

J. MEUTE, JR.
WIRE HANGER.

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1,043,713.

Patented Nov. 5, 1912.

Fig. 1.

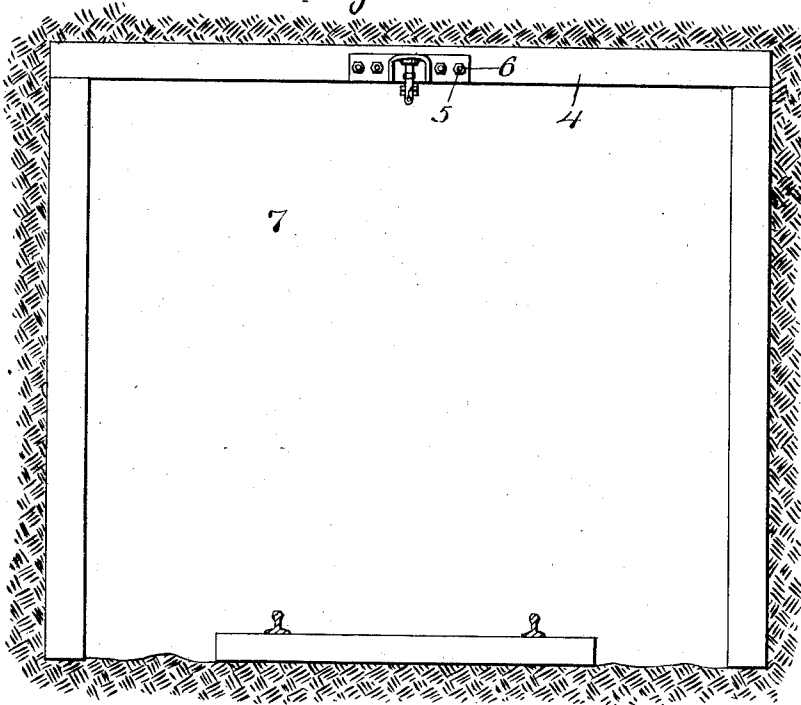


Fig. 2.

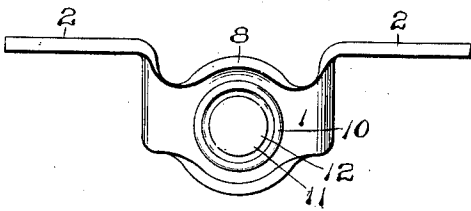


Fig. 3.

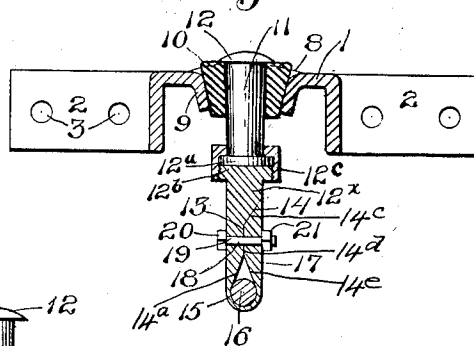
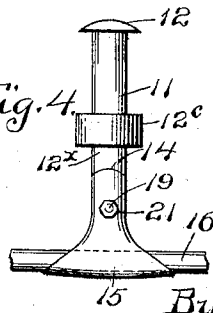


Fig. 4.



Witnesses
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UNITED STATES PATENT OFFICE.

JOHN MEUTE, JR., OF MOON RUN, PENNSYLVANIA.

WIRE-HANGER.

1,043,713.

Specification of Letters Patent.

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To all whom it may concern:

Be it known that I, JOHN MEUTE, JR., a citizen of the United States of America, residing at Moon Run, in the county of Allegheny and State of Pennsylvania, have invented certain new and useful Improvements in Wire-Hangers, of which the following is a specification, reference being had therein to the accompanying drawing.

This invention relates to wire hangers particularly designed for suspending trolley wires and electric conductors in connection with industrial electric railways, as the railway of a mine.

The primary object of the invention is to provide a hanger that can be easily and quickly placed in position to support a trolley wire.

Another object of the invention is to furnish a hanger with novel means for holding a wire without the use of tie-wires or similar detachable devices.

A further object of the invention is to provide a trolley hanger that is strong and durable, inexpensive to manufacture, easy to install, and highly efficient for the purposes for which it is intended.

With these and such other objects in view as may hereinafter appear the invention consists of the novel construction, combination, and arrangement of parts to be hereinafter specifically described and then claimed.

Reference will now be had to the drawing, wherein there is illustrated a preferred embodiment of the invention, but it is to be understood that the structural elements thereof are susceptible to such changes as fall within the scope of the appended claim.

In the drawings: Figure 1 is a cross sectional view of the entry of a mine showing the hanger in position. Fig. 2 is a plan of a detached hanger. Fig. 3 is a vertical sectional view of the same, and Fig. 4 is a side elevation of a detached hanger.

Like numerals of reference designate corresponding parts throughout the several views.

1 denotes an inverted U-shaped support or yoke having the ends thereof bent to provide oppositely disposed face plates 2 having apertures 3, whereby it can be secured to a beam or other support 4 by bolts 5, nuts 6, or other fastening means, the beam 4 being shown as located within the entry 7 of a mine. The support 1 is made of a

single piece of material and is provided with a central opening 8, said opening having the walls thereof bent downwardly to provide an annular tapering seat 9 for a washer 10 of insulation, as hard rubber, porcelain, glass, or asbestos.

11 denotes a pin having the upper end thereof molded, embedded, or otherwise secured in the washer 10 and the upper end of the pin is covered by asbestos or a similar non-conductive material 12. The lower end of the pin has a head 12^a to which is connected by a coupling or a union 12^c the exteriorly threaded head 12^b of a bolt 12^x. The lower portion of the bolt 12^x is cut-away to provide a flat shoulder 13, a beveled shoulder 14, and a beveled portion 14^a which is positioned to one side of the plane in which the shoulder 14 extends. The lower end of the bolt 14^x is flattened and rounded as well as flared and extended longitudinally thereby providing a relatively thin resilient rounded lower portion 15, as best shown in Fig. 4. The lower end 15 of the bolt 12^x provides a longitudinally-extending concave seat for a wire 16. Integral with the rounded end 15 of the bolt 12^x is a clamping member having an enlarged lower portion 17 and a reduced upper portion. The clamping member 17 when in position with respect to the bolt 12^x is flush with said bolt and has its inner face provided with a beveled shoulder 14^c with which engages the shoulder 14, a flattened portion 14^d abutting against the flat shoulder 13, and a beveled portion 14^e which extends in an opposite direction with respect to and opposes the beveled portion 14^a. The bolt 12^x is made of malleable material, whereby when the enlarged portion 17 is out of engagement with the shoulder 14, the trolley wire 16 can be easily and quickly sprung into its seat and the enlarged portion 17 returned to its normal position.

As a safety factor tending to prevent displacement of the wire 16, I provide the lower end of the bolt and the clamping member with registering openings 18 adapted to receive the shank 19 of a bolt, said shank having a head 20 and a detachable nut 21.

What I claim, is:

A wire hanger adapted for mining installations, comprising a bracket adapted to be secured to a support, said bracket having an opening with a vertical axis and flared upwardly to form a seat, an insulating bush-

ing extending through the opening and having its periphery complementary to and loosely seated on said seat, a headed pin extending through and supported by said bushing, said pin having its lower end formed with a smooth collar, a threaded sleeve carried by the pin and adapted to project over said collar, and a supporting member for the wire, said member having a threaded upper end adapted to be removably engaged by the sleeve and being formed

to permit the seating of the wire therein below said upper end, whereby said member may swing laterally or pivotally to conform to the course of the wire without affecting the threaded connection with the pin. 15

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

JOHN MEUTE, JR.

Witnesses:

MAX H. SROLOVITZ,
CHRISTINA T. HOOD.

Copies of this patent may be obtained for five cents each, by addressing the "Commissioner of Patents, Washington, D. C."