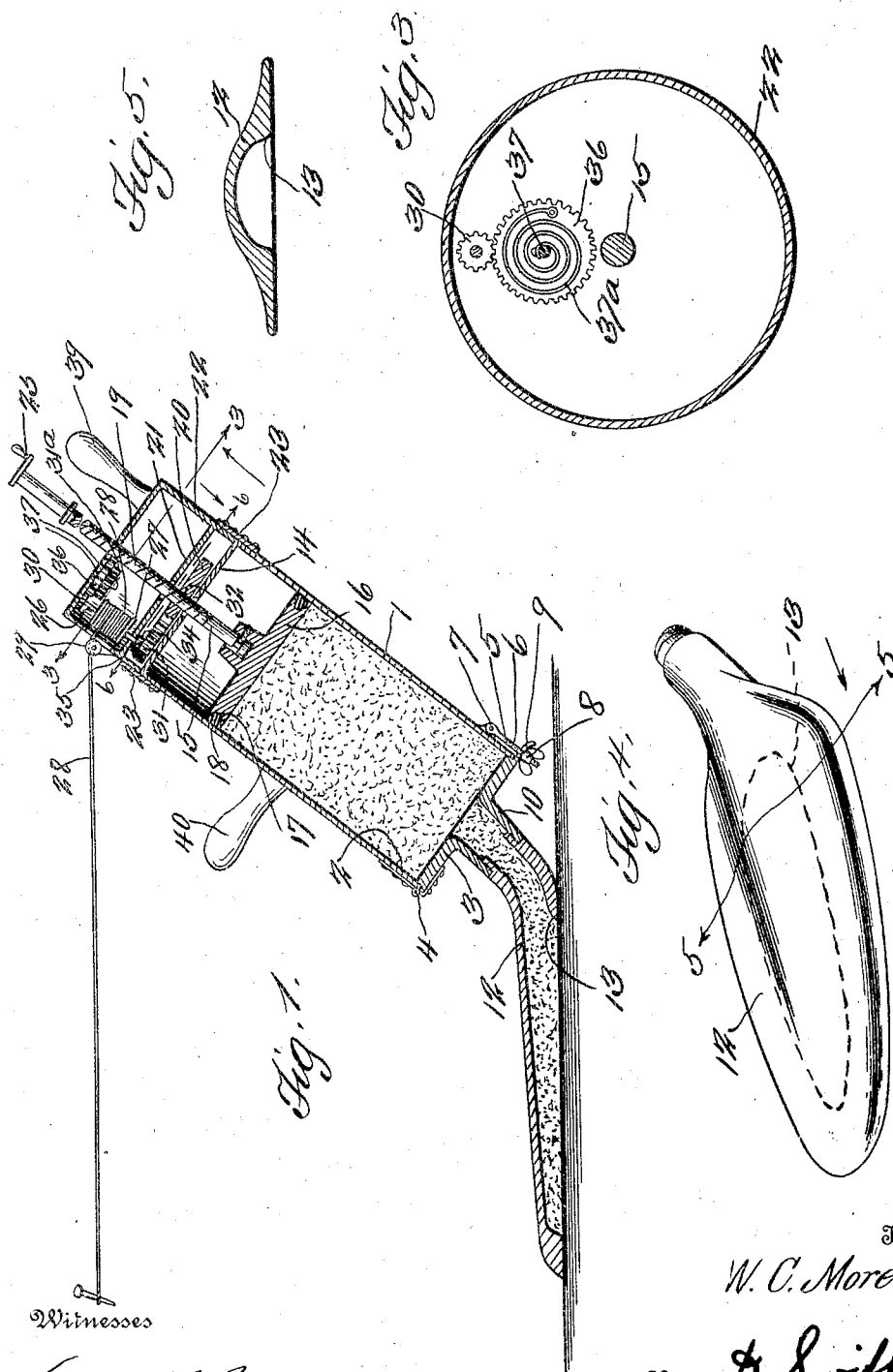


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PLASTER POINTING UP DEVICE.
APPLICATION FILED JAN. 5, 1912.

1,038,180.

Patented Sept. 10, 1912.

2 SHEETS—SHEET 1.



Witnesses

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C. E. Frothingham.

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W. C. Moreland

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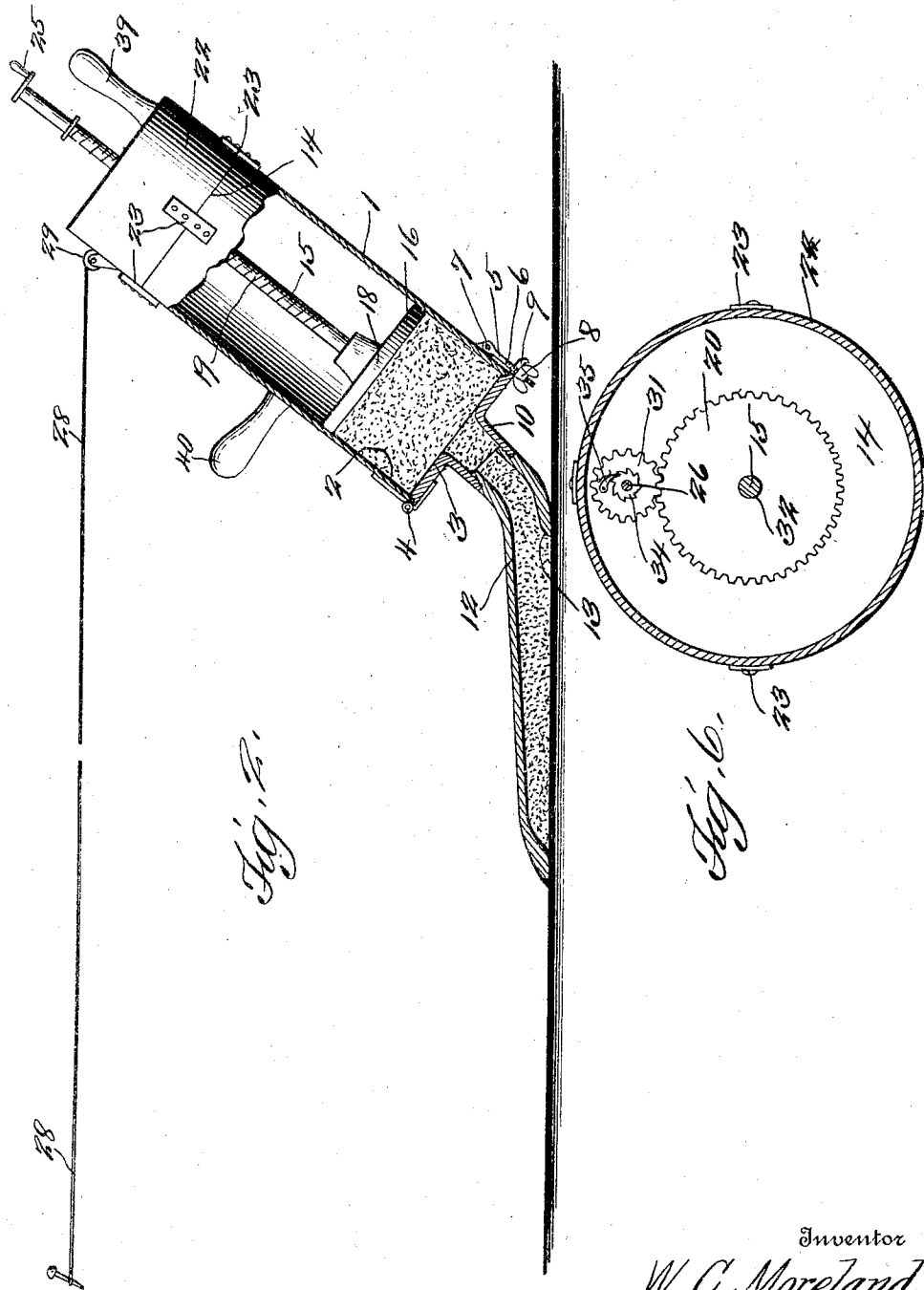
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UNITED STATES PATENT OFFICE.

WILLIAM C. MORELAND, OF CLAY CENTER, KANSAS.

PLASTER-POINTING-UP DEVICE.

1,038,180.

Specification of Letters Patent. Patented Sept. 10, 1912.

Application filed January 5, 1912. Serial No. 669,569.

To all whom it may concern:

Be it known that I, WILLIAM C. MORELAND, a citizen of the United States, residing at Clay Center, in the county of Clay and State of Kansas, have invented a new and useful Plaster-Pointing-Up Device; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same.

This invention relates to the art of plastering, and mainly pointing up and more particularly to a new and useful device for accomplishing the pointing up process.

The principal object of the invention is the provision of an improved plaster pointing up device, in which novel features of construction are involved.

The invention comprises further features and combination of parts, as hereinafter set forth, shown in the drawings and claimed.

In the drawings: Figure 1 is a sectional view of the improved device constructed in accordance with the invention, and showing the application of the same. Fig. 2 is a similar view showing the plunger of the pointing up machine in a different position. Fig. 3 is a transverse sectional view taken on line 3—3 of Fig. 1. Fig. 4 is a detail view of the pointing up trowel. Fig. 5 is a transverse sectional view through the foot or trowel 12. Fig. 6 is the sectional view on line 6—6 of Fig. 1.

Referring to the drawings 1 designates a cylinder, in which plaster or similar material is adapted to be contained. The end 2 of the cylinder is provided with a closure 3, hinged at 4, and provided with a fastening device 5. This fastening device 5 comprises a bolt 6 pivoted at 7, and provided with a wing nut 8, the bolt 7 adapted to engage the fork member 9, after which the wing nut is tightened, so as to hold the closure closed. The closure 3 is provided with a tubular extension 10, to which, at 11, is threaded the trowel or foot 12, the underface of which is constructed with an elongated opening, 13 through which the plaster or other material exits, when pointing up a crack or hole or the like. The side portions of the trowel or foot on each side of the elongated opening extend laterally, thereby providing a blade, for smoothing the material.

Extending through the end wall 14 of the cylinder is a plunger rod 15 having the

plunger 16 at one end. This plunger 16 is provided with an annular groove 17, to receive the packing 18. The plunger rod 15 is provided with rectangular threads 19, which are engaged by the gear 20. This gear 20 is held between the end wall 14 of the cylinder and the wall 21 of the supplemental cylinder 22 which is connected to the cylinder 1 by a plurality of fastening devices or plates 23 as clearly shown in Fig. 2 of the drawings. The plunger 15 also extends through the cylinder 22, and is provided with a handle 25, whereby the plunger rod may be rotated, in order to return the plunger 16 adjacent the wall 14 of the cylinder 1, that is, after the material in the cylinder 1 has been utilized.

Mounted in suitable bearings of the cylinder 22 is a shaft 26 having a reel 27, about which the wire 28 is reeled. The wire on leaving the reel passes over the pulley 29. On the ends of the shaft 26 are the gears 30 and 31. The gear 31 meshes with the gear 20, so as to impart motion thereto, and by reason of the threaded opening 32 of the gear 20, the plunger rod 15 including the plunger is moved toward the closure 3, thus forcing the plastering material out through the foot or trowel, that is, as the wire unwinds from the reel, for the reason that the end of the wire is anchored at a suitable location on the wall or other surface which is being pointed up. The gear 31 is loosely mounted on the shaft 26, there being a ratchet 34 and the spring actuated pawl 35, to cause the gear 31 to rotate with the shaft 26, when rotating in one direction, but when the wire is being wound upon the reel, the shaft 26 will rotate independent of the gear 31 the pawl slipping idly about the ratchet. The gear 30 meshes with the gear 36, on the shaft 37 to which one end of the coil spring 37* is attached, while the other end of the spring is secured to the gear 36, so that when the wire unwinds from the reel the spring is placed under tension, and when it is desired to rewind the wire on the reel, the spring imparts motion to the gear 36, which in turn rotates the gear 30, thereby rotating the shaft 26. The cylinder 22 is provided with a handle 39, while the cylinder 1 is provided with a similar handle 40.

In operation the pointing up material is placed in the cylinder 1 against the plunger 16 when it is adjacent the wall 14 of the cylinder 1. The end of the wire is then at-

tached or anchored at a certain point on the wall or other surface, as shown in Fig. 1. The trowel or foot is then placed over the crack or other opening in the wall, and the device moved in a direction from the anchoring point of the wire, with the foot or trowel still passing over the crack. As the wire unwinds from the reel the same is rotated and with it the shaft 26, which in turn rotates the gear 31, by virtue of which the gear 20 is rotated, as the gear 20 rotates the plunger rod with its plunger is moved lengthwise of the cylinder in the direction of the foot or trowel 12, thus forcing the plastic or other material therethrough, for pointing up the crack.

The invention having been set forth, what is claimed as new and useful is:—

1. In combination, a main cylinder, a supplemental cylinder connected thereto, a plunger rod extending through the cylinders including a plunger at one end operable in the main cylinder, the rod having an operated gear between the cylinders, and a mechanism having an uncoiling wire to operate the same, to actuate the gear of the plunger rod, and a trowel through which the material is forced by the plunger.

2. In combination, a main cylinder, a supplemental cylinder connected thereto, a plunger rod extending through the cylinders including a plunger at one end operable in the main cylinder, the rod having an operated gear between the cylinders, an additional gear between the cylinders and meshing with the gear of the plunger rod, a

shaft on which the additional gear rotates having a ratchet and pawl connection therewith, a reel on said shaft, a wire wound on the reel, adapted to unwind, to impart motion to the reel and shaft, and thence to the intermeshing gears, and means for causing the wire to wind on the reel without operating the additional gear, and a trowel through which the plastic or other material is forced by the plunger.

3. In combination, a main cylinder, a supplemental cylinder connected thereto, a plunger rod extending through the cylinders including a plunger at one end operable in the main cylinder, the rod having an operating gear between the cylinders, an additional gear between the cylinders and meshing with the gear of the plunger rod, a shaft on which the additional gear rotates having a ratchet and pawl connection therewith, a reel on said shaft, a wire wound on the reel, adapted to unwind, to impart motion to the reel and shaft, and thence to the intermeshing gears, spring tensioned gears for rotating the shaft of the reel in a reverse direction, to rewind the wire on the reel, without rotating the additional gear, and a detachable trowel through which the plastic or other material is forced by the plunger.

In testimony whereof I have signed my name to this specification in the presence of two subscribing witnesses.

WILLIAM C. MORELAND.

Witnesses:

C. VINCENT JONES,
ALBERT RANDOLPH.