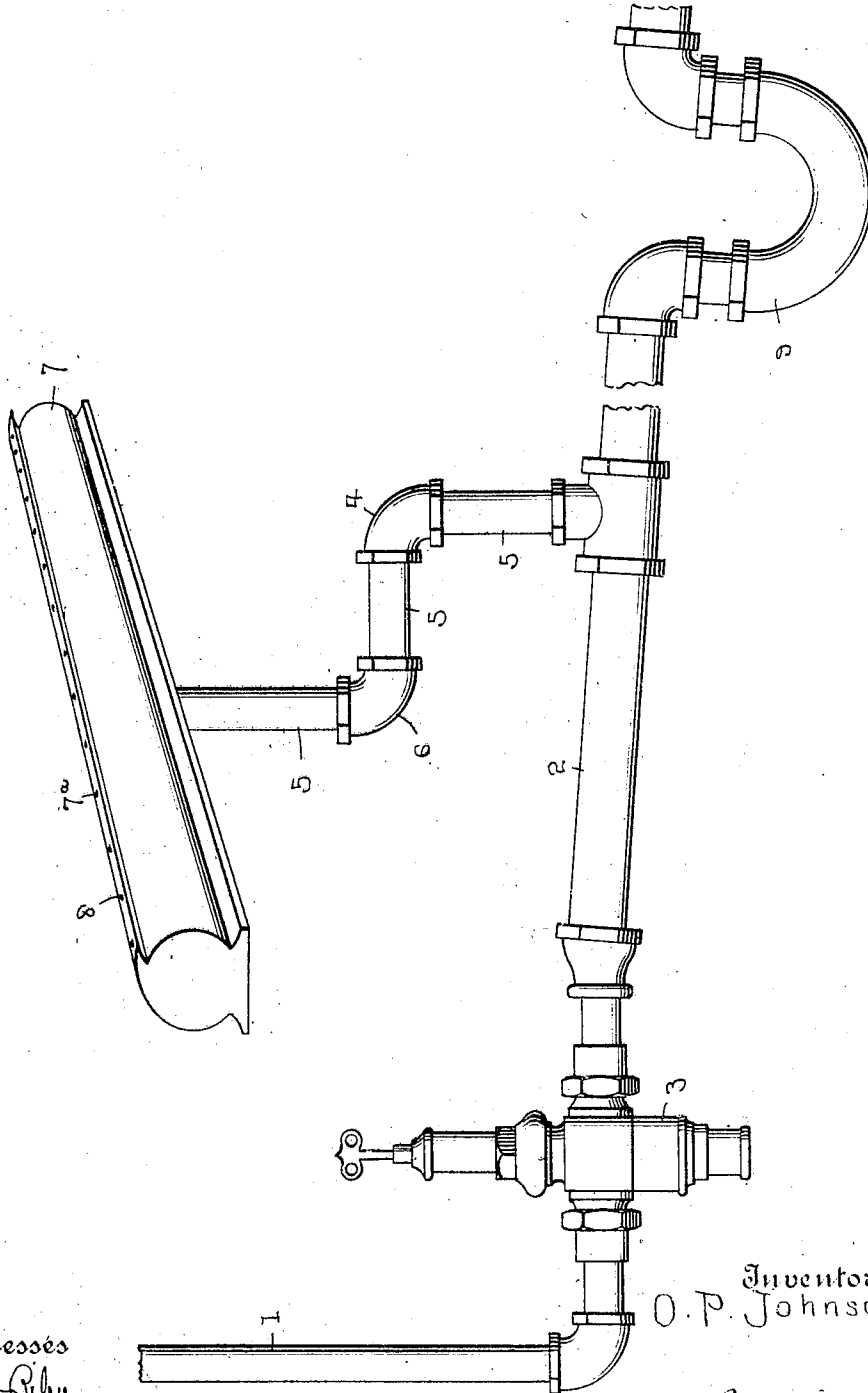


O. P. JOHNSON.
TOE STEAMER.
APPLICATION FILED JULY 2, 1912.

1,055,754.

Patented Mar. 11, 1913.



Witnesses
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UNITED STATES PATENT OFFICE.

OSCAR P. JOHNSON, OF NASHUA, NEW HAMPSHIRE.

TOE-STEAMER.

1,055,754.

Specification of Letters Patent.

Patented Mar. 11, 1913.

Application filed July 2, 1912. Serial No. 707,241.

To all whom it may concern:

Be it known that I, OSCAR P. JOHNSON, a citizen of the United States, residing at Nashua, in the county of Hillsboro and State of New Hampshire, have invented certain new and useful Improvements in Toe-Steammers; 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 toe steamers, and has for its object to provide a system for applying substantially dry steam to shoes during their manufacture, whereby the leather is sufficiently softened to allow shaping without the objectionable and usual spotting and burning thereof.

Another object is to provide means for regulating the flow of steam simultaneously through a plurality of steamers located on a main line.

A still further object is to arrange the steam feeding pipes in such relation to the steamers, that said pipes provide a drain for the steam which condenses therein.

In the accompanying drawing is disclosed a side elevation of my toe steamer.

Referring to the drawings, 1 represents a steam supply pipe, 2 the main pipe and 3 a valve connecting said supply pipe and said main pipe for controlling the flow of steam into the latter.

At intervals along the main pipe 2 are provided branches 4, consisting of angularly arranged short pipe sections 5 connected by elbows, or the like, 6.

Connected with the top vertically disposed pipe section 5 is the substantially cylindrical steamer 7, having an outwardly directed lip 8 extending longitudinally thereof. The lip is provided with small apertures 7^a through which the steam rises, softening the leather of a shoe placed thereover.

While I have shown only one steamer connected with the main pipe 2, it will be understood that I may, when it is required, connect any number of steamers with said supply pipe. Manipulation of the valve 3

regulates the flow of steam to the steamer, thus varying the softening action of the steam upon the leather.

As clearly shown in the drawing, the main pipe 2 is inclined from its valved end to the opposite end, whereby the condensed steam will flow from the steamer 7 to the main pipe 2, through the branch 4, and thence to the trap 9 located at a low point in said pipe. Thus it will be seen that the main pipe 2 and branch 4 serve the double purpose of feed and drain pipes.

In use, the steamers are fed with steam from the steam supply pipe 1 through the valve 3, sufficient steam being admitted through said valve to merely fill the pipes and cylinders, thus allowing only the dry steam to rise through the apertures in the lip. While the toe is still loose from the sole of the shoe, the toe of the last is placed under the lip 8, while the upper part of the shoe (toe-part), is raised on the top of the steamer. In this position, the upper leather of the shoe receives the steam as it rises from the aforesaid apertures, softening the same so that it may be formed into such shapes as desired.

What I claim is:—

1. A toe steamer comprising a main pipe, a steam cylinder connected therewith, a lip extending longitudinally of said cylinder and having apertures in the upper surfaces thereof, and means for supplying substantially free and dry steam to said pipe, cylinders and lips.

2. A toe steamer comprising a supply pipe, an inclined main pipe, a valve connecting the upper end of said main pipe with said supply pipe, a trap at the lower end of said main pipe, a cylinder, and a perforated curved lip extending longitudinally of said cylinder.

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

OSCAR P. JOHNSON.

Witnesses:

ALBERT TERRIEN,
NIKALAI STAPANDONAS.