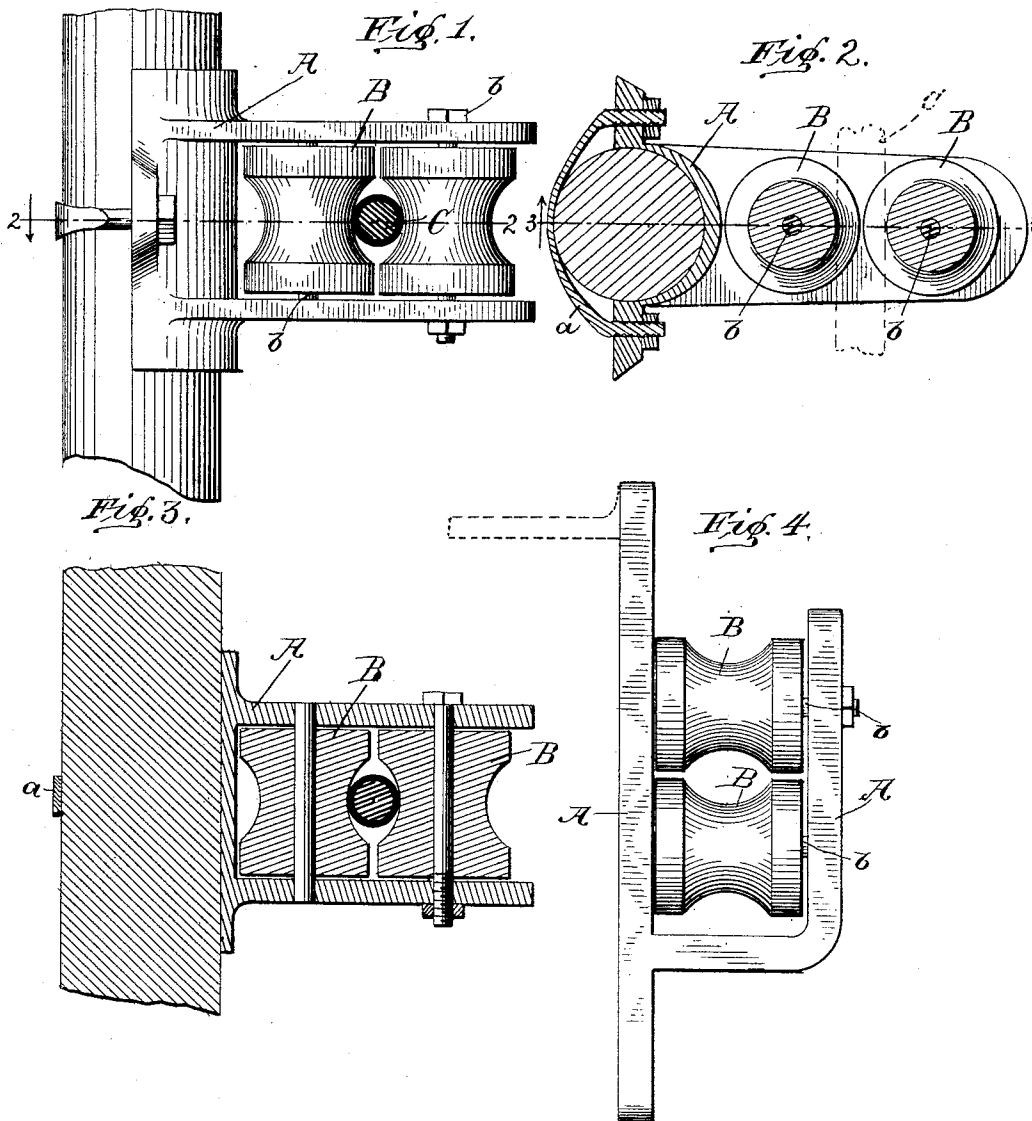


(No Model.)

C. A. JACOBS.
WIRE HANGER.

No. 463,756.

Patented Nov. 24, 1891.



Witnesses:

Frank K. Hood.
Chas. F. Witt

Inventor:

Charles A. Jacobs.
per *Edw. W. Bradford,*
his Attorneys.

UNITED STATES PATENT OFFICE.

CHARLES A. JACOBS, OF HALLOWELL, MAINE.

WIRE-HANGER.

SPECIFICATION forming part of Letters Patent No. 468,756, dated November 24, 1891.

Application filed February 14, 1891. Serial No. 381,496. (No model.)

To all whom it may concern:

Be it known that I, CHARLES A. JACOBS, a citizen of Hallowell, residing at Hallowell, in the county of Kennebec and State of Maine, have invented certain new and useful Improvements in Wire-Hangers; 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.

The object of my said invention is to provide a simple and convenient form of device for supporting wires, which will permit of the contraction and expansion of the wire supported thereby, and which contains various improvements in its construction, whereby it is adapted for ready and efficient use, as will be hereinafter more fully described and claimed.

While the invention relates to supports for any kind of wire, yet it is particularly adapted for use with wires used for electrical conductors, particularly those which are covered with insulating material, which material when the wire is supported in the usual way often becomes worn at the places where it is fastened to its supports, thus exposing the "live" wire, oftentimes with serious results.

Referring to the accompanying drawings, which are made a part hereof, and on which similar letters of reference indicate similar parts, Figure 1 is a view in elevation of a short portion of a pole with one of my wire-supports attached thereto, showing a wire in section passing between the rolls; Fig. 2, a horizontal sectional view on the dotted line 2 2 in Fig. 1; Fig. 3, a vertical section on the dotted line 3 3 in Fig. 2, and Fig. 4 a view showing a modified form of the frame, by which the invention is adapted to be attached to supports of a different character from the pole shown in the other figures.

In said drawings, the portions marked A represent the frame in which the rolls or spools are supported; B, said rolls, and C the wire.

The frame A is any convenient form of housing adapted to furnish a support for the journals of the rolls. In Figs. 1, 2, and 3 it consists of two horizontal and parallel arms cast upon a base, which base is formed with a concave face adapted to fit upon the round post, to which it is secured by means of a strap a,

the ends of which extend through perforations formed in ears on the sides of said base, and are formed screw-threaded and provided with nuts, (see Fig. 2,) by which arrangement the device can readily be secured in position. In Fig. 4 the form is slightly different, being adapted to be secured by screws to the side of a wooden post or a building or any other convenient support. The base-piece may be provided with rearwardly-extended flanges, by which it is adapted to be secured to other forms of support, or any form of frame may be provided adapted for the particular use for which it is intended.

The rolls B are formed with concave faces and are journaled in pairs on journals *b* in the frame A, as shown, with their concave faces adjacent. They are preferably formed of porcelain or such other material as may be found possessed of similar qualities.

The wire C is or may be any wire which it is desired to support, that shown being an insulated wire, such as is used for conducting the current of electricity to electric lamps.

My invention is used as follows: The supports, consisting of the frame and the rolls B journaled therein, are mounted upon the poles or other places from which it is desired to support the wire, said wire being passed between said rolls and fastened securely only at its ends or at long intervals in the ordinary manner. The intermediate supports being of the construction herein shown, the wire is permitted to move through them for such distance as the contraction and expansion of the metal may make necessary without in any manner straining the supporting parts or wearing its surface, while at the same time it is firmly secured from any lateral or vertical motion, as the concave faces of the rolls completely embrace it.

I am aware that wires have heretofore been hung to swinging or vibrating parts, such as the limbs of trees, by means of hangers having rollers with adjacent concave faces, between which the wire was passed, and I do not therefore claim this construction broadly, but limit myself to the particular invention herein shown and claimed.

Having thus fully described my said invention, what I claim as new, and desire to secure by Letters Patent, is—

A wire-hanger consisting of the frame A, formed of a base with a face adapted to fit against the side of a part to which it is to be secured, and parallel arms, the rollers C, formed
5 with concave adjacent faces journaled with suitable bearings in said parallel arms, and the strap *a*, passing around the part to which the hanger is secured with its ends extending through perforations in ears formed on the
10 sides of the base of said frame, nuts being

provided on said ends for securing said parts together, substantially as set forth.

In testimony whereof I do affix my signature in presence of two witnesses. Done at Augusta, Maine, this 26th day of January, A. D. 1891.

CHARLES A. JACOBS.

Witnesses:

C. W. JONES,

THOS. LEIGH, Jr.