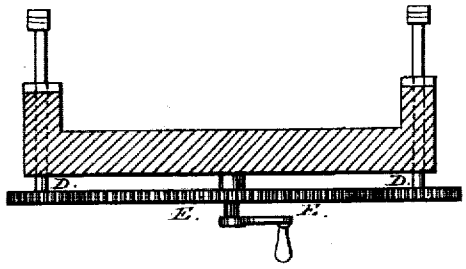
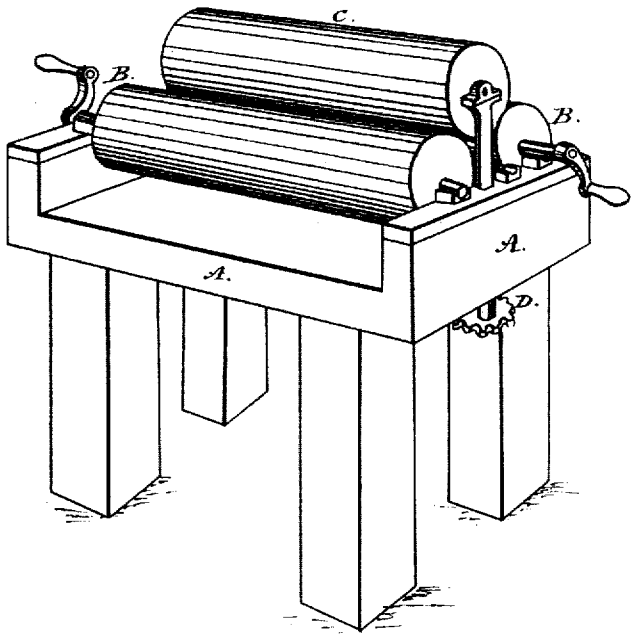
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W. Janes.

Bending Tires, &c.

Patented Jul. 14, 1847.





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

X0004819

June 14 1827

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Walter Lanes

Letters Patent

The schedule referred to in these Letters Patent and making part of the same containing a description of the nature of the said Walter Lanes Invention of his improvement in the Machine for bending hinges for carriages & other articles and also the manner in which the same is to be performed is as follows &c

This invention is an improvement in a machine already patented for the purposes above specified and this improvement consists in elevating or lowering the third or upper roller so as to produce any curve required keeping it at all times parallel with the other two rollers which is effected by the machinery hereinafter described.

The machine consists of a bench or platform of plank supported by four legs one at each side of this bench or piece of plank is placed edgewise, at the exact distance of the length of the rollers to be used and of sufficient width and thickness to resist any strain that may be applied in use. On the upper edges of this plank several indents or half boxes are made in plates of iron supported by them and the whole bolted through to the bench by four screw bolts. The rollers having each a crank are placed across where gudgeons work in the indents or half boxes at any required distance from the centre so that one crank may be on each side. The third or upper roller which lies chiefly over the centre and parallel with the other two is supported by its gudgeons in boxes of the screw bolts which pass perpendicularly down through the ends of the side planks and receive nuts on their lower ends. The screw nuts are placed equal pitches and are worked by a centre wheel which is operated by a crank and serves to raise or lower the upper roller so as to give position to any particular curve.

This wheel the pinions & nuts are supported upon the bottom of the bench by a plate; with the wheel pinions nuts and boxes screw bolts on which the nuts play constitute the principal parts of the improvement

Witnesses { Thos. E. Preston &c
Jno. Thos. Lanes }

Walter Lanes