(No Model.) 2 Sheets—Sheet 1.

G. D. ARMSTRONG.

SHINGLE OR SHEET METAL PAINTING MACHINE.

No. 400,426. Patented Apr. 2, 1889.

Fig. 1.

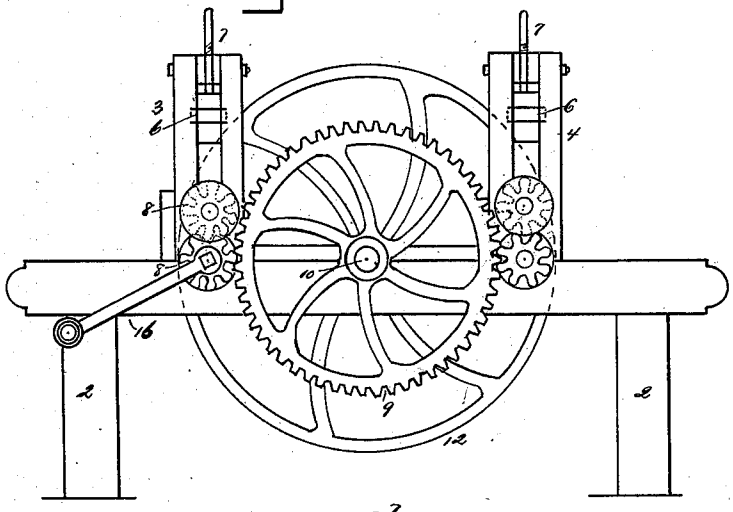
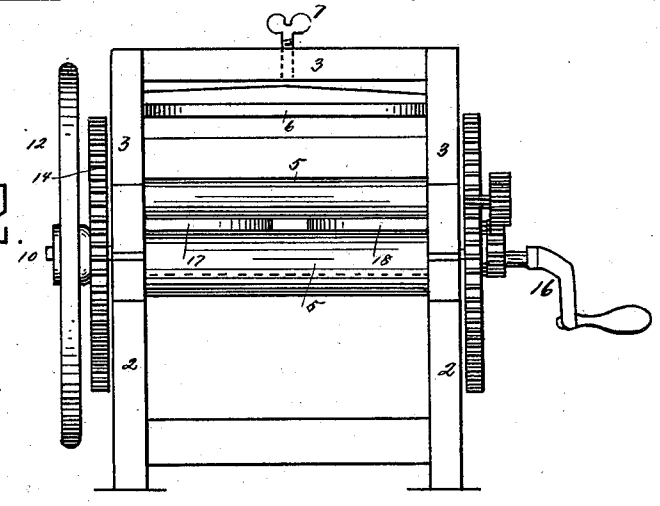


Fig. 2.



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(No Model.) 2 Sheets—Sheet 2.

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Fig. 3.

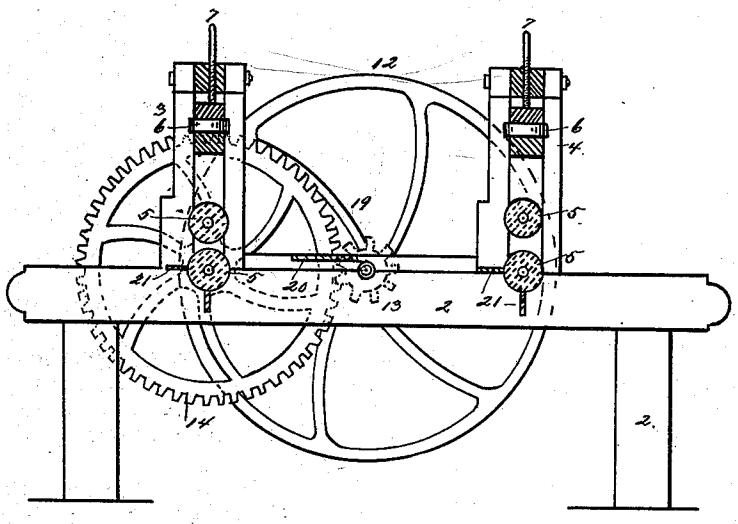
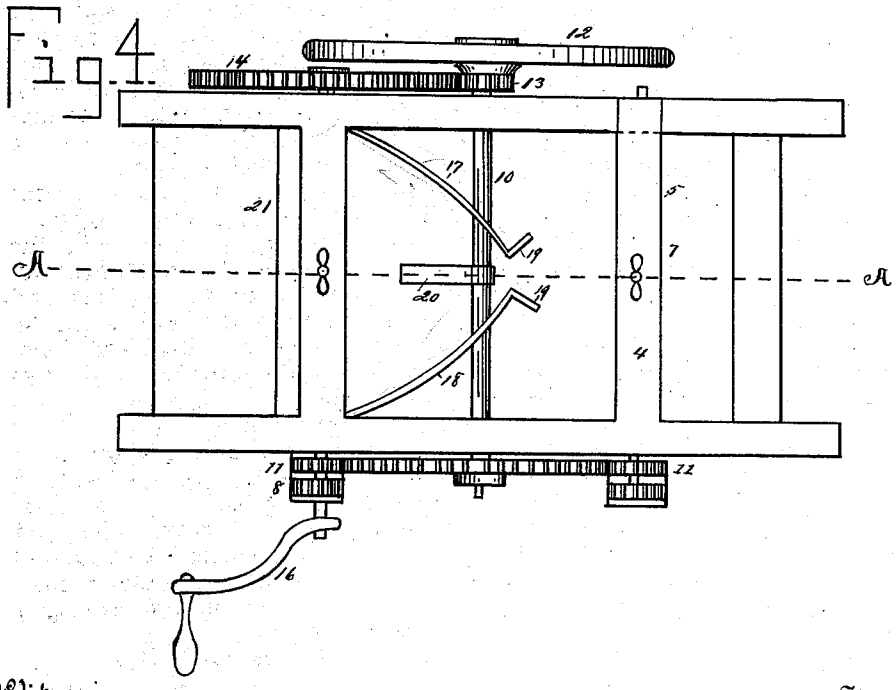


Fig. 4.



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UNITED STATES PATENT OFFICE.

GEORGE D. ARMSTRONG, OF BELLEVILLE, ONTARIO, CANADA.

SHINGLE OR SHEET-METAL PAINTING MACHINE.

SPECIFICATION forming part of Letters Patent No. 400,426, dated April 2, 1889.

Application filed November 5, 1888. Serial No. 289,937. (No model.) Patented in Canada April 13, 1888, No. 28,882.

To all whom it may concern:

Be it known that I, GEORGE D. ARMSTRONG, of the city of Belleville, in the Province of Ontario, Canada, have invented a certain new and useful Improvement in Shingle and Sheet-Metal Painting Machines, (for which I have received Letters Patent in Canada, No. 28,882, April 13, 1888;) and I do hereby declare that the following is a full, clear, and exact description of the same, reference being made to the accompanying drawings, in which—

Figure 1 is a side elevation. Fig. 2 is an end elevation. Fig. 3 is a longitudinal vertical section on line A A, Fig. 4; and Fig. 4 is a top view.

My invention has for its object to simultaneously paint both sides and edges of a shingle or sheet of metal; and my invention consists of one, two, or more pairs of rollers between which the material to be painted is passed after being partially dipped in the paint, said pairs of rollers geared together to be driven simultaneously, and two springs intervening each set of rollers, each spring provided with a roller to paint both opposite edges simultaneously while passing from one set of rollers to the other.

2 is the main frame of my machine, said frame carrying near opposite ends two frames, 3 4, each provided with two rubber or other rollers of a suitable material, 5 5. A spring, 6, and thumb-screw 7 are employed to compress said rollers against the surfaces to be painted when passed between the rollers. The upper and lower rollers of each set are geared together by cog-wheels 8 and the lower rollers of both sets by cog-wheel 9, journaled on an axle, 10, and meshing with pinion 11 on the journal of said rollers. The axle 10 at the opposite side of the machine carries a balance or fly wheel, 12, having a pinion, 13, at the hub, and said pinion gears with a cog-wheel, 14, keyed on the journal of the lower roller, and the other end of said journal is provided with a crank-handle, 16, or a pulley for driving the machine.

17 18 are two inwardly-projecting springs secured to the sides of the main frame and bent back, so as to form sharp edges 19 19, for the purpose of cleaning edges of shingle or metal plates.

20 is a bearing of curved or smooth iron or any suitable material, secured to axle 10, intermediately of the springs, to sustain the shingles or sheet of metal while passing from one set of rollers to the other, and while doing so the angular edges of springs 19 19 engage opposite edges of shingle, the springs yielding to allow the same to pass from one set of rollers to the succeeding set.

21 are scrapers to clean the rollers of paint and prevent them from becoming clogged.

The butt-end of the shingle or one end of the metal sheet is dipped one or two inches endwise into a tank of paint, preferably hot, and passed between the two sets of rollers. If desired, one or more sets of rollers additional may be employed in the same way as the two sets herein described.

I claim as my invention—

The combination, in a painting-machine, of the two series of rollers having intermeshing gear-wheels, the central shaft, 10, wheel 9, secured thereon, pinions 11, with which said wheel gears, the bearing or support 20, secured to said shaft, and the springs having inner flanged or bent ends adjacent said bearing or support, substantially as set forth.

Belleville, Ontario, October 6, 1888.

G. D. ARMSTRONG.

In presence of—
F. L. FELLOWS,
H. A. SIMPSON.