

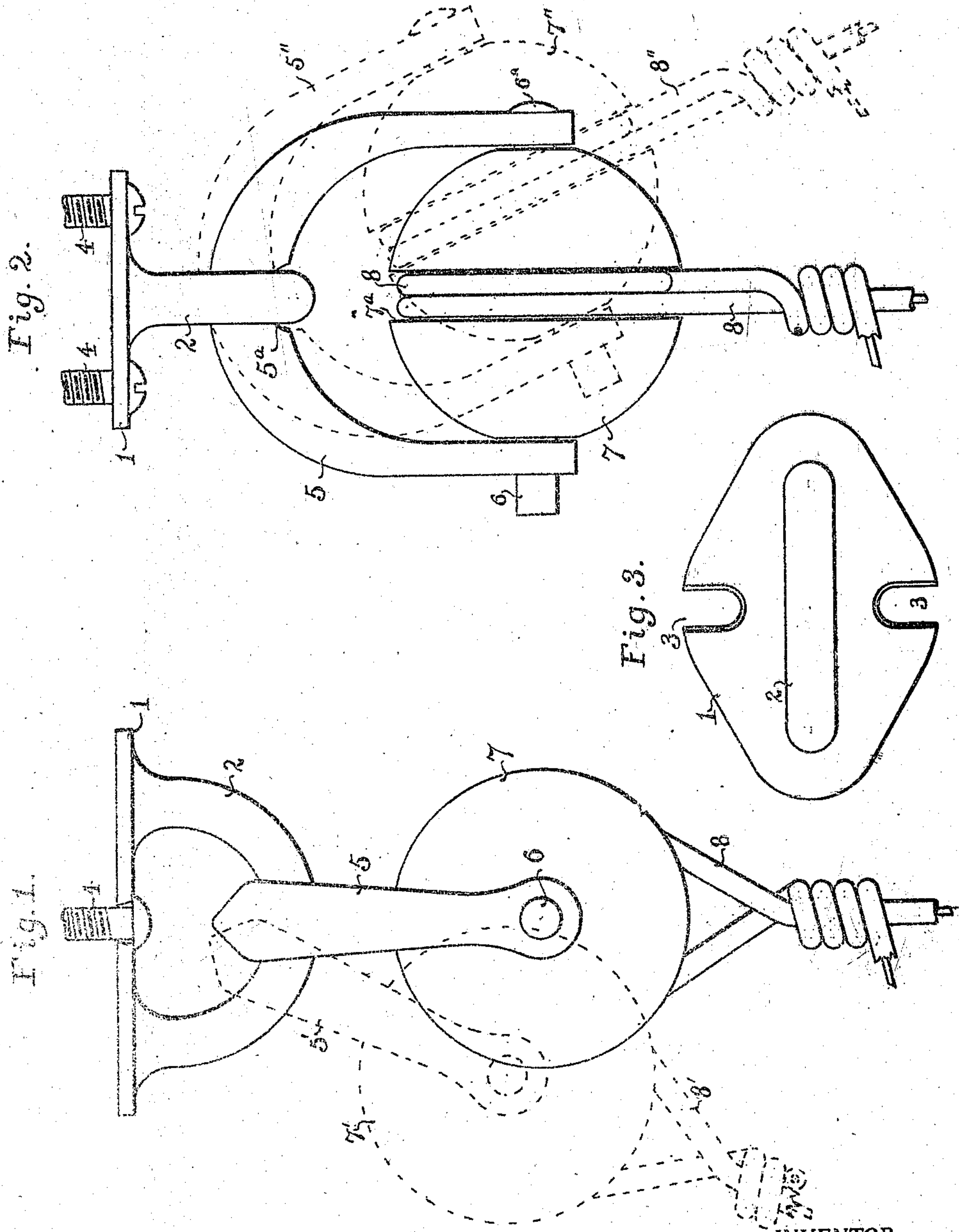
C. S. BURGE.

AUTOMATICALLY ADJUSTABLE STRAIN INSULATOR HOUSE FIXTURE.

APPLICATION FILED MAR. 17, 1909.

930,527.

Patented Aug. 10, 1909.



WITNESSES:

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# UNITED STATES PATENT OFFICE.

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## AUTOMATICALLY-ADJUSTABLE STRAIN-INSULATOR HOUSE-FIXTURE.

No. 930,527.

Specification of Letters Patent.

Patented Aug. 10, 1909.

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*To all whom it may concern:*

Be it known that I, CHARLES S. BURGE, a citizen of the United States, and a resident of Tacoma, in the county of Pierce and State of Washington, have invented certain new and useful Improvements in Automatically-Adjustable Strain-Insulator House-Fixtures, of which the following is a specification.

My invention relates to an improvement in automatically - adjustable, strain - insulator fixtures for attachment to houses, and is suited for general use as a strain-insulator fixture for attachment to a fixed support, but it is especially designed for furnishing suitable attachments for the insulators used for the house end of the "drop" from the main telephone or other electric wire line.

Hitherto, insulators adapted for a special use on the main line have been provided with automatically adjustable fixtures, but the house end of the "drop" requires a strain insulator, the attachments for which should lie in the line of strain and thus be capable of resisting the strain without the use of an undue amount of material and, at the same time, should be capable of self adjustment into said line of strain. My fixture satisfies these requirements.

My invention is illustrated in the accompanying sheet of drawings forming a part of this application, in which similar characters refer to similar parts throughout, and in which—

Figure 1 is a side elevation of my invention. Fig. 2 is a plan view of the same and Fig. 3 is a front elevation of the house plate and eye as shown in Fig. 1.

More specifically: 1 is a plate provided with slots 3, 3, through which screws 4, 4, are driven into the house or other fixed support. The distance between these slots is preferably such that both screws may find secure attachment in a 2x4 joist as used in ordinary frame houses. The plate 1 has the eye or staple 2 rigidly attached thereto and standing perpendicular therefrom and in a vertical plane when the fixture is properly attached as shown in plan view in Fig. 2. A clevis 5 provided with a central notch 5<sup>a</sup> is engaged with eye 2. Clevis 5 is furnished with a transverse hole through the end of each leg, said holes registering. A strain insulator 7 has a circumferential groove 7<sup>a</sup> and also has an axial hole. Said insulator is

placed between the legs of clevis 5, and a pin 6 having a head 6<sup>a</sup> is passed through the holes in both legs of said clevis and also through said axial hole in said insulator retaining the same in the fixture. The house end of the "drop" 8 is tied to the insulator 7, as illustrated.

In Fig. 1, besides the full-line position, another position of the drop, insulator and clevis is shown in dotted outlines at 7'. Similarly, in Fig. 2 another position of these parts is shown in dotted outline at 7''. It may be noted that, these parts can readily occupy any other position relative to plate 1 in which the strain on "drop" 8 may ordinarily require them to lie and yet the several parts of the fixture be in proper relation to resist said strain. When in use the strain from "drop" 8 on pin 6 is sufficient to retain the same in place in the clevis without further fastening than illustrated. The notch 5<sup>a</sup> in clevis 5 serves to maintain the eye 2 in engagement with this part of the clevis regardless of the position of the clevis, as at 5''. This insures that the line of strain will be always at right angles to pin 6, which is desirable.

Having thus described my invention, I claim,

1. In an automatically-adjustable, strain-insulator, house fixture, the combination of a plate having holes or slots suited for the reception of screws, an eye rigidly attached to said plate, a clevis suited to engage with said eye and having transverse registering holes suited to receive a pin, an insulator having a circumferential groove and an axial hole substantially at right angles to the plane of said groove, said hole being suited to receive a pin and said insulator being suited to lie in said clevis with said hole registering with the said holes in said clevis, and a pin adapted to lie in said holes in said clevis and said insulator and retain said insulator in said clevis.

2. In an automatically-adjustable, strain-insulator, house fixture, the combination of a plate having holes or slots suited for the reception of screws, an eye rigidly attached to said plate, a clevis suited to engage with said eye and having a central notch in its crotch suited to localize said engagement with said eye, also having transverse, registering holes suited to receive a pin, an insulator having a



circumferential groove and an axial hole substantially at right angles to the plane of said groove, said hole being suited to receive a pin and said insulator being suited to lie in said clevis with said hole registering with the said holes in said clevis, and a pin adapted to lie in said holes in said clevis and said insulator and retain said insulator in said clevis.

Signed at Bellingham, in the county of Whatcom and State of Washington, this 12 twelfth day of March A. D. 1909.

CHARLES S. BURGE.

Witnesses:

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