

No. 632,699.

Patented Sept. 12, 1899.

P. J. CONGDON.  
LACING.

(Application filed Aug. 10, 1898.)

(No Model.)

Fig. 1.

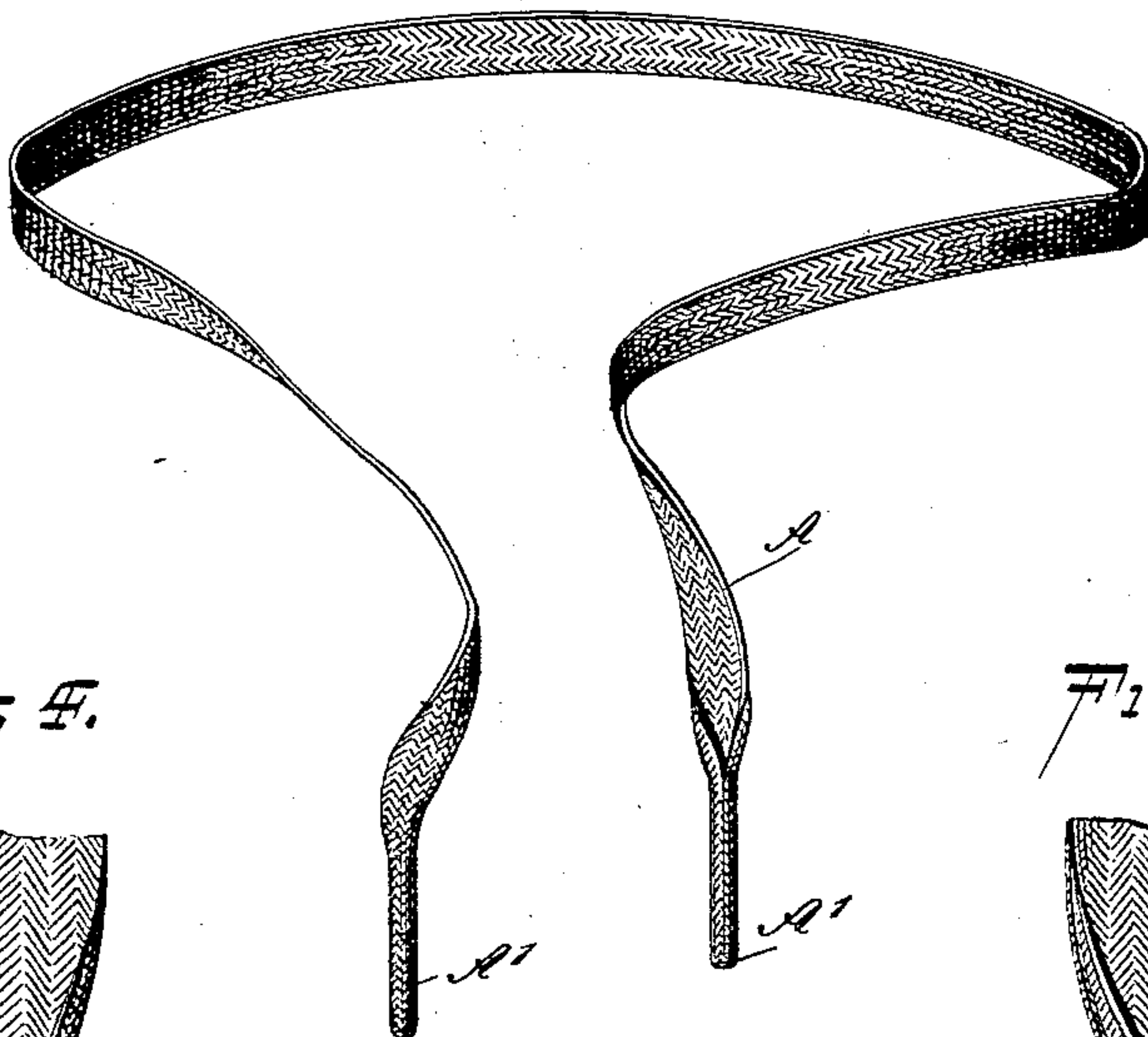


Fig. 4.

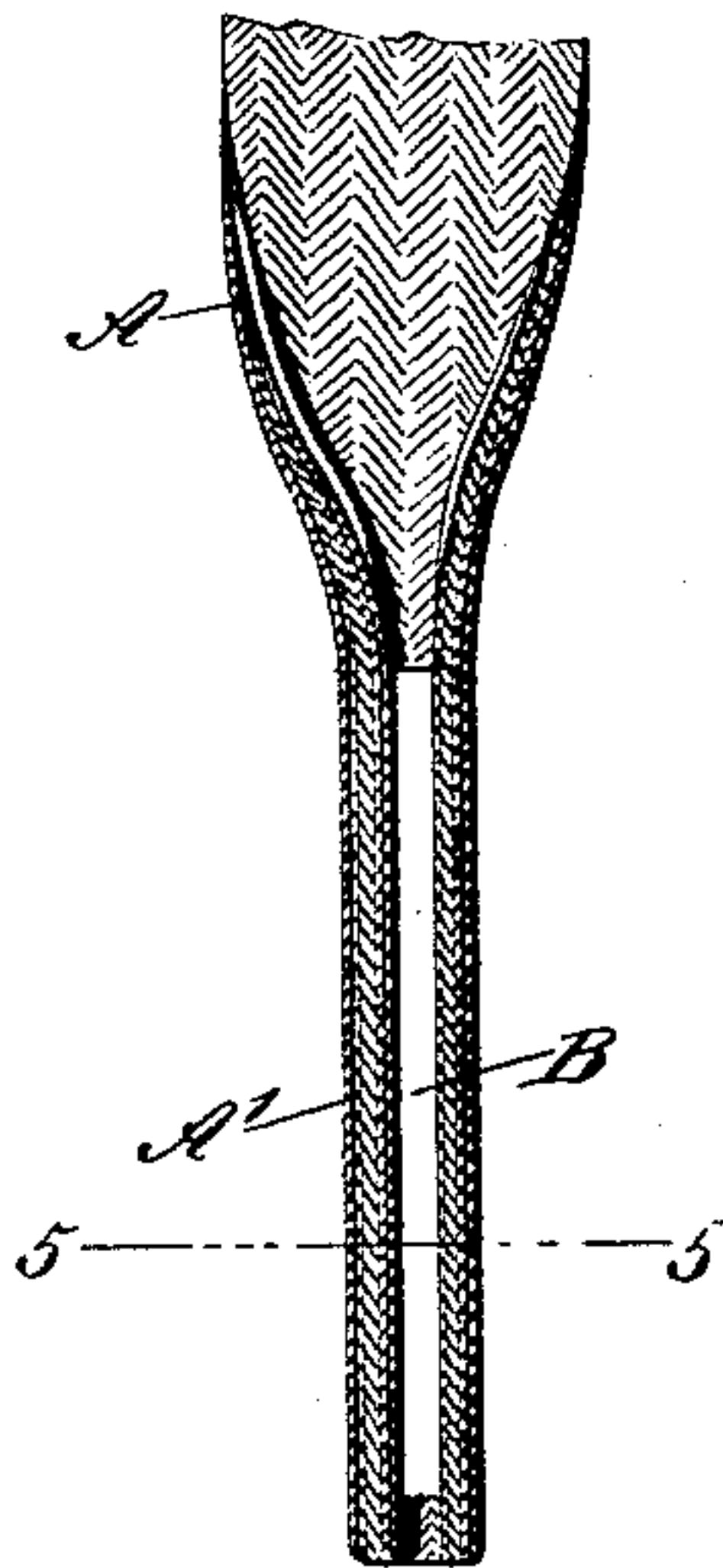


Fig. 2.

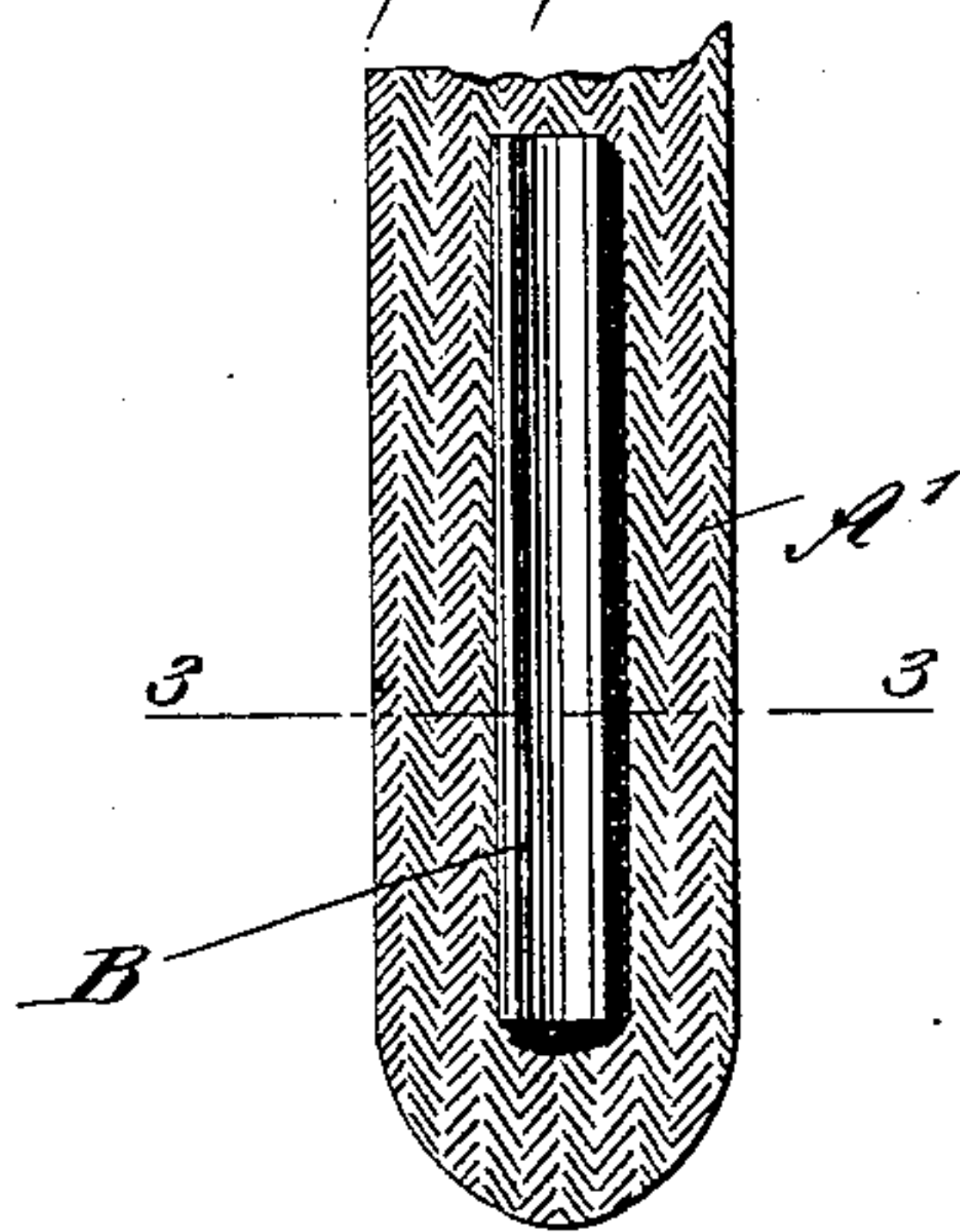


Fig. 6.

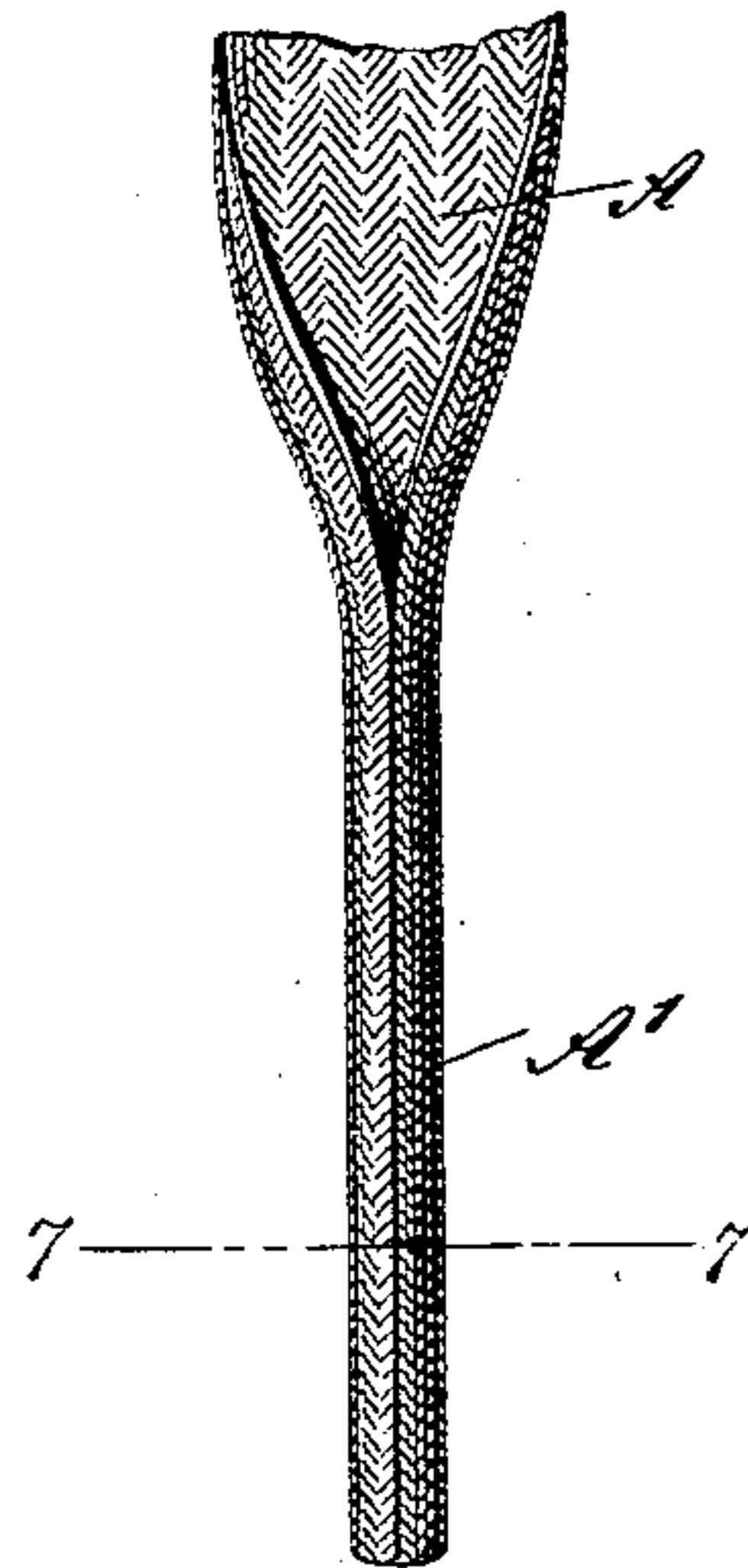


Fig. 5.



Fig. 3.

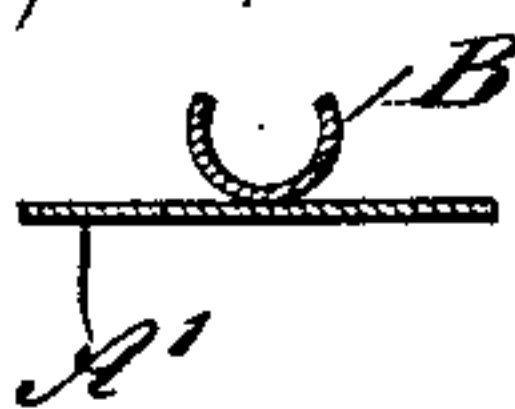


Fig. 7.



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# UNITED STATES PATENT OFFICE.

PELEG JAMES CONGDON, OF PROVIDENCE, RHODE ISLAND.

## LACING.

SPECIFICATION forming part of Letters Patent No. 632,699, dated September 12, 1899.

Application filed August 10, 1898. Serial No. 688,281. (No model.)

*To all whom it may concern:*

Be it known that I, PELEG JAMES CONGDON, of Providence, in the county of Providence and State of Rhode Island, have invented a new and Improved Lacing, of which the following is a full, clear, and exact description.

The invention relates to shoe and corset lacings; and its object is to provide a new and improved lacing-tip which is simple and durable in construction, very neat in appearance, and sufficiently stiffened by a hidden metallic core not liable to become detached from the lacing fabric.

The invention consists of novel features and parts and combinations of the same, as will be fully described hereinafter and then pointed out in the claims.

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

Figure 1 is a perspective view of the improvement. Fig. 2 is an enlarged plan view of the metallic core on the fabric previous to wrapping the latter. Fig. 3 is a sectional end elevation of the same on the line 3 3 in Fig. 2. Fig. 4 is an enlarged plan view of the core, shown wrapped in the fabric. Fig. 5 is a sectional end elevation of the same on the line 5 5 in Fig. 4. Fig. 6 is an enlarged plan view of the finished tip, and Fig. 7 is a sectional end elevation of the same on the line 7 7 in Fig. 6.

The improved lacing is provided with a lacing fabric A, having a metallic core B wrapped in each end A' of the said fabric. The core B is made in the form of a metallic split tube, and in manufacturing the tip the tube is placed on the flat end A' of the fabric A, as is plainly shown in Fig. 2, one end of the core being a suitable distance from the rounded edge of the end A'.

In order to wrap the core within the fabric end A', the operator places the extreme outer end of the fabric into the outer end of the core B at the split or longitudinal opening of the tube, then folds in the sides of the end A', as plainly indicated in Fig. 5, and finally the end is subjected to side pressure by a suitable device, so as to close the tube and securely fasten the turned-in sides and end of the fabric in place. (See Figs. 6 and 7.) By the arrangement described the metallic core B forms the means for holding the fabric material around the core, which is com-

pletely hidden from view, the fabric material only appearing throughout the entire length of the lacing, including the tips.

It is understood that when pressure is applied on the sides of the tip after the sides of the fabric have been folded longitudinally into the split or opening of the tube then the side edges along the split of the tube clamp or bind the fabric material, so that the edges thereof remain within the tubular core and the fabric material is tightly and firmly stretched over the surface of the core. Thus a very neat appearance is given to the lacing, and at the same time the core, which forms the stiffener for the tip, is not liable to become accidentally detached, and no glue or other binding substance whatever is required for securely holding the core in place on the fabric material.

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

1. The combination, with a lacing, of a stiffener in the form of a split tube, the tube being located at the end of the lacing and clamping a side edge thereof in its split, as and for the purpose described.

2. The combination, with a lacing, of a stiffener in the form of a split tube, the said tube clamping a side edge of the lacing in its split and having the lacing rolled around it whereby the tube is held inclosed in the lacing to form a stiffened tip, as and for the purpose described.

3. The combination with a lacing, of a split tube laid longitudinally on the lacing at the end thereof, the said tube clamping both side edges of the lacing in its split whereby the tube will be securely inclosed in lacing when the split is closed or pressed together and form a stiffened tip, as described.

4. The combination with a lacing, of a stiffener in the form of a split tube, the said tube being located at the end of the lacing, which latter has its side edges clamped in the split and its extreme outer end inserted in the end of the tube, whereby the tube will be securely inclosed in the end of the lacing when the split is closed and form a stiffened tip as described.

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Witnesses:

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