

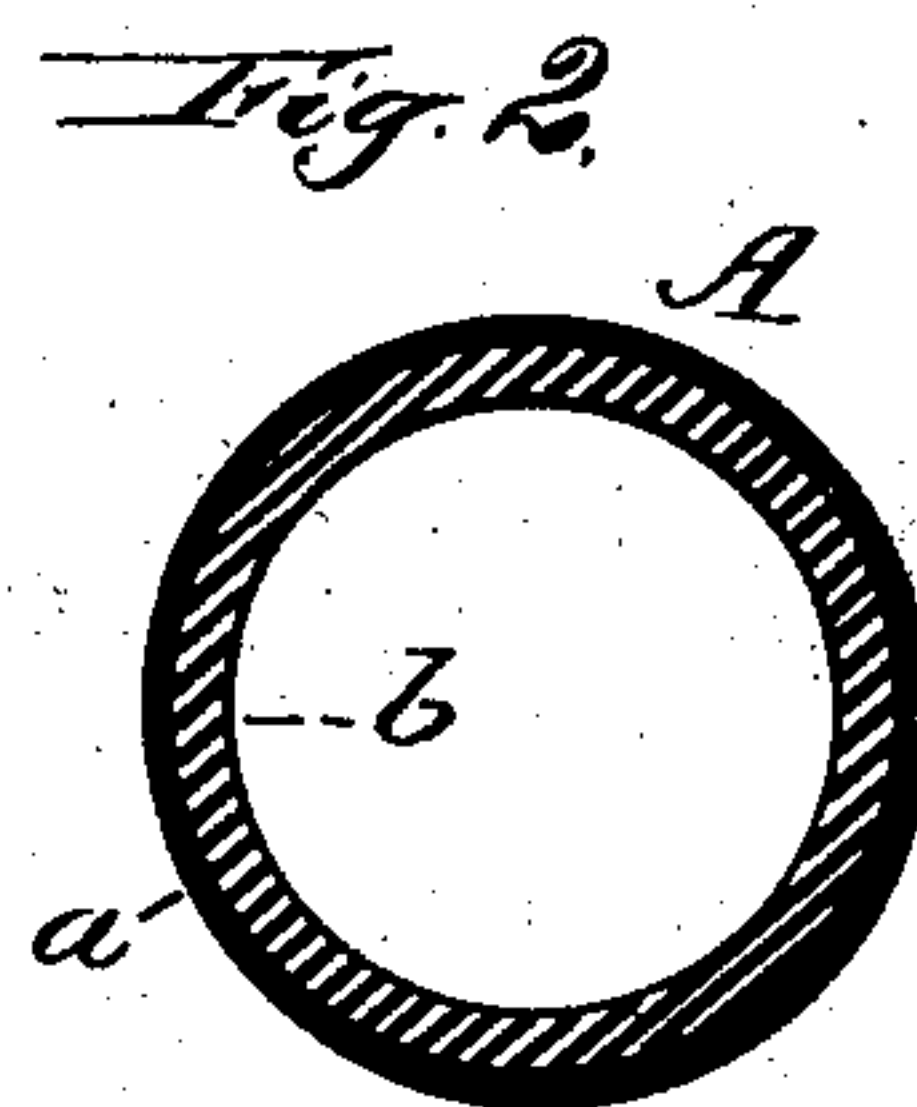
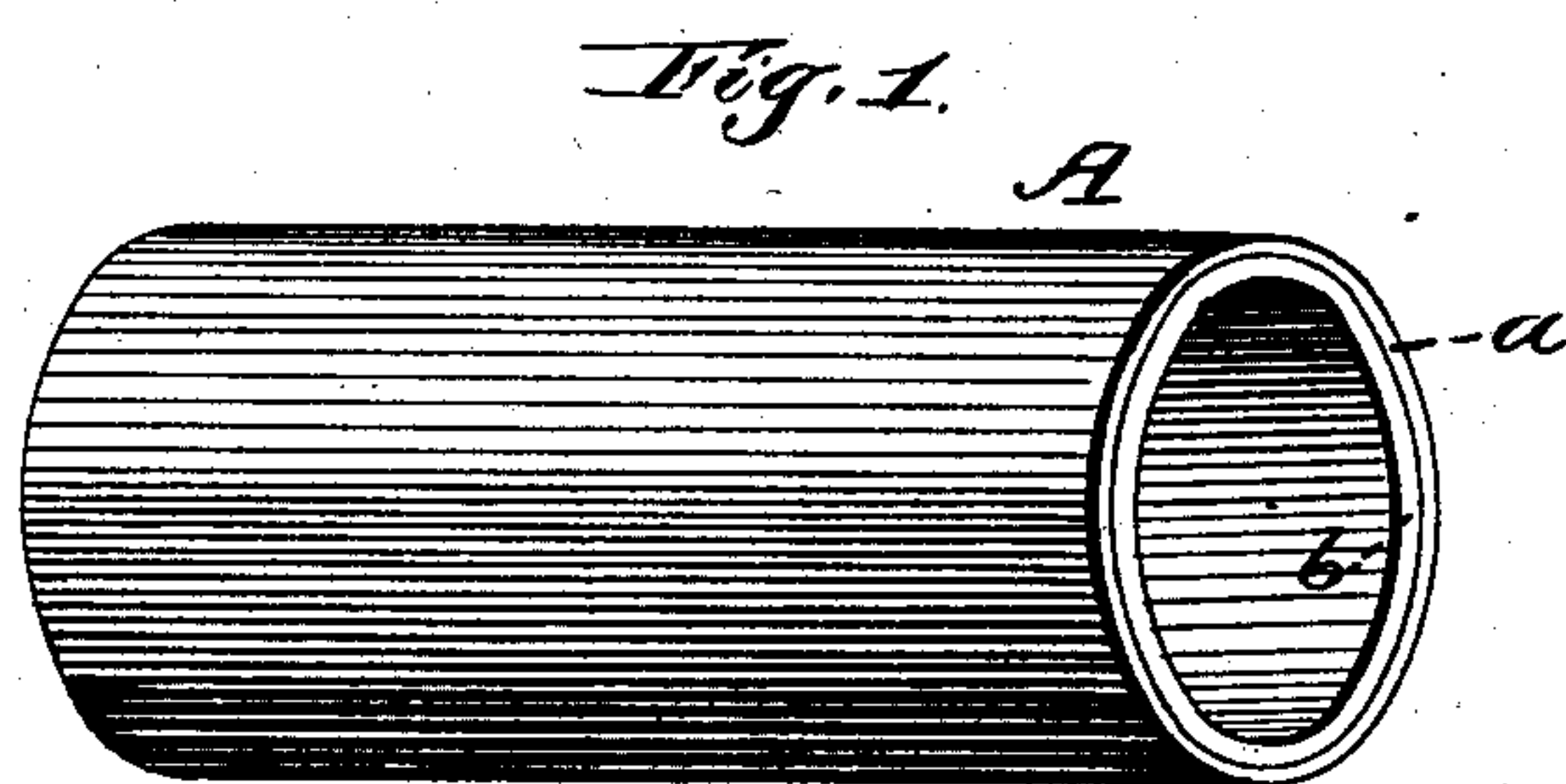
(No Model.)

E. L. PERRY.

COVERING FOR TOP ROLLS OF SPINNING MACHINES.

No. 260,780.

Patented July 11, 1882.



Witnesses:
W. C. Arthur,
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UNITED STATES PATENT OFFICE.

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COVERING FOR TOP ROLLS OF SPINNING-MACHINES.

SPECIFICATION forming part of Letters Patent No. 260,780, dated July 11, 1882.

Application filed July 27, 1881. (No model.)

To all whom it may concern:

Be it known that I, EDWARD L. PERRY, a citizen of the United States, residing at Paterson, in the county of Passaic and State of New Jersey, have invented certain new and useful Improvements in Coverings for Top Rolls of Spinning-Machines; and I do hereby declare that the following is a full, clear, and exact description of the same, reference being had to the annexed drawings, making a part of this specification, and to the letters and figures of reference marked thereon.

Figure 1 of the drawings is a perspective view of my invention, and Fig. 2 is a cross-section thereof.

The present invention has relation to coverings or cots for the draft-rolls of spinning-machines. Previous to my invention these coverings or cots were usually made of the same internal diameter as the diameter of the draft-roll, and after being slipped over the same the coverings or cots were secured thereto by suitable cement. In order to accomplish this, it was necessary to send the draft-rolls, when the coverings or cots became worn or injured, to persons who made a business of re-covering the rolls. Otherwise it required considerable care and skill in properly and successfully removing the old or worn-out covering and replacing it with a new one. Coverings have also been formed from a compound composed of india-rubber and pulverized plumbago or black-lead, which were ground together previous to vulcanizing. Both of the above classes of coverings or cots were open to very serious objections, that of fluting, causing "lapping up" of the roll, as it is called.

The object of the present invention is to remove as far as possible the above objections by forming the interior of the cot or covering of sufficient elasticity to admit of being drawn on over the end of the draft-roll and securely held in place thereon by its own elasticity without the use of cement, thereby enabling the covering or cot to be removed when worn out and replaced by a new one by a boy or any unskilled laborer. In addition to forming the covering or cot with an elastic interior, it is the object to have the exterior or outer

surface thereof of plumbago, which will be non-elastic, and will not flute and cause lapping up of the roll, as would be the case were the outer or exterior surface of rubber or other similar elastic material. These objects I attain by the construction substantially as shown in the drawings and hereinafter described.

In the accompanying drawings, A represents the covering or cot, its interior diameter being slightly less than that of the draft-roll over which it is placed, so that the covering or cot will hold itself on the roll by its own elasticity.

The covering or cot A, which may be of any desirable size to conform to the size of the draft-roll, is composed of an elastic interior, *b*, of rubber, and a non-elastic exterior, *a*, of plumbago.

The elastic surface or interior *b* enables the covering or cot A to be drawn on over the end of the draft-roll and properly adjusted thereon, and held in place by its own elasticity.

In drawing the covering or cot A on or over the roll the pressure outward of the rubber *b* against the plumbago surface *a*, being equal throughout its circumference, will not displace or affect said outer layer or surface, *a*, as the diameter of the opening in the covering or cot A is but very little less than that of the draft-roll, sufficient only to hold the covering or cot in place after being drawn over or on the draft-roll.

A very important feature of the plumbago surface *a* is the non-conformity to any surface with which it may be brought in contact, while the elastic interior *b* will act as a cushion for the plumbago surface, thereby rendering the cot or covering of the required elasticity for the purpose intended.

The elastic interior *b* enables the covering or cot to readily adhere to the surface of the draft-roll without the employment of any adhesive material, or requiring skilled labor commonly known to the trade as a "roll-coverer."

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

1. A covering or cot for draft-rolls, having

its interior formed of an elastic material and its exterior of plumbago, substantially as and for the purpose set forth.

5 2. A covering or cot for draft-rolls, formed of two independent layers, the interior layer being composed of rubber and the outer layer of plumbago, substantially as and for the purpose specified.

In testimony that I claim the above I have hereunto subscribed my name in the presence of two witnesses.

EDWARD L. PERRY.

Witnesses:

H. S. WINANS,
H. A. HALL.