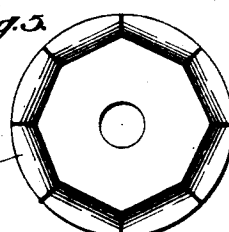
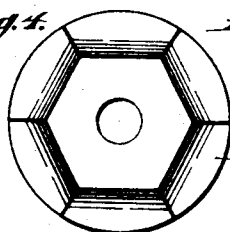
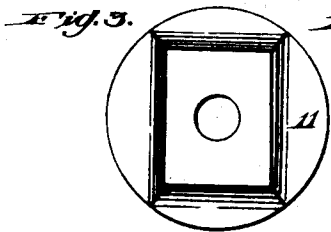
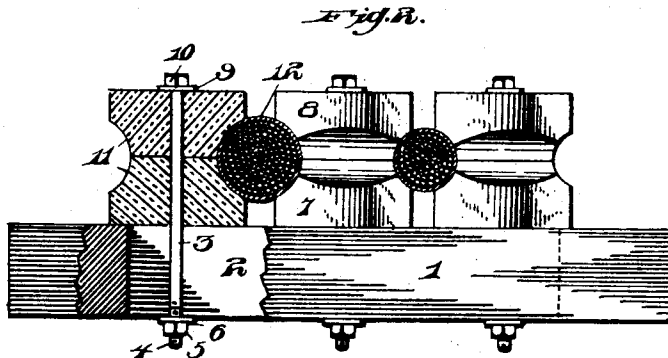
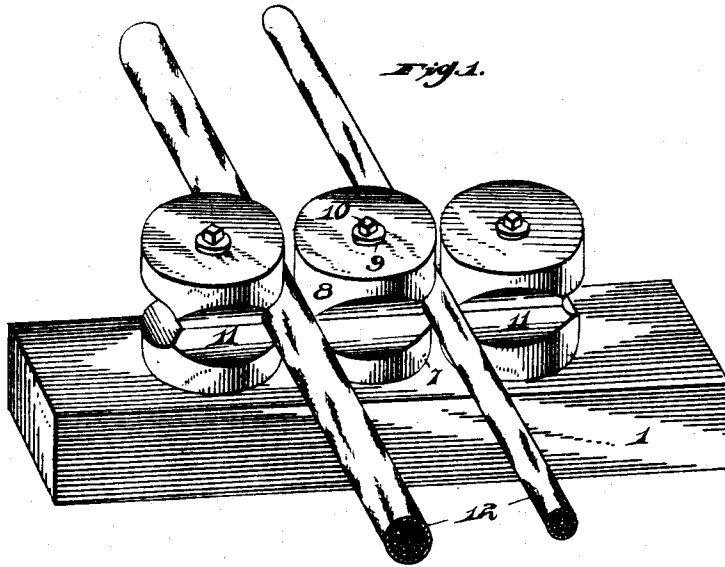


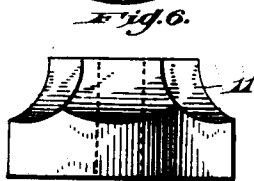
H. D. MURDOCK.  
ADJUSTABLE INSULATOR.

(Application filed Apr. 18, 1901.)

(No Model.)



Witnesses:  
*J. P. Appelman.*  
*E. C. Potter.*



Inventor  
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JETTS

# UNITED STATES PATENT OFFICE.

HENRY D. MURDOCK, OF PITTSBURG, PENNSYLVANIA.

## ADJUSTABLE INSULATOR.

SPECIFICATION forming part of Letters Patent No. 682,881, dated September 17, 1901.

Application filed April 13, 1901. Serial No. 56,476. (No model.)

*To all whom it may concern:*

Be it known that I, HENRY D. MURDOCK, a citizen of the United States of America, residing at Pittsburg, in the county of Allegheny and State of Pennsylvania, have invented certain new and useful Improvements in Adjustable Insulators, of which the following is a specification, reference being had therein to the accompanying drawings.

10 This invention relates to certain new and useful improvements in adjustable insulators, and has for its object the provision of novel means whereby two or more insulators may be laterally adjusted in a block or base-plate.

15 The present invention has for its further object to arrange two or any number of insulators upon a base-plate, said insulators being provided with four, six, or eight sides having recesses cut therein to conform with and effectually hold therebetween a cable or series of wires.

20 The invention further contemplates to arrange the engaging sides of different sizes so as to use the insulators for different gages of cables arranged therebetween.

25 Another object of the invention is to arrange the engaging faces on opposite sides of the insulator, so as to correspond with one another in case a series of cables of uniform size are laid in a series.

30 The present invention further consists of an insulator formed in two sections, each section of which is provided with engaging faces, but so arranged that they will correspond with one another when properly placed together.

35 With the above and other objects in view the invention consists in the novel combination and arrangement of parts to be hereinafter more fully described, and specifically pointed out in the claims.

40 In describing the invention in detail reference is had to the accompanying drawings, forming a part of this specification, and wherein like numerals of reference indicate corresponding parts throughout the several views, in which—

45 Figure 1 is a perspective view of my improved adjustable insulator. Fig. 2 is a vertical sectional view of one of the insulators

and illustrating a side elevation of the other. Fig. 3 is a top plan view of the lower section of the insulator, showing the upper section removed therefrom. Fig. 4 is a similar view 55 of the insulator, showing hexagonal sides. Fig. 5 is a similar view of the insulator, showing octagonal sides. Fig. 6 is a side view of one of the insulator-sections.

60 In the drawings the reference-numeral 1 indicates the block or base-plate, having arranged therein a longitudinal slot 2. In this slot are arranged a series of bolts 3, which are suitably spaced apart, said bolts at their lower ends carrying screw-threads 4 to receive nuts 5, having interposed between the said nuts and under face of the base-plate a washer 6. The reference-numeral 7 indicates the lower section of the insulators, mounted upon said bolts, and the numeral 8 indicates 70 the upper sections of the insulators, which are also mounted upon the bolts 3, said upper sections being normally held in position by means of washers 9, arranged upon the said bolts 3 and under the heads 10 of the bolts. 75 The reference-numerals 11 indicate semicircular cut-away portions, forming engaging faces for the cable 12. These cut-away portions may form four sides, six sides, eight sides, or a plurality of sides. The said cut- 80 away portions, arranged diametrically opposite each other, correspond with one another and form a series of different sizes to receive cables of various thicknesses. The insulators are made of porcelain or other suitable 85 insulating material.

The manner of applying my improved insulators to cables, wires, or the like will be readily understood by referring to the accompanying drawings, taken in connection with 90 the above description. In the aforesaid description I have described the insulators having sides which are smooth; but it will be readily understood that these sides may be corrugated to form a roughened surface for 95 the purpose of more firmly grasping and retaining the cables arranged therebetween, and I therefore do not wish to limit myself to this particular construction, but may make the sides either smooth or corrugated, as may 100 be desired.

It will be noted that various changes may

be made in the details of construction without departing from the general spirit of my invention.

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

1. A series of insulators having a plurality of engaging faces to receive various thicknesses of cables, substantially as described.
2. A series of laterally-adjustable insulators having a plurality of engaging faces to receive various thicknesses of cables, substantially as described.
3. A series of insulators formed in two sections having a plurality of engaging faces to receive various thicknesses of cables, as specified.
4. A series of laterally-adjustable insula-

tors formed in two sections having a plurality of engaging faces to receive various thicknesses of cables, as set forth.

5. A series of insulators having formed therein a plurality of engaging faces formed in pairs arranged diametrically opposite each other, substantially as set forth.

6. A series of insulators having formed therein a plurality of engaging faces of various sizes formed in pairs and arranged diametrically opposite each other, substantially as described.

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

HENRY D. MURDOCK.

Witnesses:

JOHN NOLAND,  
E. E. POTTER.