

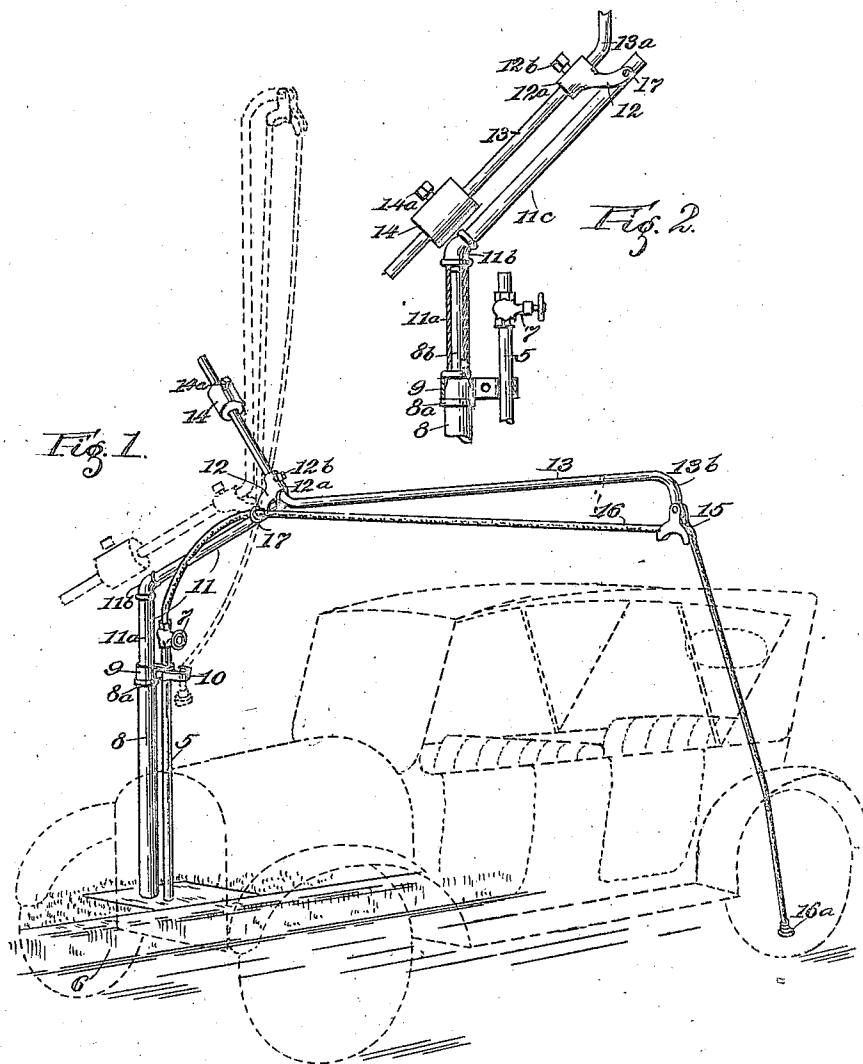
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F. KOSTLAN

AIR TUBE POST

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UNITED STATES PATENT OFFICE.

FRANK KOSTLAN, OF TRAEER, IOWA.

AIR-TUBE POST.

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To all whom it may concern:

Be it known that I, FRANK KOSTLAN, a citizen of the United States, residing at Traer, in the county of Tama and State of Iowa, have invented certain new and useful Improvements in Air-Tube Posts; 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 apparatus for serving compressed air for the inflation of pneumatic tires, and the object of the invention is to produce a device to carry the air-tube which will afford a wide range of movement for the tube; will support it in a nearly vertical position when not in use, and when in use will be practically balanced, so that the operator does not need to hold to the tube to prevent its pulling away.

The invention is fully disclosed in the description and claims following, reference being had to the accompanying drawing, in which:

Fig. 1 is a side view of the device as in use. Fig. 2 is a side elevation, partly in section, showing in larger detail the main features of the invention.

In the drawing the numeral 5 denotes an air-pipe located near a street curb 6, and leading to a source of compressed air, not shown. The pipe is provided with a suitable valve 7 to control the flow of air. Adjacent to this pipe is mounted a standard 8, which in practice is made of a section of large gas-pipe, a reducing coupling 8^a and an upward extension 8^b of small pipe. Around the coupling is fitted a bracket 9, with an outer eye to enclose the air-pipe, and to this bracket is attached a hook 10. On the extension 8^b is swiveled an angled supporting arm 11, formed of a section of pipe 11^a to fit revolubly on the extension, an elbow 11^b, and a diagonal extension 11^c. Near the end of the extension is pivoted a stirrup 12 having a hub 12^a to receive the main tube-carrying arm 13, and provided with a set-screw 12^b for securing the arm adjustably in position. This arm is bent at 13^a, and to the shorter limb is attached by a set-screw 14^a a slidable weight 14, by which means the arm and its depending tube may be nicely balanced when in the operative position shown in Fig. 1. The outer end of the arm is formed as a goose-neck

13^b, and from this hangs pivotally a shoe 15 adapted to carry the air-tube 16, and prevent a short kink therein. One end of the tube connects with the end of the air-pipe, and the other has the usual nipple-coupling 16^a. Between the shoe and the end of the air-pipe the tube is passed through an eye in the pivot-pin 17 supporting the stirrup 12.

The operation of the device is clearly indicated in Fig. 1, where an automobile is indicated in dotted outline, in position for tire inflation. It will be evident that the operator, holding the tube, may move to any wheel, and inflate its tire. The weight being properly adjusted, the arm 13 may be exactly balanced, when in the position shown in Fig. 1. It is then held depressed merely by the preponderating weight of the free end of the tube, and there is no retracting pull on the tube. He thus has full use of both hands, which is a matter of great convenience in the manipulation of nipple-caps and in the testing of pressure with a pressure-gage. It is to be noted that the depression of the arm 13 is limited by the end of the diagonal arm 11^c, so that no part of it comes in contact with the car or its top. When the inflating operation is completed, the operator simply lifts the tube, when the weight, with an accelerating leverage, lifts the parts to the position shown in dotted outline, the tube being hung behind the hook so as to be completely out of the way, and not swing in the wind.

Having thus described my invention, I claim:

1. An air-tube support, comprising a standard, a member swiveled thereon, a tube-supporting arm pivoted to said member, and having an oppositely disposed, upwardly inclined arm with a counterbalancing weight attached thereto, whereby the tube-supporting arm is practically balanced when depressed, but greatly overbalanced when erect.

2. An air-tube support, comprising a standard, an upwardly inclined member swiveled thereon, an angled tube-supporting arm hinged adjacent the apex of the angle to a point near the outer end of said member to swing in a vertical plane, and a balancing weight attached to said arm to counterbalance the tube and its supporting part of the arm.

3. An air-tube support, comprising a

standard, a member swiveled thereon and having an offset part to carry a tube-supporting arm, a stirrup hinged to swing in a vertical plane on said offset, an angled, tube-
5 supporting arm carried by said stirrup, and a counterbalancing weight carried by said arm.

4. An air-tube support, comprising a standard, a member swiveled thereon, a
10 vertically swinging arm hinged thereto by a tube-carrying pin, a depending, tube-carrying shoe at the outer end of the arm, and a counterbalancing weight attached to the arm on the other side of the hinge.

5. An air-tube support, comprising a standard, a member having a diagonal extension, swiveled thereto, a stirrup hinged to said extension, and a tube-supporting arm attached to said stirrup, the end of the extension forming a stop to limit the depression of said arm. 15 20

In testimony whereof I affix my signature in presence of two witnesses.

FRANK KOSTLAN.

Witnesses:

ARTHUR THOMAS,
FLORA LEWIS.