June 16, 1931. H. O'CONNELL 1,810,221

STRIPING TOOL

Original Filed Dec. 14, 1926

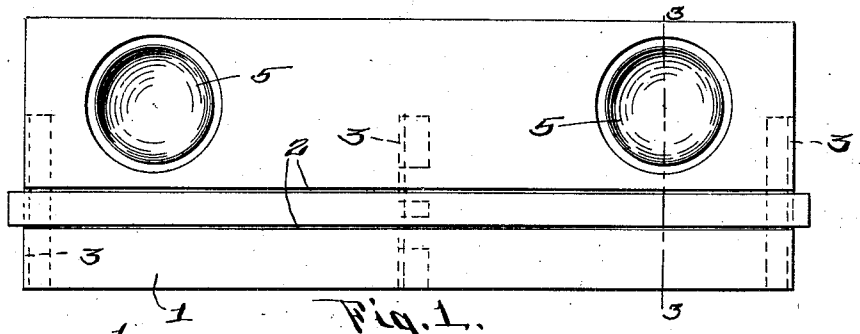


Fig. 1.

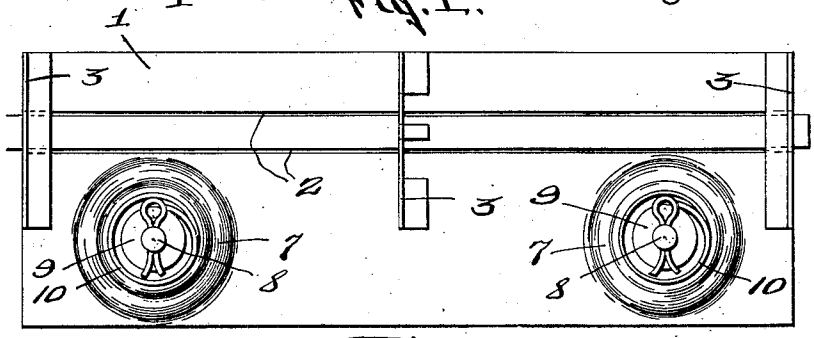


Fig. 2.

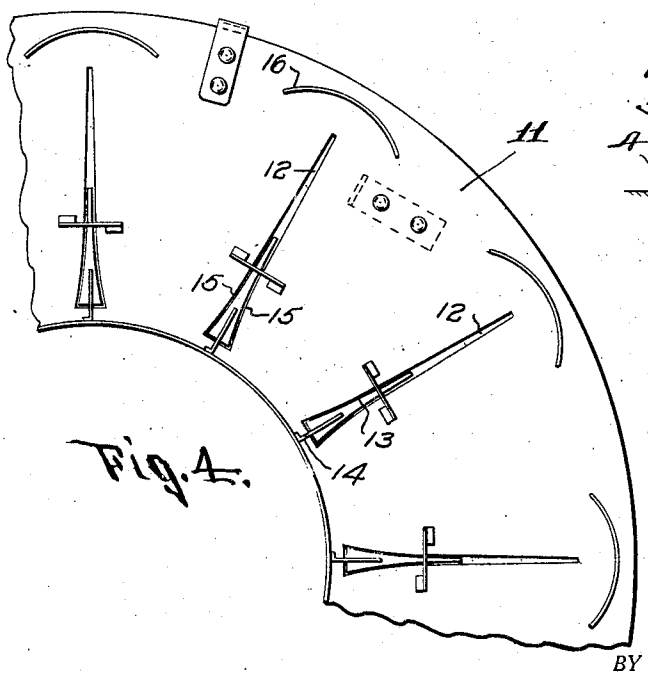


Fig. 4.

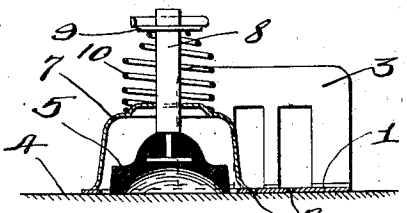


Fig. 3.

INVENTOR.
Herbert C. O'Connell
BY Dawson & Rodell
ATTORNEYS

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UNITED STATES PATENT OFFICE

HERBERT O'CONNELL, OF SYRACUSE, NEW YORK, ASSIGNOR TO H. H. FRANKLIN MANUFACTURING COMPANY, OF SYRACUSE, NEW YORK, A CORPORATION OF NEW YORK

STRIPING TOOL

Application filed December 14, 1926, Serial No. 154,752. Renewed November 7, 1930.

This invention has for its object a particularly simple and efficient stenciling instrument or tool by which stripes can be applied to finished surfaces by an unskilled workman, particularly to finished surfaces such as the exposed surfaces of automobile bodies and the like, and to the spokes of wheels or any other finished surface to which stripes and analogous ornamentations have heretofore been applied by a skilled artist or artisan by hand.

The invention consists in the novel features and in the combinations and constructions hereinafter set forth and claimed.

In describing this invention, reference is had to the accompanying drawings in which like characters designate corresponding parts in all the views.

Figure 1 is a rear elevation of one form of this tool.

Figure 2 is a front elevation thereof.

Figure 3 is a sectional view on line 3—3, Figure 1, the surface to which the stripe is to be applied being also shown.

Figure 4 is an elevation of another form of my invention showing the same when adapted to stripe spokes of a wheel.

Although this tool is described as a striping tool and is shown as formed with slots to form stripes, it is obvious that the slots may be formed to apply or stencil any other ornamentation.

This tool comprises, generally, a plate adapted to overlie and conform to the surface to be striped or otherwise ornamented, the plate having an opening or slot therethrough, through which the paint or other analogous substance is projected to form a stripe on the surface and mechanical means for attaching or adhering the plate to the surface to be striped without marking or marring the surface.

1 designates the plate here shown as having two parallel slots 2 therein, the plate being formed at intervals with suitable shields 3 which prevent the spray from the air brush from scattering and marring the surface being striped.

The plate may be flat or of any contour to closely lie upon the surface 4 to be striped and thus many plates of different contours may be provided or the plates made flexible.

The means for adhering or securing the plate to the surface is suction means or vacuum cups 5 which will adhere to a finished surface without marring it or leaving a mark when removed. The suction means or vacuum cups 5 are movable at a right angle to the plate and spring means are provided to resist such movement and yieldingly press the plate against the surface.

As here shown, these vacuum cups 5 are located in holes in the plate so as to move in advance of the plate to engage the surface and when compressed to permit the plate to lie close to the surface to be striped. These holes are preferably provided in rearward depressions or bosses 7 in which the vacuum cups 5 are located and each cup has a stem 8 extending rearwardly beyond the top of the depression or boss and provided with a shoulder 9 at its rear end. A spring 10 is inserted between said shoulder and the top of the boss, the spring yieldingly pressing the plate against the surface.

In Figure 4 the plate is shown as adapted to cover a plurality of spokes of a wheel with stenciling slots in line with the spokes, that is, the plate is annular or semi-annular and lies tangent to the spokes with slots along the lines of tangency.

11 designates the plate and 12 the slots through which a stripe is applied to the spoke. In order that the stripe may be bifurcated the slot 12 gradually widens at one end and is provided with a plate 13 supported therein by brackets 14, the edges of the plate being spaced apart from the walls of the slot 15 so that a stripe bifurcated at its inner end is formed on the spoke, that is the end toward the center of the wheel.

16 are guard plates for preventing the paint from spattering. This plate 11 is provided with suitable means for locating it on the hub and the spokes of the wheel, the slots being spaced apart in accordance with the spacing of the spokes of the wheel.

In this form of my device, the plate 11 is held in position by spacing means thereon between the spokes.

By my invention, the striping of automobile bodies does not require a skilled workman and the work is uniform and done more quickly than by the artist or artisan as heretofore employed to stripe by hand.

What I claim is:

1. A stenciling tool comprising a plate having a slot therein through which paint is projected to form a stripe, the plate being formed with depressions providing openings in the face of the plate, suction cups mounted in the depressions and having stems extending therefrom to the rear of the plate, the stems having shoulders at their outer ends and springs interposed between the shoulders and the tops of the depressions.

2. A stenciling tool comprising a plate conforming to the surface to be stenciled, the plate having a stencil slot therein, and a vacuum cup device for securing the plate to said surface, said cup being arranged with its advance edge substantially flush with the undersurface of the plate, and means on the outer side of the plate for supporting and operating the vacuum cup.

3. A stenciling tool comprising a plate conforming to the surface to be stenciled, the plate having a stencil slot therein, and a vacuum cup device for securing the plate to said surface, said cup being arranged with its advance edge substantially flush with the undersurface of the plate, means on the outer side of the plate for supporting and operating the vacuum cup, and yielding supporting means between the cup and the plate.

4. In a stenciling tool, a plate for conforming to the surface to be stenciled, the plate being formed with a stencil slot and also formed with openings and means for supporting the vacuum cups in the openings with their advance edges substantially flush with the undersurface of the plate, the plate being provided with means for yieldingly supporting the cups in the openings with their faces flush with the undersurface of the plate.

5. A stenciling tool comprising a plate for covering the surface to be stenciled, the plate having a stencil slot therein, and spaced apart means at one side of the slot for coacting with a surface of the body being stenciled and holding the plate against said surface being stenciled.

6. A stenciling tool comprising a plate for overlying the surface to be stenciled, the plate having a stencil slot therein, and suction means spaced apart along the slot and coacting with a surface of the body adjacent the surface being stenciled.

In testimony whereof, I have hereunto signed my name, at Syracuse, in the county of Onondaga, and State of New York, this 8th day of November, 1926.

HERBERT O'CONNELL.