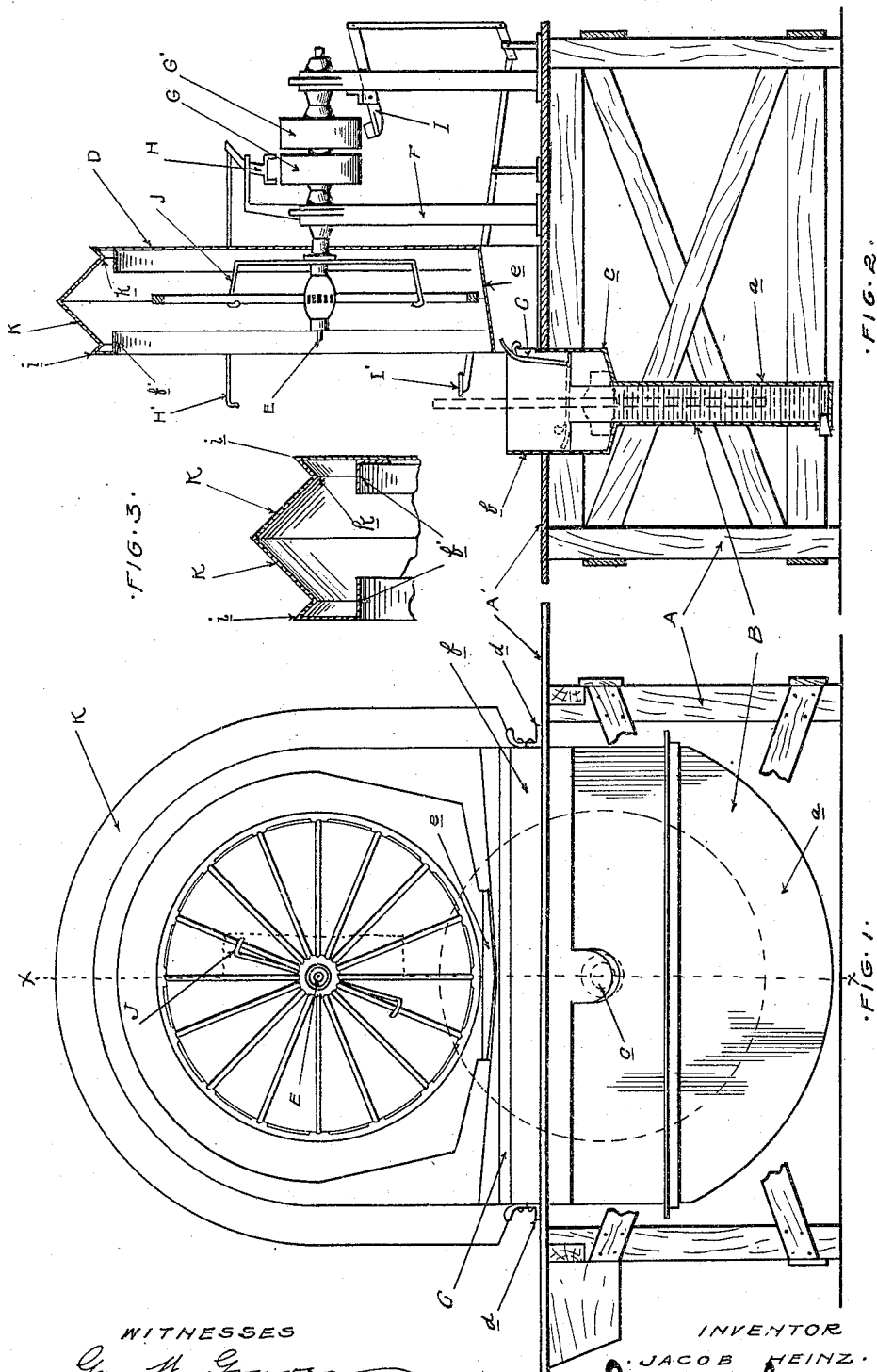


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J. HEINZ.
MACHINE FOR PAINTING WHEELS.
APPLICATION FILED JULY 30, 1904.



WITNESSES
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MACHINE FOR PAINTING WHEELS.

SPECIFICATION forming part of Letters Patent No. 783,199, dated February 21, 1905.

Application filed July 30, 1904. Serial No. 218,849.

To all whom it may concern:

Be it known that I, JACOB HEINZ, a citizen of the United States, residing at Detroit, in the county of Wayne and State of Michigan, have
5 invented certain new and useful Improvements in Machines for Painting Wheels, of which the following is a specification, reference being had therein to the accompanying drawings.

10 The invention relates to new and useful improvements in a machine for painting wheels; and it consists in the construction of a paint-well, together with a housing adjacent thereto, the wheel being adapted to be revolved in
15 the paint-well and then to be placed in the housing and rapidly rotated to throw off the extra paint, which will flow back into the well. The well is made detachable, so that different wells having different colors may be arranged
20 in proper relation to the housing, and the well is so constructed that a minimum of paint may be issued in the well.

The invention further consists in the construction, arrangement, and combination of
25 the various parts, as more fully hereinafter described, and particularly pointed out in the claims.

In the drawings, Figure 1 is a front elevation of my machine with the front members
30 broken away to show the construction more clearly. Fig. 2 is a vertical central section on line *xx* of Fig. 1, and Fig. 3 is an enlarged section of the paint-collector housing.

A represents a suitable frame upon which
35 my device is supported, having a floor *A'*. This floor is provided with an aperture in which is located the paint-well *B*. The paint-well *B* consists of a narrow paint-receptacle *a* and the top *b*, which is preferably wider than the
40 paint-receptacle. At the upper end of the paint-receptacle and at the middle I form on opposite sides the hub-chambers *c*. The ends of the paint-well are provided with suitable lugs *d*, which rest upon a floor *A'* of the frame-
45 work and support the well in proper position. *C* is a cover for the paint-receptacle, hinged in the upper portion *b* thereof and adapted to be turned down in the position shown in

dotted lines in Fig. 2, so as to close the top of the paint-receptacle *a* or be turned up into
50 the position shown in full lines in Fig. 2 beneath the inclined bottom *e* of the housing *D*. By making the paint-receptacle *a* only slightly wider than the width of the spokes and felly of the wheel which is to be painted
55 I am able to fill the well or receptacle by the use of a comparatively small quantity of paint, while the upper portion is enlarged, so as to permit of ready access thereto, and the hub-chambers *c* are adapted to receive the
60 ends of the hubs of the wheel while it is being revolved. By making the paint receptacle or well detachable it is obvious that where different-color wheels are to be painted
65 in succession after painting the first lot the well may be removed and another one placed in position and that this can be readily and quickly done, and by having a cover for the
70 well the dirt and dust may not get into it while it is being stored and while other wells are being employed. As soon as the wheel
is painted, the operator rotating the same by hand, it is lifted out of the well and placed
upon a shaft *E*, which is supported upon suitable standards *F* and provided with drive
75 mechanism. I have shown in this case a loose pulley *G* and the tight pulley *G'*, with a suitable bolt-shifter *H*, having a handle *H'*, leading to the front of the machine. I have also shown the brake *I* operated by the foot-lever
80 *I'*, so that the operator may stop the rotation of the shaft when the paint has been drained from the wheel in the housing *D*. The shaft
E within the housing is provided with suitable means for engaging the wheel—such, for
85 instance, as the hooked radial arms *J*, the hooks thereon being adapted to be engaged with the spokes as the shaft is rotated. The housing *D* has the double-inclined side walls *K*, which lead down to the inclined bottom *e*.
90 I may and preferably do construct at the outer edges of these inclined walls the troughs *l*, which form at the junction of the troughs and the inclined walls the point or dripping edge
l, and beneath this point or dripping edge *l*
95 may and preferably do provide drainage-

flanges b' , which terminate above the floor or bottom e of the housing.

It will be obvious from the description given that when the operator slides the wheel on the shaft E and shifts the belt to the top of the pulley G' the shaft will be rapidly rotated, and with it the wheel, and the surplus paint thereon will be thrown off and against the double-inclined side walls K of the housing, whence it will run down onto the floor e of the housing and thence back into the receptacle B . The cover C in this case receives the paint as it falls from the floor e and guides it into the well or receptacle.

15 What I claim as my invention is—

1. The combination of a shaft upon which a wheel is adapted to be supported, of a collector-casing about the shaft having the inverted- V -shaped outer wall, the dripping-shoulders k thereon, and the flanges l beneath the dripping-shoulders.

2. The combination of a collector-casing, of the shaft C projecting therethrough and having means for driving the same, radial arms J on the shaft, and the hooks J on said arms substantially as and for the purpose described.

3. In a wheel-painting device, the combination of a detachable paint-receptacle, a housing supported adjacent to the receptacle and draining therein, said housing being adapted to catch the paint thrown off from a revolving wheel and to carry said paint laterally out of the plane of said wheel, and means for supporting a wheel in the housing free from the paint in the receptacle, and also in the receptacle to dip hub deep into the paint therein.

4. In a painting-machine for wheels, the combination of a housing, a shaft therein adapted to support a wheel, means for rotating the shaft, the housing being adapted to receive the paint thrown off the wheel during the rotation, a detachable paint-well into which the housing drains, and a support in said well for the wheels during the painting thereof in the well.

5. In a wheel-painting machine, the combination of a paint-collecting housing, means

for supporting and rotating the wheel therein, a detachable well below the housing and into which it is adapted to drain, and a cover for said well.

6. In a wheel-painting device, the combination of a wheel-support, and a housing about the support comprising the oppositely-inclined outer walls above the support, whereby the paint thrown thereon by a revolving wheel is caused to flow laterally out of the plane of a wheel on the support.

7. In a wheel-painting device, the combination of a wheel-support, a housing about the support adapted to catch the paint thrown off by a revolving wheel, comprising the double-inclined walls K , and inwardly-extending flanges at the outer edges of such walls forming a gutter or guide for the paint, such flanges extending around the upper portion of the housing, whereby the dripping of the paint from the housing in the wheel is lessened or prevented.

8. In a wheel-painting device, the combination of a base or frame, a housing supported thereon, adapted to catch the paint thrown from a revolving wheel, a paint-receptacle detachably supported below the housing and into which the paint will drain, and means for supporting the wheel to dip hub deep into the receptacle and in the housing free from the paint therein and out of the vertical plane of said receptacle.

9. In a wheel-painting device, the combination of a housing, having a rim adapted to catch the paint thrown from a revolving wheel, the housing having an opening within the rim to permit the lateral insertion and withdrawal of a carriage-wheel, of a detachable paint-receptacle below the housing and into which it drains, and means for supporting a wheel hub deep in the receptacle and in the housing free from the paint therein and out of the vertical plane of said receptacle.

In testimony whereof I affix my signature in presence of two witnesses.

JACOB HEINZ.

Witnesses:

J. W. AUSTIN,
R. H. STEPHENS.