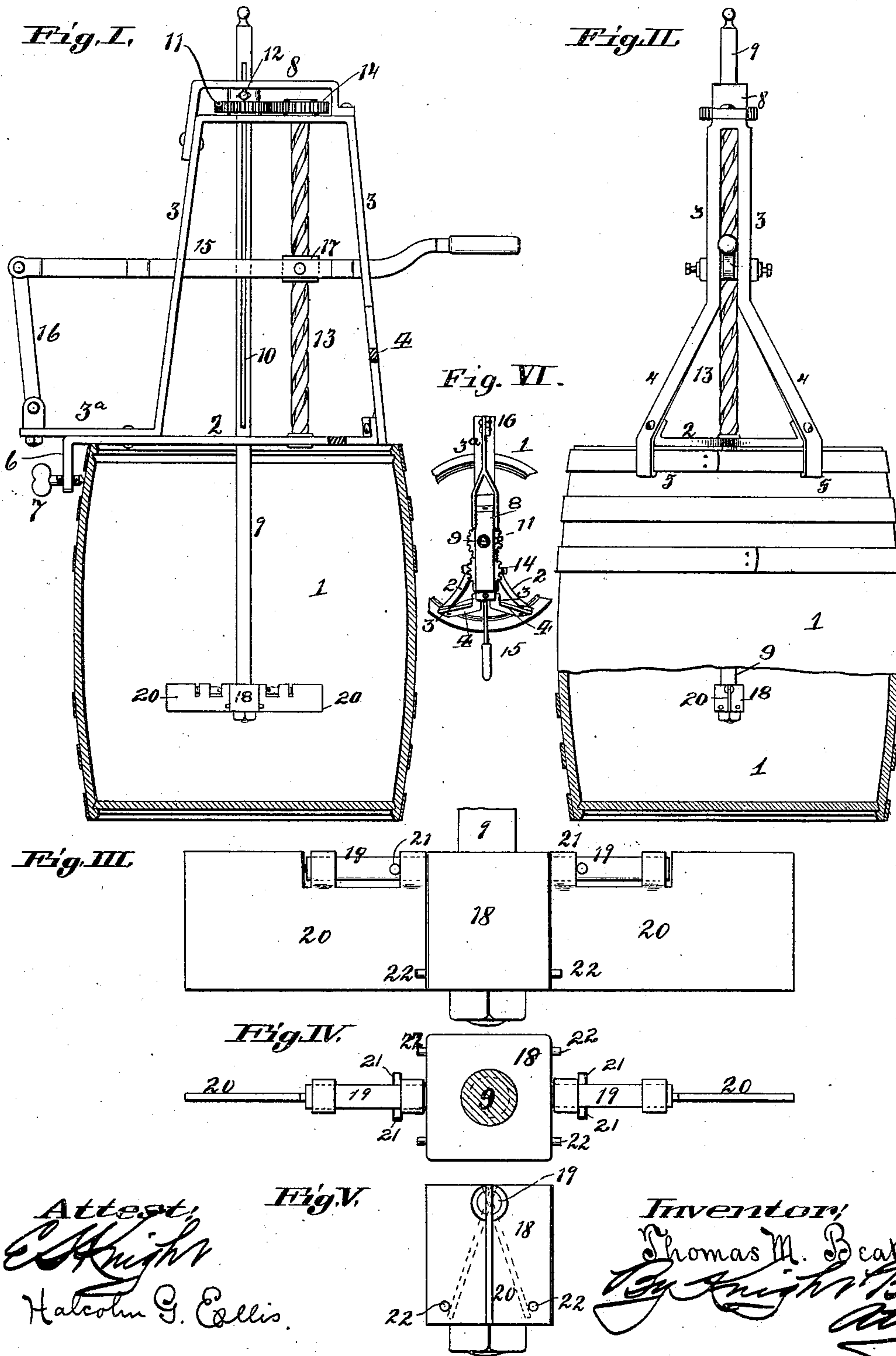


(No Model.)

T. M. BEATTY.  
PAINT MIXER.

No. 507,059.

Patented Oct. 17, 1893.



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# UNITED STATES PATENT OFFICE.

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## PAINT-MIXER.

SPECIFICATION forming part of Letters Patent No. 507,059, dated October 17, 1893.

Application filed May 22, 1893. Serial No. 475,074. (No model.)

*To all whom it may concern:*

Be it known that I, THOMAS M. BEATTY, of Quincy, in the county of Adams and State of Illinois, have invented a certain new and useful Improvement in Paint-Mixers, of which the following is a full, clear, and exact description, reference being had to the accompanying drawings, forming part of this specification.

My invention relates to a device for the thorough mixing of paint where it is especially desired to have a uniformity in the paint used; and my invention consists in features of novelty hereinafter fully described and pointed out in the claims.

Figure I is a side elevation of the mixer, and showing in vertical section the keg to which the mixer is connected. Fig. II is a front elevation with the lower end of the keg in vertical section to show the mixing paddle within the keg. Fig. III is an enlarged, detail side elevation of the mixing paddle. Fig. IV is an enlarged, detail, top view of the paddle, the paddle shaft being shown in cross-section. Fig. V is an enlarged, detail end view of the paddle. Fig. VI is a top view of the mixer on a smaller scale.

Referring to the drawings, 1 represents a keg to which I have shown my improved mixer connected.

The frame of the mixer is composed of a horizontal forked bar 2 secured to an inverted U-shaped standard 3, the standard being forked at one side, to form legs 4 with hooks 5 on their lower ends that engage under one of the hoops of the keg. The forked ends of the bar 2 give support to one side of the standard, and the opposite side of the standard is supported on the opposite end of the bar, this end being bent downward into an extension 6, provided with a thumb screw 7 by which the mixer is secured to the keg. On the upper end of the standard is secured a bar 8, leaving a space between said bar and the standard.

Passing through and fitting loosely in the bars 2 and 8 and the upper end of the standard 3 is a vertical shaft 9 provided with a longitudinal groove 10; 11 is a pinion fitting loosely on the shaft 9, the shaft being held

from turning by a set screw 12, which engages in the groove 10, from which arrangement it will be observed the shaft is caused to rotate with the pinion, but is free to be raised or lowered for the purpose of raising the mixing paddles out of the paint.

13 is a worm screw with its ends journaled in the bar 2, and standard, and provided on its upper end with a pinion 14 that meshes with the pinion 11.

15 is a handle bar connected by a link 16 to the extension 3<sup>a</sup> of the standard 3, and 17 is a boxing pivoted in the handle-bar; said boxing having an internal screw corresponding to the worm screw 13, through means of which, when the handle bar 15 is raised and lowered, the pinion 14 is rotated, which in turn rotates the pinion 11, and with it the shaft 9.

On the lower end of the shaft 9 are the mixing paddles. These are formed of a central block 18, with laterally extending arms 19 on which arms are loosely secured the paddle blades 20, held by studs 21, (see Fig. III,) they being free to swing sidewise as indicated by dotted lines in Fig. V so as to feather and limited in such movement by studs 22 on the block 18, there being obvious advantages in so hanging the blades 20 that their lower edges change from the vertical toward the horizontal, as the paddle is revolved, thus allowing the blades to pass more easily through the paint being mixed, but at the same time as thoroughly accomplishing the desired result.

I claim as my invention—

1. In a paint mixer, the combination of a frame, a vertical shaft fitting loosely in said frame, a groove in said shaft, a pinion on said shaft, provided with a set screw fitting in said groove; whereby the shaft is free for vertical movement, a worm screw and means for turning said screw, and a pinion on said worm screw engaging with said shaft pinion; substantially as and for the purpose set forth.

2. In a paint mixer, the combination of a shaft, a block secured to said shaft, studs and laterally extending arms on said block, and laterally extending blades loosely hung on said arms so as to feather, and limited in their side-wise movement by the studs; substantially as and for the purpose set forth.



3. In a paint mixer, the combination of the frame composed of a horizontal forked bar, an inverted U shaped standard, forked at one side, having hooks 5 and an extension, 6, the  
5 lateral extension 3<sup>a</sup> and the top bar 8, a vertical shaft having paddle blades swinging on a horizontal axis, a worm screw parallel with the shaft, gearing connecting the shaft and

worm-screw, a link pivoted to the lateral extension, and a handle-bar pivoted at its inner end to the link, having a boxing fitting the worm-screw, substantially as described.

THOMAS M. BEATTY.

In presence of—

JOHN M. BROWN,  
E. S. THOMAS.