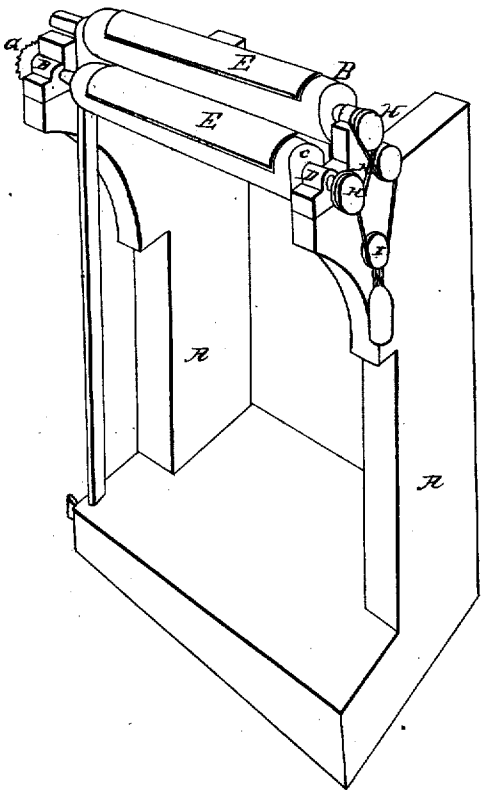
X4475

W. Janes.

Making Store-Pipe, &c,

Patented June 19, 1826





N. PETERS, PHOTO-LITHOGRAPHER, WASHINGTON, D. C.

X0004475 June 19 1826 75

Walter Jones

Rollers Patent. Dated June 19. 1826.

The schedule referred to in these Letters Patent and making part of the same containing a description in the words of the said Walter Jones himself of his improvement in the machine for bending tire for carriage and other wheels, metallic bands and hoops of all discriptions, sheet pipe, factory cans, tire work, &c.

This invention consists in producing a uniform curve of any diameter to tire for carriage and other wheels, metallic bands and hoops of all discriptions; sheet pipes for factory cans, tire work &c. by means of three rollers of suitable length, diameter, and shape, to perform the work required.

These rollers are placed in a suitable frame two of which have different bearings as herein after described; the third or upper roller to be placed perpendicularly in the centre between the other two in moveable boxes, operated by wedges or screws, bearing it nearer to, or removing it further from the other two rollers, and being made fast at the proper distance, is put in motion by any sufficient power when the article to be bent is introduced & drawn between them & receive the curve required.

I first operated the machine with the rollers being placed between the posts or stands, containing the moveable boxes that support the upper roller which properties may be continued; but as in many cases it would be difficult to disengage the article bent, from the machine without removing the upper roller as an improvement, I have placed the two bottom rollers at one side of the said posts or stands on bearings having different boxes which will admit of the rollers being placed nearer to, or further from, each other, as the nature of the work may require. To prevent the upper roller from springing it has at the end where the operation is performed, a gudgeon on which is placed a clasp passing to the bottom of the frame, and made fast by a wedge or screw, which clasp is to be removed and replaced at each at each article bent, if required. The rollers being thus situated, the articles may

be slipped off at their ends, and any number of like bands introduced receive the same curves and removed in a similar manner, without any alteration of the upper roller. The shape of the rollers must correspond to that of the article to be bent, whether of a cylindrical or conical form; & so placed that their surfaces, at the nearest approach, shall be parallel to each other. ——— In bending sleeve pipes and other articles requisite to be locked, the locks must be formed previous to the operation; and one part of the lock introduced into a groove in one of the bottom rollers as in this case it will be necessary that each roller have grooves lengthwise to admit the parts to be locked beneath their surface, while in the act of bending; and should not the other part of the lock happen to meet the groove in the upper roller, the motion of the bottom rollers together with the article may be checked by means of a ratchet wheel and dog, and the upper roller slid round until that part of the lock will fall directly in the groove. And in bending tin ware, which is joined upon one edge the rollers should have corresponding grooves around them to admit the projecting part beneath their surface.

In bending tin &c the bottom rollers in order to assist in drawing in the article to be bent, may receive motion from the upper roller by means of a band passing over the upper roller between and under the other two, and finally over a pulley which is regulated by a weight or other power, in order to produce a proper tension.

The rollers of this machine may be placed in a horizontal or vertical position, and varied in size and proportion as judgment or fancy may dictate but however placed or varied, still their application to the above specified purpose, is what I claim as my discovery and invention.

Witnesses
O. Holt.
Sehabod Bulkley.

Walter Lanes. Patent
Tire Bending
Machine
June 19th 1826

Ent.
Ch. Off.

(780 words)

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