C. VAN SLYCK & H. S. DE FOREST.

STRIPING-MACHINES.

No. 195,058. Patented Sept. 11, 1877.

Fig. 1

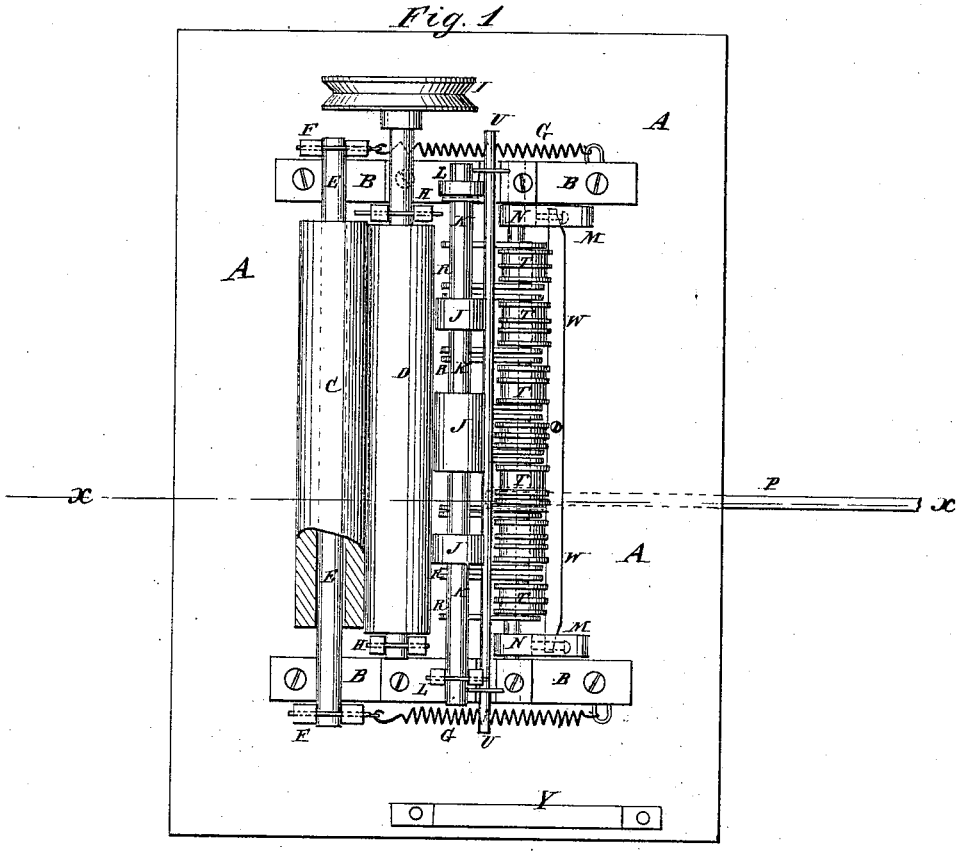


Fig. 2

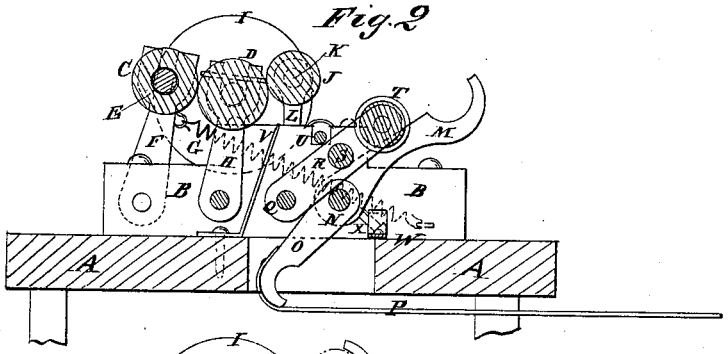
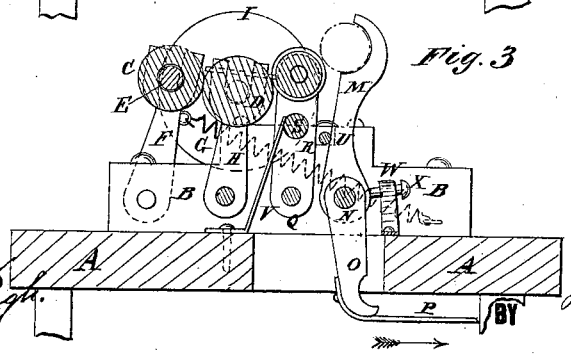


Fig. 3



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CHRISTOPHER VAN SLYCK AND HENRY S. DE FOREST, OF SCHENECTADY, NEW YORK.

IMPROVEMENT IN STRIPING-MACHINES.

Specification forming part of Letters Patent No. **195,058**, dated September 11, 1877; application filed July 30, 1877.

To all whom it may concern:

Be it known that we, CHRISTOPHER VAN SLYCK and HENRY S. DE FOREST, of Schenectady, in the county of Schenectady and State of New York, have invented a new and useful Improvement in Machine for Striping Broom-Handles, of which the following is a specification:

Figure 1 is a top view of our improved machine, part being broken away to show the construction. Fig. 2 is a vertical cross-section of the same, taken through the line *x x*, Fig. 1, and shown as arranged for making the wide stripes. Fig. 3 is the same section as Fig. 2, but shown as arranged for making the narrow stripes.

Similar letters of reference indicate corresponding parts.

The object of this invention is to furnish an improved machine for forming ring-stripes around broom-handles, which shall be simple in construction, convenient in use, being easily adjusted to form the wide or the narrow stripes, and reliable in operation, forming the ring-stripes with perfect accuracy.

The invention consists in the combination of the rollers, the cylinders, the shafts, the springs, and the shaft, arms, and spring, with each other, and with the block and bed-plate, and in the combination of the rollers, the shaft, the springs, the shaft, pivoted bars, and beaded cylinders, the rod, the spring, and the shaft, arms, and springs, with each other, and with the blocks and the bed-plate, as hereinafter fully described.

A represents the bed-plate of the machine, which is designed to be attached to a suitable frame, and to which is attached, at a distance apart a little greater than the length of the part of the broom-handle to be striped, two bearing-blocks or frames B. C is the roller to which the paint is applied and which distributes the said paint to the roller D.

The roller C revolves upon the shaft E, and should be provided with some one of the well-known devices for giving it a reciprocating longitudinal movement upon said shaft, so that it may distribute the ink evenly upon the roller D. The ends of the shaft E rest in notches in the upper ends of two uprights, F, the lower ends of which are pivoted to the outer sides of the blocks B.

To the upper parts of the uprights F are attached the ends of two springs, G, the other ends of which are attached to the forward parts of the blocks B.

The journals of the roller D revolve in notches in the upper ends of two uprights, H, the lower ends of which are pivoted to the inner sides of the blocks B.

To one of the journals of the roller D is attached a pulley or crank-wheel, I, to which motion may be given by a treadle, by hand, or by any other convenient power.

J are cylinders of any desired length, by which the paint is applied to the broom-handle, to form the wide stripes, and which are attached to or formed upon a shaft, K, the journals of which revolve in notches in the upper ends of the uprights L, the lower ends of which are attached to the blocks B.

By this construction the roller C and the cylinders J are revolved by the revolution of the cylinder D, and the rollers C D are held against each other and the cylinders J by the springs G.

The handle to be striped is placed in notches in the sides of the upper ends of the arms M, the lower ends of which are rigidly attached to the end parts of the shaft N, which rocks in bearings in the blocks B, and to which is attached an arm, O, which projects downward through a slot in the bed-plate A.

The lower end of the arm O is rounded off, and to it is attached a strap, P, to be connected with a treadle or other device, to enable it to be operated by foot or hand power, to bring the handle in contact with the cylinders J, by the revolution of which the said handle is revolved.

To the blocks B are attached the ends of the shaft Q, to which are pivoted the lower ends of a number of pairs of bars, R. The bars of each pair are connected by a round, S, and to and between their upper ends is pivoted a roller, T, upon the face of which are formed one or more beads, which form the narrow stripes, and which may be made plain

to form a plain stripe, or may be made zigzag, or of other forms, to form ornamental stripes. The beaded cylinders T may all be used at a time, or every other one, or any desired number.

When the beaded cylinders T are to be used the shaft K and its cylinders J are detached, the beaded cylinders T that are to be used are raised, and are held against the roller D by a rod, U, which is placed in front of the bars R, and the ends of which rest in notches in the blocks B. The broom-handle is held against the beaded cylinders by the arms M, in the manner hereinbefore described, and the said beaded cylinders are held against the broom-handle, to compensate for its taper or any imperfection, by springs V, attached to the bed-plate A, and which rest against the rounds S of the pivoted bars R. The roller D is covered with cloth or with a yielding composition, so that the beads of the cylinders T may receive a proper amount of paint, whether they be pressed more or less closely against it. The arms M are held back to allow the handle to be conveniently put in and taken out, by the spring W, the middle part of which is attached to the bed-plate A, and the ends of which rest upon pins X attached to the shaft N.

In using the machine the wide stripes are formed upon any desired number of handles. The shaft K and the cylinders J are then detached, and the desired number of the beaded cylinders T are raised to apply the narrow stripes. When a different color of paint is to be used the cylinders C D must be cleaned or a new set used.

To the bed-plate A, at one end of the machine, is attached an upright board, Y, for the small ends of the handles to strike against, and thus serve as a gage, so that all the handles may be striped in the same relative position.

Having thus described our invention, we claim as new and desire to secure by Letters Patent—

1. The combination of the rollers C D, the cylinders J, the shafts E K, the springs G, and the shaft, arms, and spring N M O W, with each other, and with the blocks B and bed-plate A, substantially as herein shown and described.

2. The combination of the rollers C D, the shaft E, the spring G, the shaft, pivoted bars, and beaded cylinders Q R T, the rod U, the springs V, and the shaft, arms, and spring N M O W, with each other, and with the blocks B and bed-plate A, substantially as herein shown and described.

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