

No. 862,444.

PATENTED AUG. 6, 1907.

S. J. BRUND.
WIRE HOLDER.

APPLICATION FILED APR. 16, 1907.

Fig. 1.

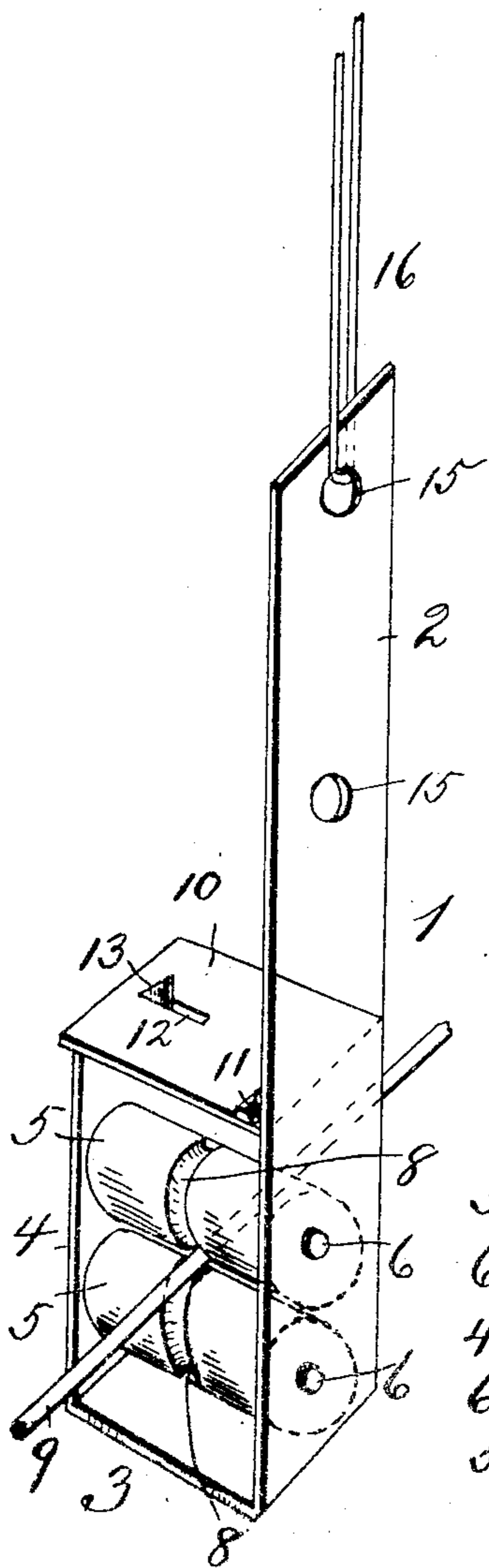


Fig. 2.

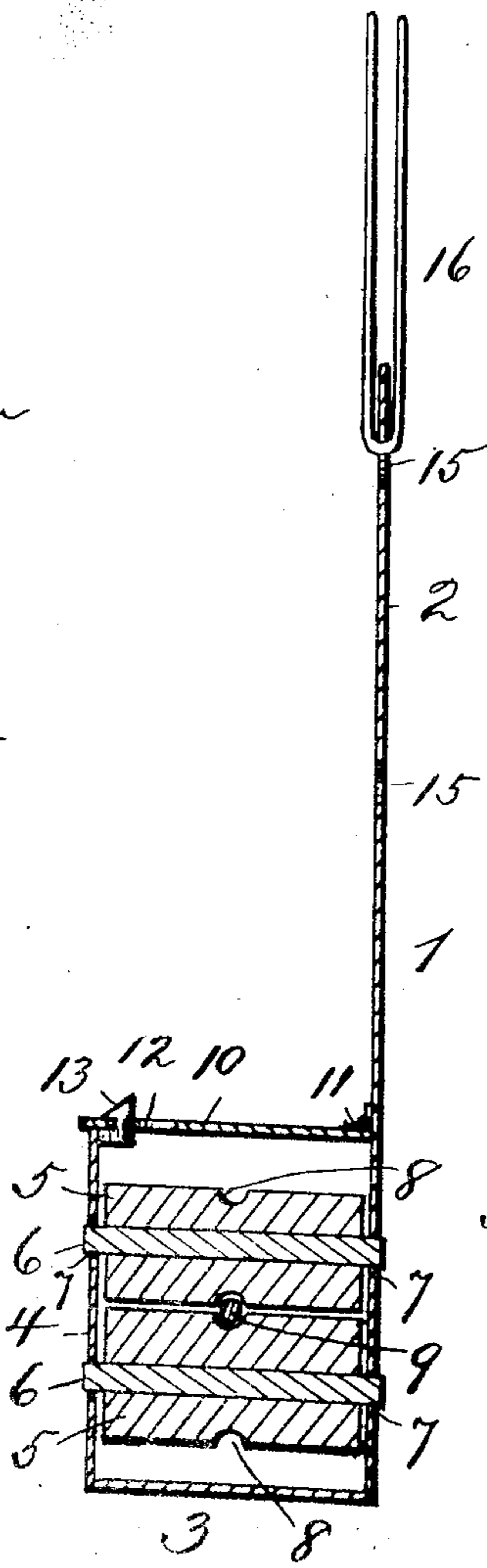
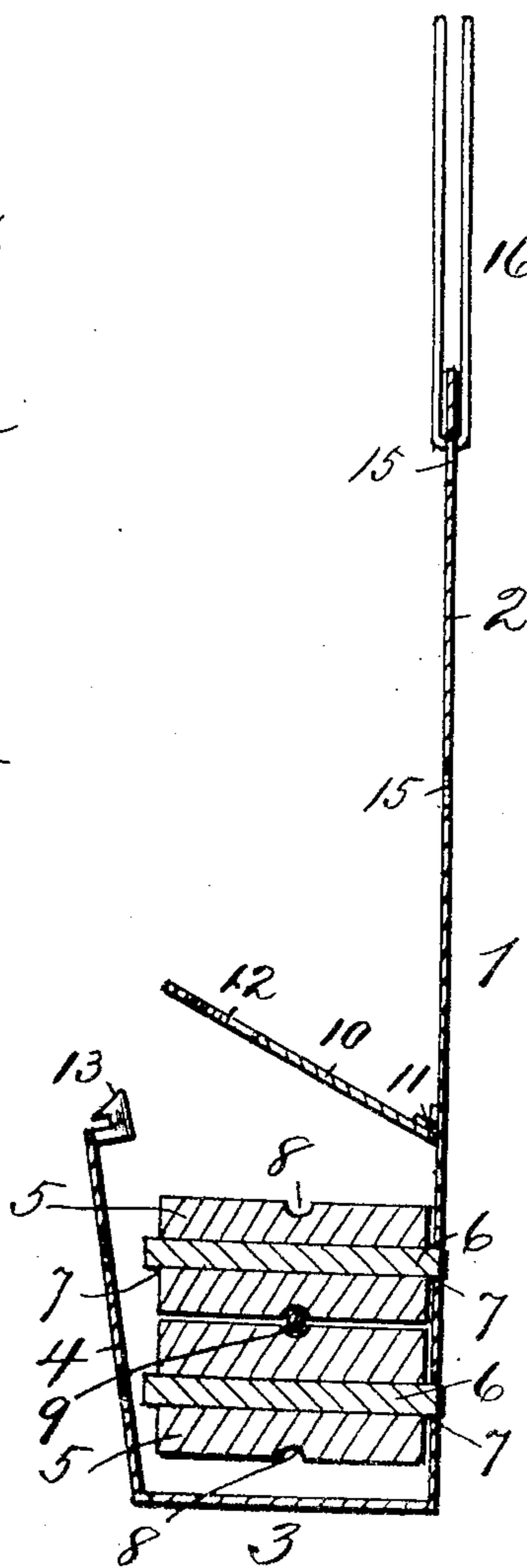


Fig. 3.



Witnesses

C. M. Boulter
C. M. Boulter

Inventor

Surrey J. Brund.
By C. A. Brandenburg
Attorney

UNITED STATES PATENT OFFICE.

SURREN J. BRUND, OF COTTAGE GROVE, OREGON.

WIRE-HOLDER.

No. 862,444.

Specification of Letters Patent.

Patented Aug. 6, 1907.

Application filed April 16, 1907. Serial No. 368,494.

To all whom it may concern:

Be it known that I, SURREN J. BRUND, a citizen of the United States, residing at Cottage Grove, in the county of Lane and State of Oregon, have invented certain new and useful Improvements in Wire-Holders, of which the following is a specification.

My invention relates to insulating supports for telephone and telegraph wires and among the objects in view is to provide an exceedingly simple and inexpensive support for wires such as described, that will allow a free movement, either of the wire through the support, or movement of the support on the wire, and while my device is particularly adapted for wires which are not insulated, yet it is capable of use with insulated wires.

My invention is intended for use where wires are to be supported from trees or the like and unless there is a yielding support or a yielding connection between the wire and the support, there will be considerable strain on the wire due to the movement of the tree back and forth and particularly where a tree falls upon the wire and, if the wire be an insulated one, the movement of the wire would soon wear away the insulation.

My invention consists in the novel construction, arrangement and combination of parts as hereinafter fully described, illustrated in the drawing, and pointed out in the appended claim.

In the drawing:—Figure 1 is a perspective view of my invention, showing the manner of supporting a wire therefrom. Fig. 2 is a vertical sectional view, and Fig. 3 is a view similar to Fig. 2, showing the hinged top raised and the vertical side bent outwardly for the purpose of enabling the rollers to be removed or replaced.

In carrying out my invention, I provide the insulating support 1, which I make of an iron strap having the upwardly extended portion or arm 2 and bent at its lower end to form the rectangular portion 3, the side portion or wall 4 of which extends upwardly a short distance parallel with the portion 2.

5 indicate rollers loosely mounted upon pins or shafts 6, which latter have bearings in openings in the vertical side walls of the support as indicated at 7. I employ two of these rollers and provide each of them with a groove 8 and arrange the rollers so that they will be in close proximity with their peripheral surfaces in contact or nearly so.

10 indicates a plate or cover for the rectangular portion of the support, said plate being hinged as at 11 so that it may be swung upwardly to uncover the rollers and said plate is maintained in closed position by any suitable catch device, as for instance by providing said plate with a slot 12 with which is adapted to engage an upwardly projecting catch 13 carried by the

side portion 4. When the latter portion is in normal position, *i. e.*, extending vertically upwardly and parallel with the portion 2, and the plate is in lowered position, the catch will engage with the slot 12 and hold the parts rigid. When, however, it is desired to remove the rollers for any reason, the upper part of portion 4 is sprung slightly toward the portion 2 sufficiently to release the catch from the slot and permit the plate 10 to be swung upwardly and then the portion 4 can be bent outwardly until the shafts of the rollers will be freed from their bearing holes and the rollers can then be removed.

The wire 9 to be supported is passed through the opening formed by the grooves in the rollers and a rolling or frictionless support is thereby afforded for the wire and which permits freedom of movement of the wire relatively to the support or vice versa, and no strain is therefore exerted upon the wire.

The support may be attached or suspended in any suitable manner and by any desired means from a tree or the like. I preferably provide the arm 2 with holes 15 through either of which a wire 16 is adapted to be passed, which wire can be suitably attached to a tree.

The support may be constructed of thin spring metal and by reason of its extreme simplicity, it can be very inexpensively manufactured.

What I claim is:—

1. In a device of the character described, the combination with a support having an upwardly extending supporting arm 2, and a rectangular portion 3 having a side portion or arm 4, of two rollers horizontally journaled in said portion 3 and each provided with a groove 8, a plate 10 provided with a slot and hinged at one end to the portion 2, and a catch carried by the side portion or arm 4 adapted to removably engage with the slot in the plate.

2. In a device of the character described, the combination with a support having an upwardly extending supporting arm 2, and a rectangular portion 3 having a side portion or arm 4, of two rollers horizontally journaled in said portion 3 and each provided with a groove 8, a plate 10 provided with a slot and hinged at one end to the portion 2, and a catch carried by the side portion or arm 4 adapted to removably engage with the slot in the plate, said arm 2 having holes 15 and a wire passing through said holes for the purpose specified.

3. In a device of the character described, the combination with a support having an upwardly-extending arm 2, and a rectangular portion 3 having a side portion 4, of two rollers rotatably mounted in said portion 3 and each provided with a groove, a plate 10 hinged at one end to the arm 2, and means for detachably engaging with said plate to hold it in its lowered position, as set forth.

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

SURREN J. BRUND.

Witnesses:

J. C. JOHNSON,
J. S. MEDLEY.