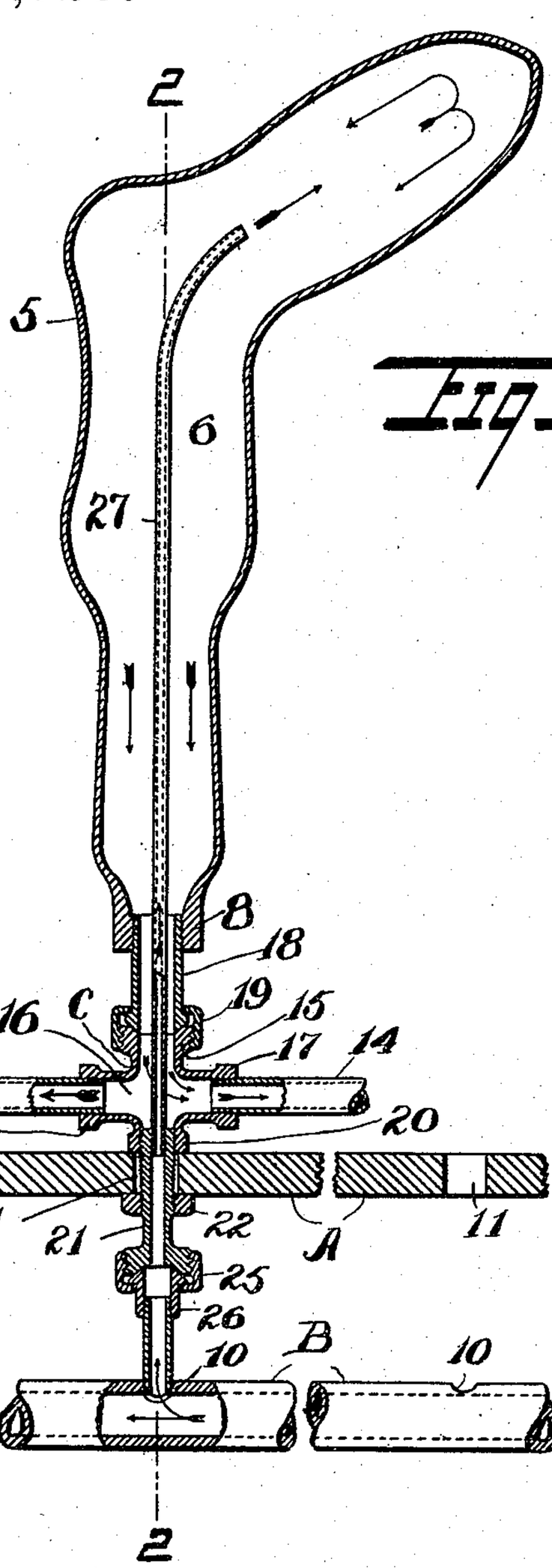

Fig. 1.

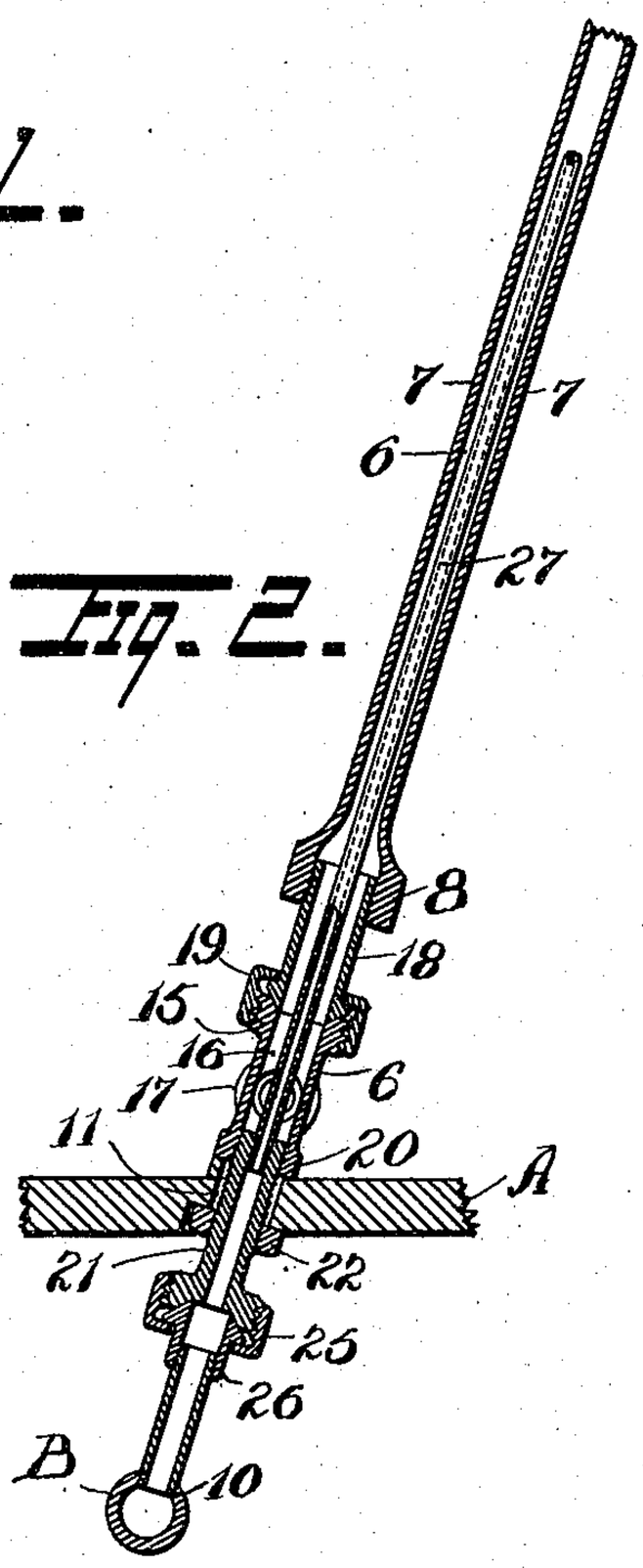

Fig. 2.

Witnesses:

Daniel W. Snyder, Inventor

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UNITED STATES PATENT OFFICE.

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HOSIERY-DRYING MECHANISM.

1,167,025. Specification of Letters Patent. Patented Jan. 4, 1916.

Application filed March 18, 1915. Serial No. 15,269.

To all whom it may concern:

Be it known that I, DANIEL W. SNYDER, a citizen of the United States, residing at Reading, in the county of Berks and State of Pennsylvania, have invented certain new and useful Improvements in Hosiery-Drying Mechanism, of which the following is a specification.

My invention relates to that type of forming and drying mechanism in which the articles treated, such as hosiery, are strung upon interiorly heated hollow formers, as set forth for instance in Pease's Patent No. 568,874, issued October 6, 1896; and it consists in the improved construction hereinafter fully described in connection with the accompanying drawings, the novel features of which are specifically pointed out in the claim.

Figure 1 is a sectional front view showing a preferred embodiment of the invention. Fig. 2 is a sectional view on the line 2—2 of Fig. 1.

The drying former 5, as illustrated, is shaped substantially like the thin board formers ordinarily employed for hosiery, but is made hollow throughout, with thin metal walls adapted to conduct the heat of the steam or like circulating medium to the closely contacting fabric shaped upon it. As shown this former is cast in a single piece, with an unpartitioned narrow space 6 between the spread side walls 7, 7, said space communicating with an interiorly screw-threaded opening in the circularly formed base portion 8 of the former.

A represents a table upon which a series of these formers are conveniently mounted for use, and B indicates a main feed pipe for steam or like heating medium, arranged below the table. The feed pipe B is provided with a series of suitably spaced side outlets 10, 10, and the table has a corresponding series of apertures 11, 11 above the respective feed outlets.

Each former 5 is independently connected to the upright member 15 of a cross-shaped fitting C, which fitting is formed with an exhaust chamber 16 and has exhaust pipes 14—14 extending into its oppositely arranged horizontal members 17, 17. The former is preferably connected to the fitting by a ground-joint union 18, 19, as indicated. The base portion 20 of the fitting is seated upon the table over aperture 11 and is rigidly secured to the table, as shown, by means of a coupling tube 21 which passes through the table aperture 11 and is provided with a clamping nut 22. This coupling tube is secured to the fitting, as shown, by a screw thread engagement with the base portion 20 of the latter; its depending lower end is connected to the side outlet 10 by means of a union 25, 26; and a separately formed feed tube extension 27 thereof loosely extends upward through the exhaust chamber 16 of the fitting C and the union 18, 19, into the former 5.

The feed tube extension 27 is slender enough to extend loosely into the former 5 to any height required for securing uniform heating. The former is readily attached to or detached from the fitting C without detaching the tube 27, and the latter may be conveniently lengthened or shortened when the former is disconnected. The heating medium delivered into the upper portion of the former from upper end of the tube 27, is downwardly discharged therefrom as indicated by the arrows, passing around the tube 27 into the exhaust chamber 16 and through the exhaust piping 14, 14 extending therefrom.

What I claim is:

In a device of the character described, the combination of a hollow former comprising a single piece of thin metal and having a contracted base portion, a cross-shaped fitting provided with an exhaust chamber, exhaust pipes communicating with the oppositely arranged horizontal members of said cross fitting, a ground joint union forming a communication between the fitting and the former, a supporting table having an aperture to which the fitting is attached, a feed pipe for supplying a heating medium to the former, a coupling tube communicating with the feed pipe and the fitting and a separately formed tube extension attached to said coupling tube and passing through the fitting and extending into the former whereby the heating medium may be supplied to the hollow former and exhausted therefrom through the fitting.

In testimony whereof I affix my signature.

DANIEL W. SNYDER.