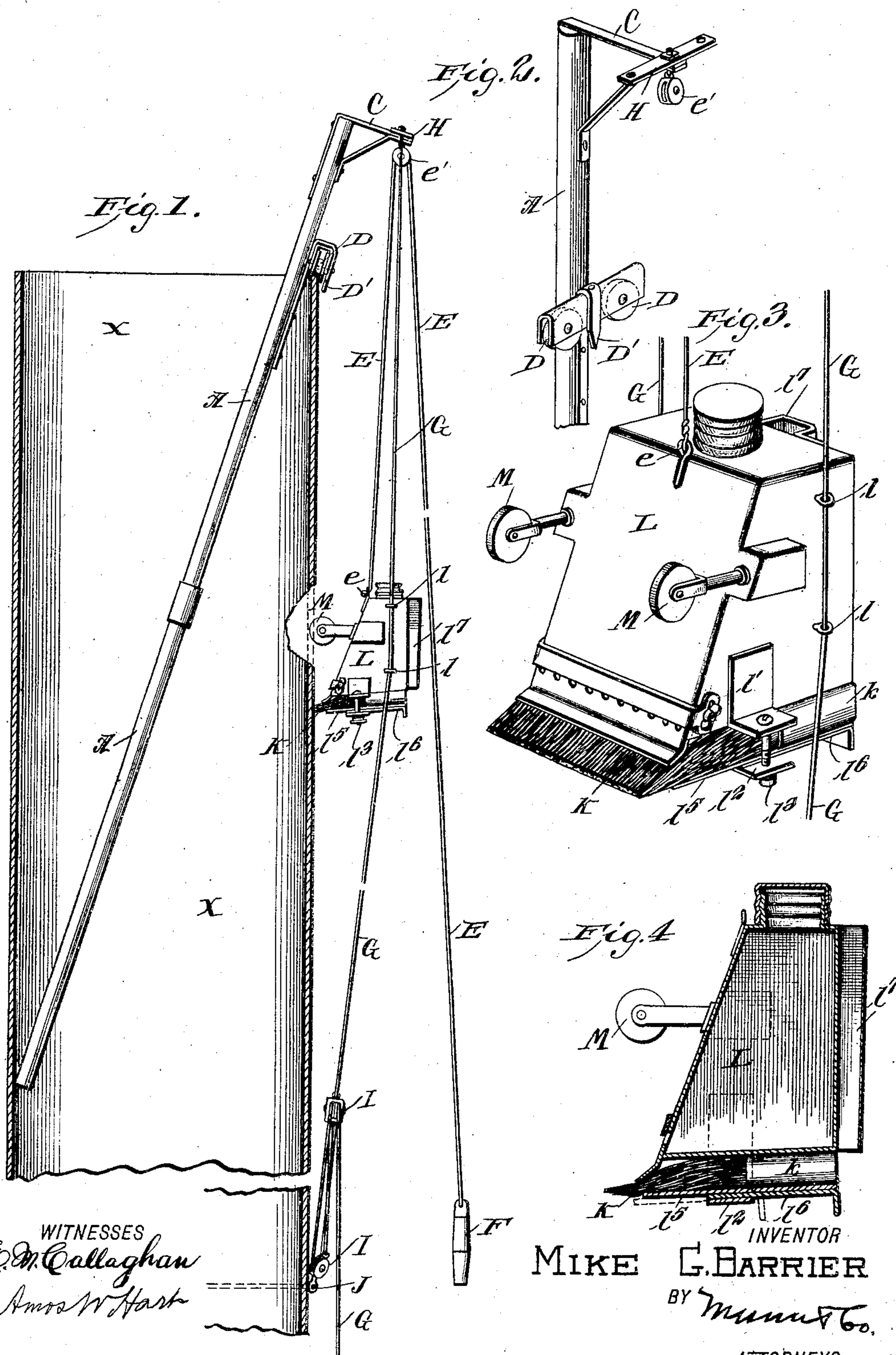


No. 880,351.

PATENTED FEB. 25, 1908.

M. G. BARRIER.
PAINTING APPARATUS.
APPLICATION FILED NOV. 22, 1907.



WITNESSES
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PAINTING APPARATUS.

No. 880,351.

Specification of Letters Patent.

Patented Feb. 25, 1908.

Application filed November 22, 1907. Serial No. 403,283.

To all whom it may concern:

Be it known that I, MIKE GRAHAM BARRIER, a citizen of the United States, and a resident of Shawnee, in the county of Pottawatomie, State of Oklahoma, have invented certain new and useful Improvements in Painting Apparatus, of which the following is a specification.

My invention is an improvement in painting apparatus, or apparatus especially designed for painting smoke-stacks or other high stacks on the outer sides, and it is more particularly an improvement upon the machine for which I obtained Letters Patent #617,982, dated January 17, 1899.

The novel features embodying the improvements are the result of experiments and use and render the original machine practically perfect in operation.

The details of construction, arrangement, and combination of parts embodying the invention are as hereinafter described, and illustrated in the accompanying drawings in which

Figure 1 is a vertical section of a smoke-stack with my invention applied thereto as in use. Fig. 2 is a perspective view of the upper portion of a sectional rod from which the painting machine proper is suspended. Fig. 3 is a perspective view of a paint box or paint holder constituting the painting machine proper. Fig. 4 is a vertical central section of the device shown in Fig. 3.

A paint-box, or paint-holder, L, is suspended from a bracket C attached to the upper end of the sectional rod A which is arranged within the stack X and supported on the upper edge of the same by means of pulleys D, which are journaled in a bracket that includes a hook D'. The pulleys are grooved circumferentially and thus adapted to run on the edge of the stack X as shown in Fig. 1. The sections of the rod A are detachably connected so that the rod may be extended to any height required to project the bracket C above the stack. The rope E, which is attached at e in the front upper portion of the paint-holder L, passes over the pulley e' connected with the bracket C and extends downward, a weight F being attached to its lower end. The paint-holder L is provided with side guides l through which run guide-ropes G the same being attached to the ends of the arms H forming an attachment of the bracket C. The lower ends of the guide-ropes J are connected by block-

and-tackle I with a rope G that passes around the lower portion of the stack.

The face of the paint-holder L slopes backward, and a brush K is held in the metal band k and secured to, and beneath the bottom of, the said paint holder. It is secured in place adjustably by means of clamps composed of brackets l', a transverse bottom bar l'', and screws l'''. A plate l''' forms the bottom of the paint-holder upon which the brush rests. A sliding plate l'''' having a pendent flange which has its outer end arranged between the bottom bar l'', and the plate l''', and is adapted for adjustment forward and back. It may thus be adjusted so as to project beyond the front edge of the plate l''', as indicated by dotted lines, whereby the projecting portion of the brush proper K may be supported and stiffened more or less as may be required.

By adjustment of the screws l''' it is obvious the bottom bar l'', and the plate l''' resting thereon may be adjusted higher or lower as required to vary the discharge of paint from the interior of the holder L.

The paint-holder L is held out of contact with the smoke-stack or other surface being painted, by means of rollers M, which are journaled in arms secured to the sides and upper portion of the paint-holder L, so that they run in contact with the smoke-stack.

It will be seen that by attaching the hoisting rope, or so called "long rope" E, to the top of the sloping face of the paint-holder L, the upper portion of the latter tends toward the stack and that contact of the same with the stack is prevented by the rollers, and these in turn serve to prevent the brush proper from pressing too hard against the stack so that the brush is protected from excess wear. It is apparent that such pressure may, however, be regulated by the guide-ropes G, and the adjustable block-and-tackle I. It will be further seen that even if the stack be out of plumb, or somewhat inclined, the guide-ropes G will still serve to hold the paint-holder in the position required to work the brush K in contact with the stack. The weight F counterbalances the paint-holder L, and the rope E attached thereto serves to raise or lower the paint-holder as required in the painting operation.

In suspending the apparatus from the stack, the sectional rod A is extended by applying sections to the lower end until the hook D' passes up beyond the top of the stack and then engage the same; the weight F is then

tied to the long rope E, and one end of a guide-rope G is also tied to the weight; then the other end of the long rope E is pulled until the weight passes out through the top of the stack; then upon giving the rope slack, the weight will pull the attached guide-rope up to and over the top of the stack so that it will fall down the outside of the stack. The operation is then repeated for the other guide-rope, and the two guide-ropes are next passed through the guide eyes e, on the paint-holder L and attached by block-and-tackle I to the rope J that binds around the stack. The apparatus is then ready to be operated for painting the stack. The rollers D connected with the upper end of the sectional rod A enable the apparatus to be carried laterally around the stack by simply pushing or pulling the rod A, which is a great convenience.

In my former invention it was requisite to raise the rod in order to adjust the paint-holder L to a new place or position.

It is obvious that my invention is applicable for painting walls, roofs, and other inclined surfaces, its capacity for such work being mainly due to the provision of the rollers M which support the paint-box in the required manner while being drawn over such surfaces.

The back of the paint-holder L is shown provided with a keeper *l'*, the same being in the nature of an elongated socket adapted to receive the end of the jointed rod which may be used for raising and lowering the paint-holder L manually, for painting walls, and roofs, without the aid of the hoisting and guide apparatus described.

What I claim is:

1. A painting apparatus, comprising a paint holder proper provided with a brush, and guides attached thereto above the brush and adapted to work in contact with the surface to be painted, and means for guiding and adjusting the paint holder substantially as described.

2. The improved painting apparatus, comprising a paint holder provided with a brush, guide ropes connected with the holder, the latter being adapted to run on the slide ropes, and means for adjusting the paint holder substantially as described.

3. The improved painting apparatus, comprising a paint holder proper provided with a brush, means for suspending the same, and raising and lowering it, and guide ropes slidably connected with the paint holder, and means for attaching the lower ends of said ropes to a fixed object whereby the paint holder is guided vertically and held to its work with any required degree of pressure, substantially as described.

4. The improved painting apparatus, comprising a paint holder brush having a solid face, a suspending rope attached to the upper end of said face, a brush attached to the lower end of the holder and projecting therefrom, and a device arranged near the top of the holder and adapted to bear upon the surface to be painted, and means for raising and lowering the paint holder, substantially as described.

5. In a painting apparatus of the class indicated, the paint holder provided with a brush, and rollers journaled in arms rigidly connected with the upper portion of the holder and adapted to run in contact with the surface to be painted, substantially as described.

6. The improved paint holder comprising a body portion having a keeper on the back for receiving and adjusting the device, a brush secured to the lower portion of the holder proper, and rollers attached to the front upper portion of the holder and projecting forward therefrom, as and for the purpose specified.

MIKE GRAHAM BARRIER.

Witnesses:

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