S. D. Tucker.

Lithographic Inking Roller.

No. 90702. Patented Jun. 1. 1869.

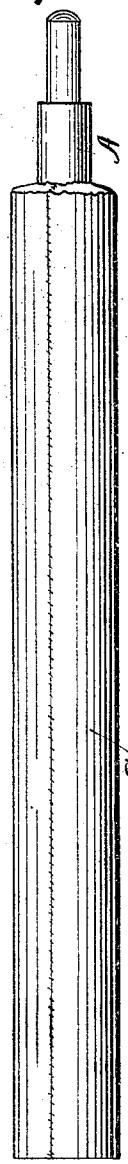


Fig. 1.

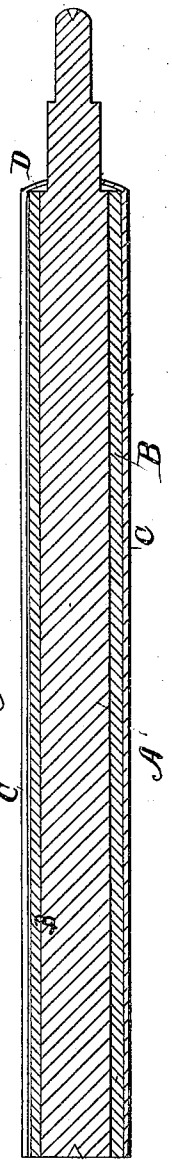


Fig. 2.

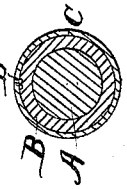


Fig. 3.

Witnesses:

C. A. Dwight.

Edward E. Osborn.

Inventor:

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United States Patent Office.

STEPHEN D. TUCKER, OF NEW YORK, N. Y.

Letters Patent No. 90,702, *dated June* 1, 1869.

IMPROVEMENT IN LITHOGRAPHIC INKING-ROLLERS.

The Schedule referred to in these Letters Patent and making part of the same.

To all whom it may concern:

Be it known that I, STEPHEN D. TUCKER, of the city, county, and State of New York, have invented a new and improved Inking-Roller; and I do hereby declare the following to be a full, clear, and exact description of the construction and operation of the same, reference being had to the accompanying drawings, in which—

Figure 1 is a view of a part of a roller;

Figure 2, a longitudinal section; and

Figure 3 a transverse section.

Similar letters of reference indicate like parts in all the drawings.

Heretofore, in lithographic printing, the stones have generally been inked by a roller made up of a heavy metal core, covered with a layer or two of cloth, or some similar material, and over this a covering of leather. These rollers are never truly cylindrical, and but slightly elastic, and as the stones have a flat and level surface, the rollers require to be very heavy, or pressed down by weights or springs, in order to make every part of their uneven, and but slightly elastic surface, touch the stone.

My invention consists in surrounding a metal core with a coating of rubber, of such thickness, and vulcanized to such a degree, as to have the proper elasticity.

This rubber coating may be a tube, drawn over the metal core, but I prefer it should be cast on in a mould, so as to secure a perfectly cylindrical surface.

Over this is drawn a leathern covering, previously shaved to an even thickness, and sewed in form of a tube, having the seam on the inner side, and this seam lies in a groove, cut or cast in the surface of the rubber to receive it.

In this manner, a roller is made with a leathern surface, perfectly cylindrical, and elastic to any degree required, so that, in rolling over the stone, the two surfaces will come perfectly in contact, even if the surface of the stone should be somewhat uneven, as is sometimes the case.

Buckskin, or any similar material, may be used as an outside covering, and it may be sewn together over the rubber, and not require the groove for the seam, but I prefer leather put on in the manner described above.

Having thus fully described my invention,

What I claim, and desire to secure by Letters Patent, is—

A roller, for inking lithographic stones, formed of a metal core, A, surrounded by a coating of rubber, B, combined with an outer covering of leather, C, or its equivalent, substantially as described and specified.

Witnesses: SPEPHEN D. TUCKER.

C. A. DURGIN,

EDWARD E. OSBORN.