

(No Model.)

A. CUSTODIS.
APPARATUS FOR HANGING AND CLEANING TELEGRAPH OR TELEPHONE
WIRES.

No. 550,255.

Patented Nov. 26, 1895.

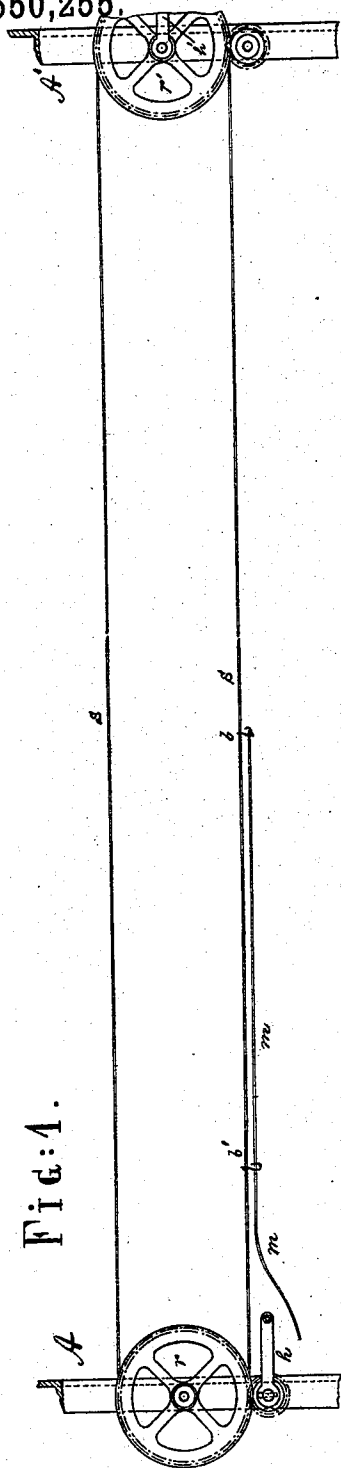


Fig:1.

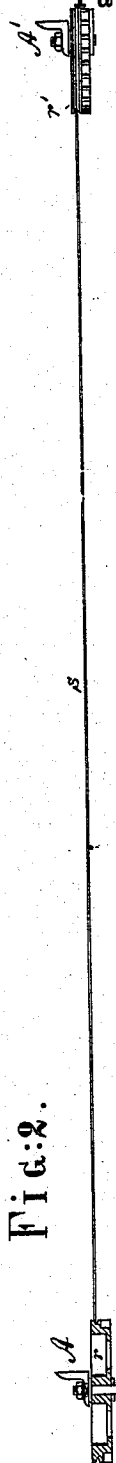


Fig:2.

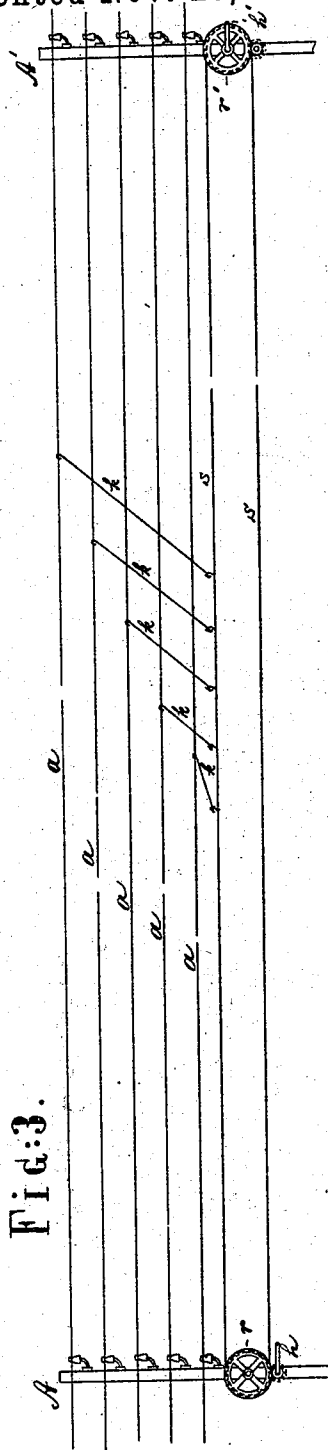


Fig:3.

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UNITED STATES PATENT OFFICE.

ALPHONS CUSTODIS, OF DÜSSELDORF, GERMANY.

APPARATUS FOR HANGING AND CLEANING TELEGRAPH OR TELEPHONE WIRES.

SPECIFICATION forming part of Letters Patent No. 550,255, dated November 26, 1895.

Application filed May 15, 1895. Serial No. 549,402. (No model.)

To all whom it may concern:

Be it known that I, ALPHONS CUSTODIS, a subject of the German Emperor, residing at Düsseldorf, Germany, have invented certain
5 new and useful Improvements in Apparatus for Hanging and Cleaning Telegraph or Telephone Wires, of which the following is a specification.

This invention relates to an apparatus by
10 which telegraph or telephone wires may be easily drawn across inaccessible places from pole to pole, and by which they may also be easily relieved from accumulated dirt, ice, or snow.

15 In the accompanying drawings, Figure 1 is a side elevation of my improved apparatus. Fig. 2 is a plan, partly in section, thereof; and Fig. 3 is a side elevation showing the scrapers attached.

20 The letters A' A represent a pair of poles or uprights adapted for the support of telegraph or telephone wires *a*. To the poles A A' are pivoted the pulleys or rollers *r r'*, around which passes an endless wire, wire-rope, or band *s*. The line-wire *m* to be hung
25 is secured near the pole A to a hook *b* of endless wire *s*, and then motion is imparted to the endless wire, so as to draw the free end of the wire *m* toward the pole A', to which it is subsequently secured. To prevent sagging of
30 wire *m*, additional hooks *b'* may be from time suspended from wire *s* to engage wire *m*. If the entire line is provided with the endless wires between the poles, the conducting-wires may
35 thus at all times be quickly hung or repaired.

Motion may be imparted to the pulleys *r r'* in suitable manner. Thus I have shown the pulley *r* intergeared with a crank-shaft *h*, while the pulley *r'* is provided with the crank-handle *h'*. Either one of the pulleys may
40 thus be revolved to set the mechanism into operation.

To the endless wire *s* may be secured scrapers *k*, having hook-shaped ends which embrace the line-wires *a*. These scrapers are
45 used to free the line-wires from accumulated dirt or from ice and snow. When this cleaning operation is to be performed, the scrapers are attached to the endless wire and the latter is set into motion, so as to gradually draw
50 the scrapers over the line-wires.

My improved apparatus is thus capable of a double use, and will be found of great convenience in the construction and maintenance
55 of a telegraph or telephone line.

What I claim is—

The combination of a pair of supports with line wires carried thereby, a pair of pulleys, an endless wire passing around the pulleys and scrapers secured to the endless wire and
60 adapted to engage the line wires, substantially as specified.

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

ALPHONS CUSTODIS.

Witnesses:

ERNEST ANDRÉ,

WILLIAM ESSENWEIN.