(No Model.)

C. HOFFMANN.

MACHINE FOR STRIPING PAILS, TUBS, &c.

No. 290,329. Patented Dec. 18, 1883.

Fig. 1.

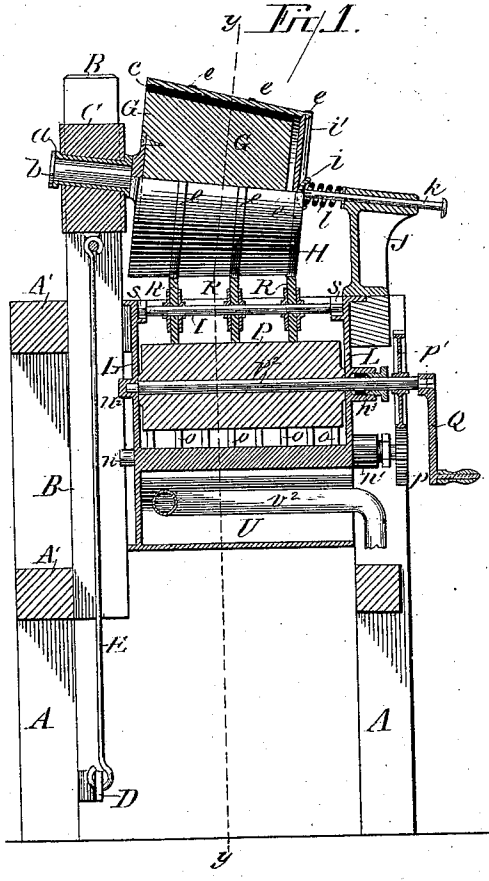


Fig. 2.

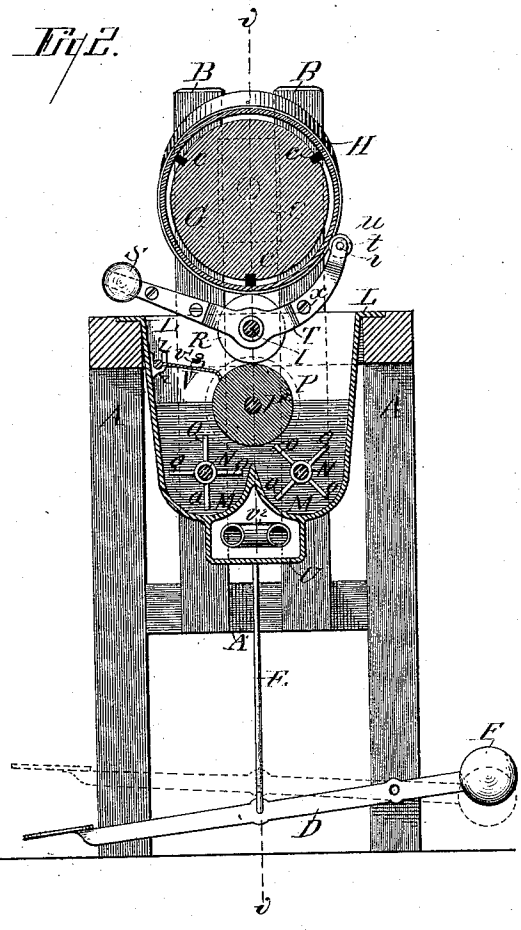
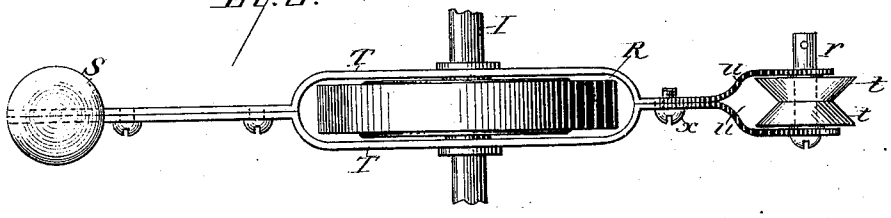


Fig. 3.



Witnesses:
E. C. Spencer
M. Naumheimer

Inventor:
Charles Hoffmann
by Stout & Underwood
Attorneys.

N. PETERS, Photo-Lithographer, Washington, D. C.

UNITED STATES PATENT OFFICE.

CHARLES HOFFMANN, OF MILWAUKEE, WISCONSIN.

MACHINE FOR STRIPING PAILS, TUBS, &c.

SPECIFICATION forming part of Letters Patent No. 290,329, dated December 18, 1883.

Application filed October 18, 1883. (No model.)

To all whom it may concern:

Be it known that I, CHARLES HOFFMANN, of Milwaukee, in the county of Milwaukee, and in the State of Wisconsin, have invented certain new and useful Improvements in Machines for Striping Pails, Tubs, &c.; and I do hereby declare that the following is a full, clear, and exact description thereof.

My invention relates to pail-stripers, and will be fully described hereinafter.

In the drawings, Figure 1 is a vertical section of my improved pail-striper through its center. Fig. 2 is a vertical section of same on line *y y* of Fig. 1; and Fig. 3 is a top view of one of the striper-disks.

A is the frame, to the rear cross-pieces, A′ A′, of which are bolted the standards B B. A flanged block, C, is adapted to slide down between said standards B B, as a pedal-lever, D, connected to said block by rod E, is depressed by the foot of the operator.

F is a weight put on end of said lever D to keep said block C up in its position to receive the pail H. Said block C carries a bearing-box, *a*, for the spindle *b* of a chuck, G, made of a form and size to almost fill said pail H, which is maintained in its place on said chuck G by means of cushions *c c c*, of any suitable elastic material, partly embedded in slots formed in the periphery of said chuck, but projecting enough out to sufficiently press against the inside face of the pail-staves. Said chuck G is held in said bearing-box *a* on block C in a downward inclined position to match with the sloping surface of said pail H, so that its hoops *e e e* may present their face in a line parallel to the rim of the striper-disks R R on shaft I. On top front rail of said frame A is fastened a bracket, J, which has a bearing for the spindle-shaft *k*, free to revolve in same on the line of and true with said chuck G. Said spindle *k* is provided with a cap, *i*, on its inside end, and between said cap *i* and the bearing-bracket J is mounted a coil-spring, *l*, designed to press said cap *i* against the bottom of the pail after the bottom edge, *i′*, of said pail has depressed said spring *l* as it slipped over the sloping face of said cap *i*.

L is the paint-pot, the bottom of which forms two troughs, M M. Bearing-studs *n n* and stuffing-boxes *n′ n′* are formed in the ends of said troughs for shafts N N, along which are fastened the paint-stirring arms *o o o o o*, and which are rotated by means of pinions *p p*, keyed on their front ends. Said pinions *p p* mesh with a cogged wheel, *p′*, that is keyed on shaft p^2 of feed-roller P. Said shaft p^2, being held in bearing-stud n^2 and stuffing-box n^3, formed in ends of said paint-pot L, is revolved either by a pulley or by the hand-crank Q.

R R R are the striper-disks, made of any suitable elastic material and freely mounted on shaft I, which is supported in open bearing-studs *s s* in the end edge of said paint-pot L. They are revolved by the feed-roller P, from which they take the paint. Their motion is in turn imparted to the pail H, along the hoops *e e e e* of which they are guided by two beveled separable disks, *t t*, mounted on the clamping ends *u* of the flat levers T T, said levers T T being fulcrumed on the striper-shaft I on each side of the striping-disks R R, and their rear ends closing face to face in a slotted weight, S. The pin *r*, upon which said beveled disks *t t* revolve, is long enough to allow of said disks *t t* following the edges of the hoops *e e e*, whatever may be the width of said hoops, the same being thereto adjusted by the screw *x*.

In bracket *z*, inside of the paint-pot L, is hinged the paint-scraper V, the slightly-curved edge of which may be made to press more or less on the surface of the feed-roller P, as a weight, *v′*, is placed nearer to or farther from said roller.

U is a chamber, in which a coil of pipe, v^2, circulates steam, hot air, or water, to keep the paint of the requisite limpidity in cold weather.

As may be easily understood from the above description, the pail H being pushed over the cushioned chuck G, the weighted lever D is depressed and brings down the chuck-bearing block C, when the pail H rests with its hoops *e e e* on the striping-disks R R R. As the feed-roller P is revolved the paint is transferred from its scraped surface to the rim of the elastic stripers R R R, which transmits said paint to the hoops *e e e* as the friction of said disks revolves the pail with the chuck G against the back rest spindle, *k*. The beveled rim of the guide-rollers *t t*, being pressed up

against the edges of the pail-hoops *e e* by the weight S on the rear end of the flexible levers T T, will naturally keep the striping-disks R R in true line with said hoops. For wider hoops than are commonly used on pails, a few turns of the screw *x* will allow of the side-play of said flexible levers T T, and of the adjustment of said guide-rollers *t t* to the width of said hoops. The striping-disks R R may be taken off from the paint-pot L and replaced therein by a suitable roller, whereby the paint may be applied in same manner to the staves of the pail, if the quantity of such work does not warrant the use of more than one single machine. Otherwise, the striping of the hoops could be made on one machine, and the painting of the stave on another, my invention applying to both operations equally well.

It must be understood, also, that I do not confine myself to the special form described above. Said form can be varied according to the form, size, and material of the articles to be striped and painted besides pails—such as kegs, barrels, tubs, jars, cans, and generally all vessels of cylindrical form on which paint has to be applied.

Having thus described my invention, what I claim as new, and desire to secure by Letters Patent, is—

1. A pail-striper having a vertically-sliding block to bear a cushioned chuck, which, by means of a weighted foot-lever connected to said bearing-block, is adapted to bring the hoops of a pail set over said chuck in parallel contact with the rim of elastic striping-disks that are fed with paint, as they are revolved, by a feed-roller rotated in a paint-pot, whereby said pail-hoops are painted as the pail revolves with said disks, substantially as set forth.

2. In a pail-striper, the cushioned chuck G on sliding block C, with inclined bearing *a*, adapted to bring the sloping staves of a pail in parallel contact with the rim of the strippers, substantially as set forth.

3. In a pail-striper, the spindle-shaft *k*, mounted on bracket J, and having cap *i* and coil-spring *l*, in combination with chuck G, substantially as shown and described, and for the purpose set forth.

4. In a pail-striper, standards B B, flanged sliding block C, rod E, and weighted foot-lever D, in combination with the pail-bearing chuck G, substantially as shown and described, and for the purpose set forth.

5. In a pail-striper, the elastic striping-disks R R R, mounted on shaft I, in combination with levers T T, guide-rollers *t t*, weight S, and adjusting-screw *x*, substantially as shown and described, and for the purpose set forth.

6. In a pail-striper, the feed-roller P, shaft *p*, cogged wheel *p'*, and crank Q, in combination with striping-disks R R R, substantially as shown and described, and for the purpose set forth.

7. In a pail-striper, the paint-pot L, having troughs M M, bearing-studs *n*, and stuffing-boxes *n'*, in combination with paint-agitating arms *o o o o* on shafts N N, and pinions *p p*, substantially as shown and described, and for the purpose set forth.

8. In a pail-striper, the paint-scraper V, hinged on bracket *z* of paint-pot L, and having an adjustable weight, *v'*, in combination with the feed-roller P, substantially as shown and described, and for the purpose set forth.

9. In a pail-striper, the chamber U, under paint-pot L, in combination with the coil-pipe v^2, substantially as shown and described, and for the purpose set forth.

In testimony that I claim the foregoing I have hereunto set my hand, at Milwaukee, in the county of Milwaukee and State of Wisconsin, in the presence of two witnesses.

CHARLES HOFFMANN.

Witnesses:
S. S. STOUT,
M. KAUMHEIMER.