C. HUGHES.

MACHINE FOR STRAIGHTENING AND PAINTING BALE HOOPS.

No. 30,322. Patented Oct. 9, 1860.

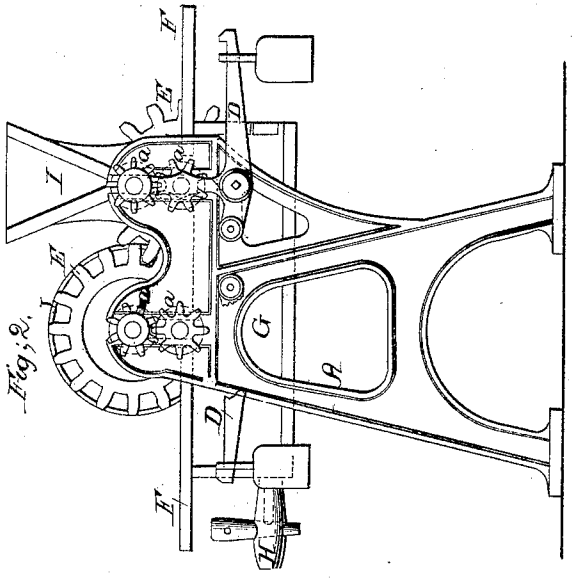


Fig. 2.

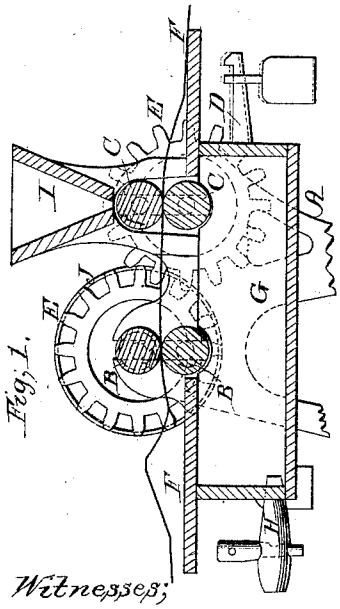


Fig. 1.

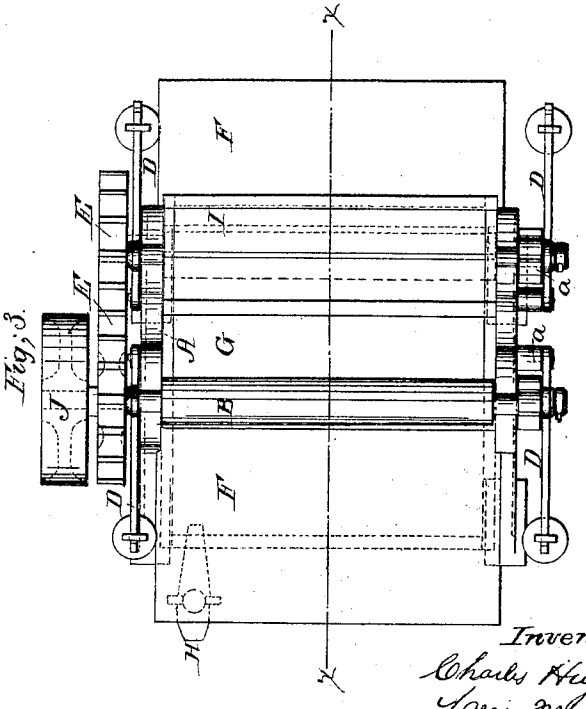


Fig. 3.

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UNITED STATES PATENT OFFICE.

CHARLES HUGHES, OF NEW ORLEANS, LOUISIANA.

MACHINE FOR STRAIGHTENING BALE-HOOPS, &c.

Specification of Letters Patent No. 30,322, dated October 9, 1860.

To all whom it may concern:

Be it known that I, CHARLES HUGHES, of New Orleans, in the parish of Orleans and State of Louisiana, have invented a new and useful Machine for Straightening and Painting Metal Bale-Hoops; and I do hereby declare that the following is a full, clear, and exact description of the same, reference being had to the annexed drawings, making a part of this specification, in which—

Figure 1 is a side sectional view of my invention taken in the line *x*, *x*, Fig. 3. Fig. 2, a side elevation of the same. Fig. 3, a plan or top view of the same.

Similar letters of reference indicate corresponding parts in the several figures.

It is essential that metal hoops be made as straight as possible in order to facilitate their application to the bale as well as to facilitate the adjustment thereto of the locks or fastenings by which their ends are connected together, and it is also essential that the hoops be painted to prevent oxidation. By my invention the above mentioned results may be obtained with but a slight expense and in a very expeditious and perfect manner.

To enable those skilled in the art to fully understand and construct my invention I will proceed to describe it.

A, is a framing which may be supported in any suitable way to support two pairs of rollers B, C, the rollers of each pair being placed one over the other in the same plane and connected at one end by gears *a*, as shown in Figs. 2, and 3. The upper roller of each pair has a loaded lever D, connected to its axes at each end, and the upper rollers of the two pairs are connected by gears E, at the end opposite to those where the gears *a*, are attached, see Fig. 3.

F, F, are two horizontal platforms which are placed at the outer side of each lower roller of the two pairs B, C, as shown clearly in Fig. 1.

G, is a box which is placed in the framing A, below the two pairs of rollers B, C. This box is provided with a faucet H, near its bottom. I, is a paint trough which is placed directly over the upper roller C. This trough extends the whole length of the roller C, as shown in Fig. 3.

The rollers B, may be of metal at least that would be the preferable material. The rollers C, may be of wood and if necessary covered with felt or other fibrous material.

The operation is as follows: The two pairs of rollers B, C, are rotated in the direction indicated by the arrows, power being applied to a pulley J, attached to the axis of the upper roller B. The trough I, is supplied with paint of any suitable kind and as the rollers rotate the hoops are passed between the rollers B, C, the former straightening them and the latter covering them with paint. The rollers C, are supplied with paint from the box I, and the drip or surplus passes down into the box G, from which it may be drawn for future use through faucet H. The upper rollers B, C, in consequence of having loaded levers D, attached to their axes, are allowed to give or yield according to the thickness of the hoops.

This invention has been practically tested and has been found to operate rapidly and well. It may be manufactured at a small cost and there are no parts liable to become deranged by use.

I do not claim broadly the employment or use of rollers for straightening or rolling iron for such device is in common use for analogous purposes; but

I do claim as new and desire to secure by Letters Patent—

The arrangement of the rollers B, B, C, C and platforms F, F with the paint trough I and drip box G as and for the purposes herein shown and described.

CHARLES HUGHES.

Witnesses:
E. K. BRYANT,
JOHN ARMSTRONG.