No. 615,627. Patented Dec. 6, 1898.

P. W. MEINECKE.

POLE PAINTER.

(Application filed Aug. 24, 1897.)

(No Model.) 2 Sheets—Sheet 1.

Fig. 1.

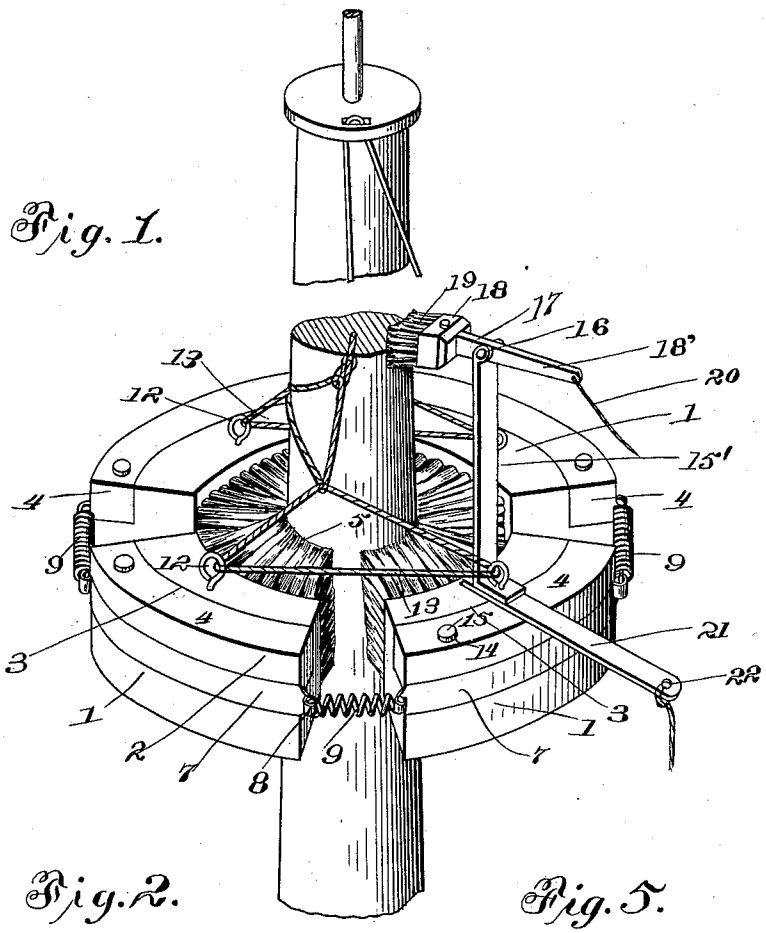


Fig. 2.

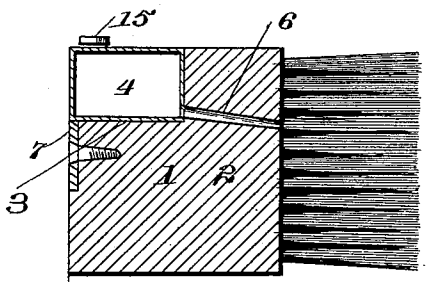
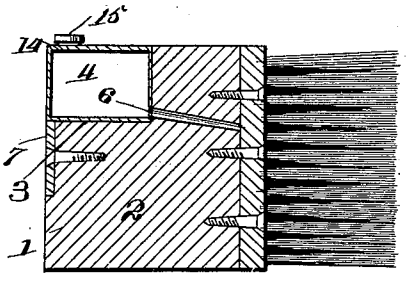


Fig. 5.



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Fig. 3.

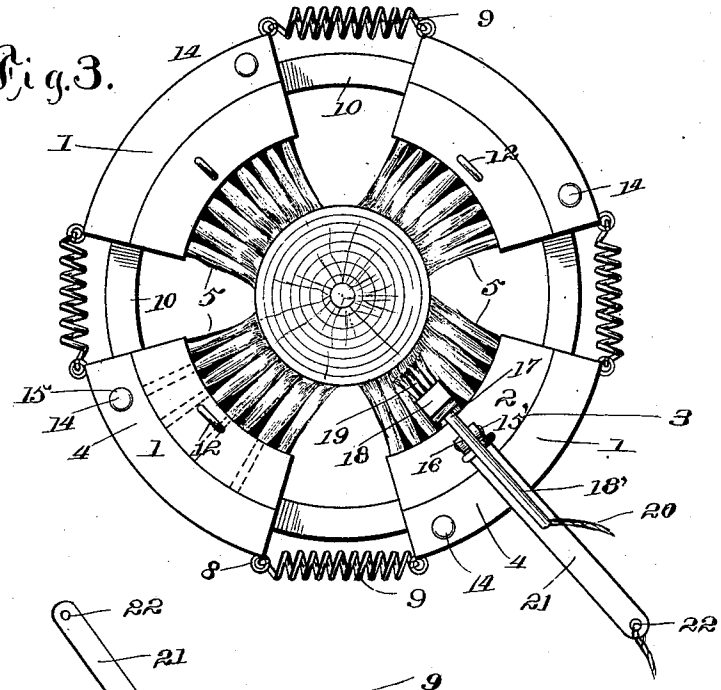
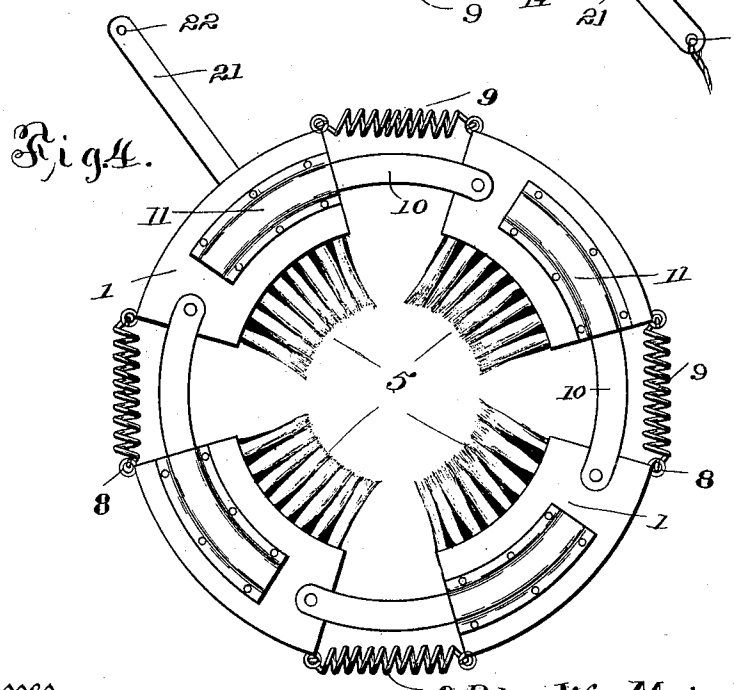


Fig. 4.



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UNITED STATES PATENT OFFICE.

PETER W. MEINECKE, OF NEW YORK, N. Y.

POLE-PAINTER.

SPECIFICATION forming part of Letters Patent No. 615,627, dated December 6, 1898.

Application filed August 24, 1897. Serial No. 649,356. (No model.)

To all whom it may concern:

Be it known that I, PETER W. MEINECKE, a citizen of the United States of America, residing at New York, (Woodside,) in the county of Queens and State of New York, have invented certain new and useful Improvements in Pole-Painters; 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.

My invention relates to novel and useful improvements in means for painting poles; and it has for its object primarily to provide a simple and inexpensive device of the character above mentioned and one with which a pole of any height can be painted from the ground, using the halyard usually secured to the pole for raising and lowering the apparatus.

The invention further contemplates the provision of a simple means which will automatically adapt itself to the varying diameter of the pole from the top to the bottom thereof.

With these and other objects in view, which will become apparent in the course of the following description, all looking toward improving and simplifying devices of this character generally, my invention consists in the novel combination and arrangement of simple parts, that will be hereinafter fully described and the points of novelty will be particularly set forth in the appended claims.

I am enabled to accomplish the objects of my invention by the simple means illustrated in the accompanying drawings, in which—

Figure 1 is a perspective view of my improved device, showing the same in position for use. Fig. 2 is a central section through one of the brushes, showing the paint-reservoir and the means for delivering the paint to the brushes. Fig. 3 is a top plan view of the device. Fig. 4 is a bottom plan view thereof; and Fig. 5 is a sectional view of one of the segmental sections, showing the means employed when it is desired to apply steel brushes for the purpose of scraping the pole preparatory to painting the same.

Referring to the drawings, the numeral 1 indicates a plurality of segmental sections, each of which comprises a block 2, recessed, as indicated by the numeral 3, for the reception of paint-reservoirs 4, communicating with brushes 5 by means of the series of tubes 6. Secured to the periphery of each segmental section is a band 7, having hooks 8 at either end thereof for the reception of loops or eyes formed at the ends of spiral springs 9, which springs serve as a means for drawing the segmental sections together and bringing the brushes in close contact with the pole during the operation of painting the same.

Permanently secured to the under side of each segmental section is a curved arm 10, which is adapted to extend through a keeper 11 on the adjacent section to maintain all the sections at the same level and at the same time permit said sections to move toward each other.

I preferably provide upon each section an eye 12, through which passes ropes 13, which are secured to the lower end of the halyard, which halyard passes to the top of the pole and through an eye or pulley, as is usual, the end of said halyard extending to the ground and serving as a means for lifting the device to the top of the pole preparatory to painting the same.

As a means for filling the paint-tanks I provide openings 14, preferably covered by screw-caps 15, and upon one of the segmental sections I provide a vertical standard 15′, bifurcated at its upper end, as indicated by the numeral 16. Pivoted between the bifurcated arms of said standard is a brush 17, having a paint-reservoir 18, secured to the forward end thereof, communicating with the brush 19. The said brush 17 is provided with a rearward extension 18′, perforated for the reception of a rope or cable 20, which extends to the ground. Secured to one of the segmental sections is an arm 21, perforated at its outer end, as indicated by the numeral 22, for the reception of a rope, which also extends to the ground, for the purpose of rotating the device around the pole when found desirable.

In operation the apparatus is raised to the top of the pole and works gradually downward either by raising and lowering the apparatus or by turning the same around the

pole by means of the arm 21, and it will be noted that as the paint is only fed to the lower portion of the brushes the upper portions of said brushes will serve as means for smoothly and uniformly distributing the paint upon the pole during the descent of the apparatus, the brush 17, when at the top of the pole, serving as means for painting the portions of the pole that cannot be conveniently reached by the brushes.

It is obvious that the hereinbefore-described invention is susceptible to many minor changes and modifications involving mechanical skill, which may be made within the scope of the invention without departing from the spirit thereof, and I do not, therefore, desire to limit myself to the precise construction shown and described—as, for instance, if found desirable metallic plates may be secured to the inner peripheries of the segmental sections, said plates having steel brushes attached thereto for the purpose of scraping or cleaning the pole preparatory to painting the same, and after said pole has been properly cleaned or scraped the bristle-brushes secured to similar plates may take the place of the steel brushes when it is desired to paint the pole.

In Fig. 5 of the drawings I have illustrated the above-described modified construction, the characteristics identical with those of the form shown in Fig. 2 being similarly lettered in this figure. 23 indicates the detachable brush-plate, which, as stated, is provided with steel brushes and is designed to be secured to the inner edge of the brush-section when it is desired to scrape the pole.

From the foregoing description it will be seen that the device herein set forth is especially simple in construction, and that the same may be automatically adjusted to accommodate itself to the varying diameter of the pole from the top to the bottom thereof, and that the objects of the invention are effectually accomplished.

Having thus described my invention, what is claimed as new, and desired to be secured by Letters Patent, is—

1. In a device of the character described, the combination with a plurality of segmental brush-sections connected in a circular series and arranged to slide one upon another, of means for automatically adjusting each and all the sections radially and independently inward and allowing the sections to yield independently in an outward direction, substantially as specified.

2. In a device of the character described, the combination with a plurality of segmental brush-sections, of means for adjusting said sections radially, and curved arms and keepers therefor carried by the several sections and designed to guide and retain them in their proper horizontal positions, substantially as specified.

3. In a device of the character described, the combination with a plurality of segmental brush-sections, of a curved longitudinal arm carried by each section and engaging a curved keeper on the contiguous section, substantially as specified.

4. A device of the character set forth, comprising a plurality of sections having brushes upon the inner peripheries thereof, paint-reservoirs communicating with said brushes whereby the paint is delivered from the reservoir to the brushes, springs interposed between the said sections to keep the brushes in close contact with the pole from the bottom to the top thereof, and means for lifting and lowering said segmental sections, substantially as described.

5. A device of the character described, comprising a plurality of segmental sections having brushes in the inner peripheries thereof, paint-reservoirs provided upon said sections and communicating with the lower portions of the brushes upon the inner peripheries of said sections, springs in the spaces between said segmental sections, whereby said sections are drawn together thereby keeping the brushes in close contact with the pole, a curved arm secured to the under side of each segmental section and extending through a keeper upon the adjacent section, whereby said sections are maintained upon the same level, and means for lifting and lowering the segmental sections, substantially as described.

6. A device of the character herein described, comprising a plurality of segmental sections, having brushes on the inner peripheries thereof, paint-reservoirs provided upon said sections, communicating with said brushes, springs interposed between said sections, and adapted to draw them together whereby the brushes are kept in close contact with the pole, an arm mounted upon one of the sections, a brush upon said arm having a paint-reservoir communicating with the bristles thereof, means for manipulating said brushes from the ground, and means for lifting and lowering the segmental sections, substantially as and for the purpose described.

7. A device of the character herein described, comprising a plurality of segmental sections, with brushes on their inner peripheries adapted to come in contact with the pole, paint-reservoirs upon said sections and communicating with the lower portions of said brushes, springs interposed between said sections and adapted to draw the sections together, whereby the bristles are kept in close contact with the pole, a curved arm secured to the under side of each section and adapted to pass through a keeper on the adjacent section whereby the sections are maintained at the same level, an arm mounted upon one of said sections, a brush pivoted upon the arm and having a paint-reservoir therein com-

municating with the bristles thereof, means for manipulating said brush from the ground, a laterally-extending arm provided upon one of the sections, a rope or cable connected with said arm, whereby the apparatus is moved around the pole, substantially as and for the purpose set forth.

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

PETER W. MEINECKE.

Witnesses:
OTTO A. GROEBER,
W. KORNRUMPH.