

(No Model.)

W. JONES.
PAPER HANGER'S ROLLER.

No. 525,217.

Patented Aug. 28, 1894.

Fig. 1.

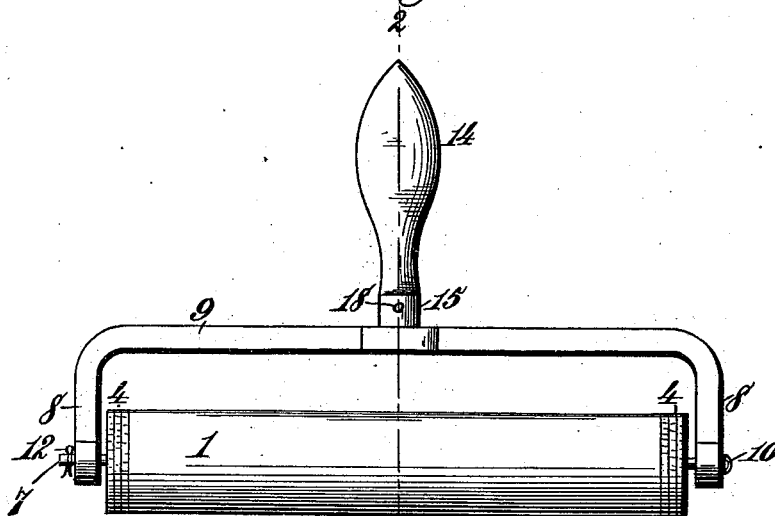


Fig. 2.

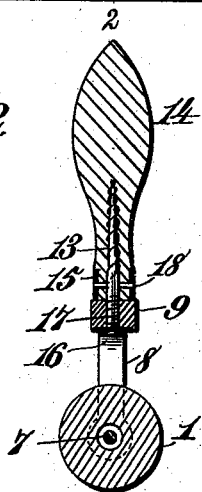
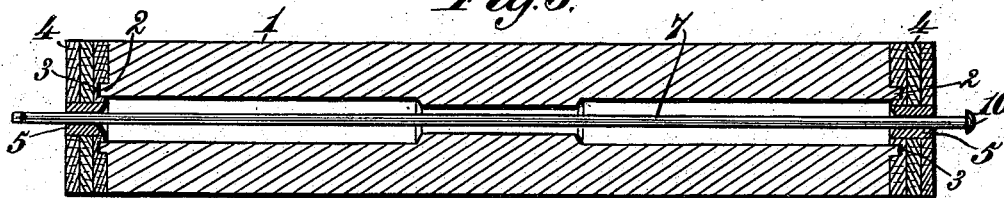


Fig. 3.



Witnesses.
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UNITED STATES PATENT OFFICE.

WILLIAM JONES, OF HARRISBURG, PENNSYLVANIA.

PAPER-HANGER'S ROLLER.

SPECIFICATION forming part of Letters Patent No. 525,217, dated August 28, 1894.

Application filed April 20, 1894. Serial No. 508,370. (No model.)

To all whom it may concern:

Be it known that I, WILLIAM JONES, a citizen of the United States, residing at Harrisburg, in the county of Dauphin and State of Pennsylvania, have invented new and useful Improvements in Paper-Hangers' Rollers, of which the following is a specification.

This invention relates to hand rollers particularly designed for paper hangers in smoothing and applying paper in papering walls and ceilings.

The object of my invention is to provide a new and improved roller which will run smoothly and noiselessly, is compact, light in weight, strong, durable and efficient, and wherein the several parts comprising the structure can be conveniently assembled and detachably secured together to facilitate repairs whenever occasion demands.

The invention consists essentially in a paper hanger's roller, consisting of a hollow cylinder having an annular projecting tongue at each end, disk heads provided with inserted bushings, and annular grooves into which the annular tongues of the cylinder extend, a through shaft extending through the cylinder and bushings and projecting from the latter, and a yoke having its arms mounted on the projecting ends of the shaft and provided with a central handle, all as will more fully hereinafter appear.

The invention also consists in certain other features of construction and combination or arrangement of parts hereinafter described and claimed, reference being made to the accompanying drawings, in which—

Figure 1 is a plan view of a paper hanger's roller constructed in accordance with my invention; Fig. 2 a sectional view taken on the line 2—2, Fig. 1; and Fig. 3 a longitudinal central sectional view through the cylinder or roller proper, the handle-carrying yoke being omitted.

In order to enable those skilled in the art to make and use my invention, I will now describe the same in detail, referring to the drawings, wherein—

The numeral 1 indicates a hollow cylinder having at each end an annular projecting tongue 2 which surrounds the bore through the cylinder. The annular tongues 2 are adapted to enter annular grooves 3 formed in disk

heads 4, each of which is composed of several layers of wood with the grain running crosswise, and the layers glued or cemented together to produce a solid structure. The formation of the disk heads of several layers of wood, in the manner described, produces a very desirable finish for the ends of the cylinder, and effectually prevents the ends of the latter from being splintered or otherwise damaged, which is very important and desirable where a wooden roller is employed. A wooden roller is desirable, in that it is light in weight and easily handled, which is something not attained with a metallic roller. The disk-heads 4 are each provided at the center with an inserted bushing 5 of hard wood or lignum-vitæ, which bushings constitute journals to receive the through-shaft 7 on which the cylinder rotates. The shaft 7 is preferably of steel, and it extends through the cylinder and bushings, and is of such length that its end portions project from the disk-heads to receive the parallel arms 8 of a yoke 9, which is preferably composed of aluminum, but which may be of steel or any other metal suitable for the conditions required. The extremities of the parallel arms 8 are provided with eyes through which the end portions of the shaft 7 extend, one end of the shaft having a head 10, and the other being provided with a removable key or cotter 12 for retaining the shaft in position while permitting it to be removed if desired. The steel or other metal yoke 9 is provided at its center with an attached projecting screw 13 for the attachment of a hard wood handle 14, which is provided with an attached ferrule 15. The screw 13 is engaged with the handle and is provided with a screw-threaded shank 16 screwed into a socket 17 at the center of the yoke 9, whereby it can be readily removed and replaced if desired. To more securely connect the hard wood handle 14 to the screw 13, I preferably use a transverse locking pin 18, passing through the ferrule, handle, and screw.

In the example illustrated in the drawings the wooden disk-heads are each composed of three distinct layers of wood, but a greater number of layers may be employed if desired.

The construction of the cylinder 1 of light wood with compound wooden disk-heads, in

connection with the yoke, removable shaft, and hard wood handle, produces a paper smoothing and applying device which is light in weight, substantial in construction, and very efficient in operation.

The tonguing and grooving together of the cylinder and the disk-heads provide very simple and efficient means for applying separate wooden heads to the ends of the cylinder to protect such ends and make the roller more durable and desirable in use.

The improved roller or paper smoothing and applying device is particularly designed for paper hangers in papering walls and ceilings, but it may be used for other purposes without affecting the spirit of my invention.

Having thus described my invention, what I claim is—

1. A paper hanger's roller, consisting of a hollow cylinder having an annular projecting tongue at each end, disk-heads provided with inserted bushings and annular grooves into which the annular tongues of the cylinder extend, a through-shaft projecting at its ends from the disk-heads, and a yoke secured to the projecting ends of the shaft and provided with a handle, substantially as described.

2. A paper hanger's roller, consisting of a hollow cylinder having an annular project-

ing tongue at each end, disk-heads provided with inserted bushings and annular grooves and each formed of layers of wood with the grain running crosswise, a through-shaft extending through the cylinder and bushings and projecting from the disk-heads, and a yoke secured to the projecting ends of the shaft and provided with a central handle, substantially as described.

3. A paper hanger's roller, consisting of a hollow cylinder having an annular projecting tongue at each end, disk-heads provided with inserted bushings and annular grooves into which the annular tongues of the cylinder extend, a through-shaft extending through the cylinder and bushings and projecting from the disk-heads, a yoke having parallel arms secured to the projecting ends of the shaft and provided at its center with an attached projecting screw, and a hard wood handle on said screw, substantially as and for the purposes described.

In testimony whereof I have hereunto set my hand and affixed my seal in presence of two subscribing witnesses.

WILLIAM JONES. [L. s.]

Witnesses:

J. T. W. McLAUGHLIN,
C. BOLLINGER.