

United States Patent Office.

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Letters Patent No. 110,522, dated December 27, 1870; antedated December 17, 1870.

IMPROVEMENT IN PRINTERS' INKING-ROLLERS.

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

I, CHARLES S. WESTCOTT, of Elizabeth, in the county of Union and State of New Jersey, have invented certain Improvements in Printers' Inking-Rollers, of which the following is a specification.

My invention has for its chief object the improvement of the printers' ink-roller, now in general use, composed mainly of glue and treacle, or of glue and honey, glycerine, or some similar or analogous substance, by covering the same with a skin or outer surface of India rubber, gutta-percha, leather, cloth, or other suitable material, so as to give the ink-roller more durability, and rendering it more easily to be cleaned.

I also design to include within the object of my invention an ink-roller covered as aforesaid, the body of which will be sponge, or combined with glue, glycerine, or other substances suitable for the body of the roller, excluding, however, India-rubber sponge or India-rubber moss.

To accomplish this, I make a sack or skin of India rubber, vulcanized or not, leather, cloth, or other suitable fabric, which, when filled as hereinafter described, will be of size and form required for the contemplated ink-roller. The inside of this sack or skin I make rough or corrugated, so as not to slip or turn easily upon its filling. Through the sack or skin, longitudinally, I insert a shaft or spindle for the center of the roller. The ends of the sack or skin I close up around the shaft or spindle with India rubber skin, India-rubber cloth, leather, cloth, metal plate, or other suitable material, to cause it to adhere firmly to the shaft or spindle, and prevent slipping or turning upon it, making or leaving a hole or opening at one end through which to fill the skin or sack. I then place the sack or skin, with the spindle or shaft inserted into a hollow mold of suitable form and smoothness inside, and fill the sack or skin through the opening with a composition of melted glue and treacle or glue and honey, such as is usually used in the formation of ink-rollers, and of the requisite consistency, or

with other substance of a similar nature, or with fine pulverized sponge, singly or combined with glutinous or other suitable substances, (not India-rubber sponge or India-rubber moss, which are expressly excluded,) which will be of the necessary consistency and pliability to form the body of ink-rollers. The opening may then be closed or not, as desirable. The roller is then ready for use.

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

1. An ink-roller, the body of which is composed of a composition of glue and treacle or glue and honey, such as is generally used in the formation of printers' ink-rollers, or of some other substance (not rubber or moss) of a similar nature which will be of the consistency and pliability requisite for the body of the roller, in combination with an external surface or a coating of solid rubber, either vulcanized or not, gutta-percha, or of leather or fibrous or textile material, or combined with rubber, gutta-percha, or some other suitable material, substantially as described.

2. An ink-roller, the body of which shall be of glue and treacle or glue and honey, or some other glutinous gum or pliable substance, (not India-rubber sponge or India-rubber moss,) and the external surface or coating of India rubber, gutta-percha, leather, cloth, or some other suitable material, substantially as set forth.

3. An ink-roller, the body of which shall be sponge, or sponge combined with glue, glycerine, or some other soft or glutinous substance suitable for the body of a printer's ink-roller, not including India-rubber sponge or India-rubber moss, combined with an outer skin or covering of India rubber, gutta-percha, leather, cloth, or some other suitable material, substantially as set forth.

C. S. WESTCOTT.

Witnesses:

WM. C. FREEMAN,
W. E. P. BAYLIS.