May 3, 1960 E. B. RAYMOND 2,935,726

UNIVERSAL BATTERY TERMINAL POST CLAMP

Filed June 22, 1959

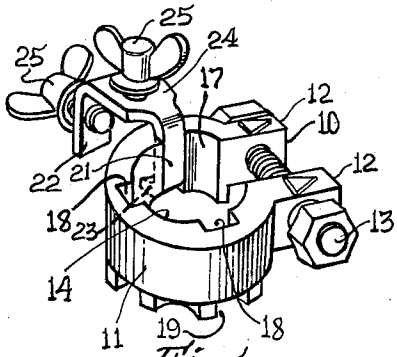


Fig. 1.

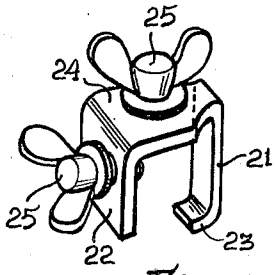


Fig. 2.

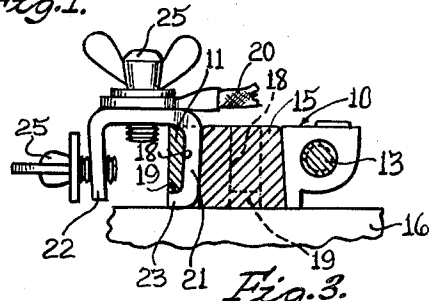


Fig. 3.

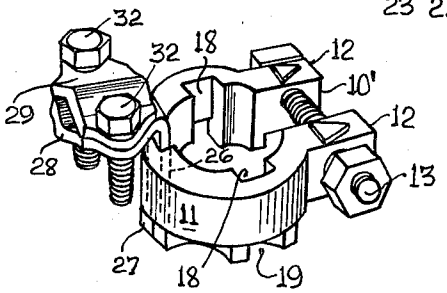


Fig. 4.

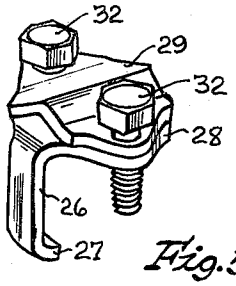


Fig. 5.

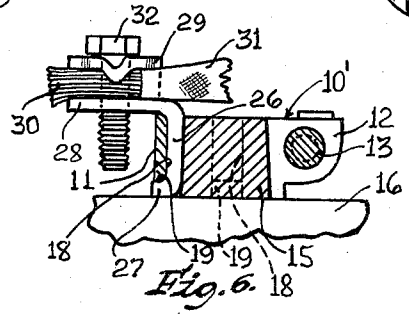


Fig. 6.

INVENTOR.
EUGENE R. RAYMOND
BY Wreedy & Wreedy.
HIS ATTORNEYS.

United States Patent Office 2,935,726 Patented May 3, 1960

2,935,726

UNIVERSAL BATTERY TERMINAL POST CLAMP

Eugene B. Raymond, Skokie, Ill.

Application June 22, 1959, Serial No. 822,013

3 Claims. (Cl. 339—231)

My invention relates to a universal battery terminal post clamp. By the term universal, I imply that the conductor wire or cable from the clamp can be connected at different radial and lateral positions with respect to the clamp according to the requirements of desirability and surrounding circumstances.

One of the objects of the invention is to provide such a clamp which will be simple in structure, economical in manufacture and one which can be assembled with a minimum requirement of labor.

Another and equally important object of this invention is the provision of a connector for connecting a conductor wire or cable to a clamp in which the connector has a portion interlocked between the clamp and the terminal post of the battery thereby providing simple means for securely connecting the connector to the clamp and post.

Other objects will appear hereinafter.

The invention consists in the novel combination and arrangement of parts to be hereinafter described and claimed.

The invention will be best understood by reference to the accompanying drawings showing the preferred form of construction and in which:

Fig. 1 is a perspective view of one form of the invention;

Fig. 2 is a perspective view of the connector embodied in the invention;

Fig. 3 is a vertical sectional view of a terminal post showing my invention associated therewith;

Fig. 4 is a perspective view of a modified form of the invention;

Fig. 5 is a perspective view of the connector embodied in the form shown in Fig. 4; and

Fig. 6 is a vertical sectional view of a terminal post showing the form of the invention shown in Fig. 4 associated therewith.

Referring to Figs. 1 to 3 inclusive, my invention comprises a clamp **10**, the main body portion **11** of which, is circular in plan view and is of the slit-type providing lateral lugs **12** connected together by a nut-bearing clamping bolt **13**.

The clamp **10** as well as the bolt **13** is formed of such material as will best serve the purpose. The central bore **14** of the body **10** is tapered upwardly and inwardly to conform to the shape of the terminal post **15** of a battery **16**.

Formed radially with respect to each other and in the inner surface **17** of the body **11** are vertical grooves **18** which terminate at their lower end portions into laterally extending recesses **19**. As shown in Fig. 1 there are three of such grooves.

The connector for connecting the conductor or wire or cable **20** to the post **15** comprises a U-shaped member providing opposite legs **21** and **22**. The leg **22** fits into any one of the grooves **18** and the lower end portion thereof is turned outwardly as at **23** to engage in the recess **19** of the groove into which the leg **21** is positioned. By this arrangement when the clamp **10** is

mounted upon the post **15** the connector will be interlocked to the post **15** and the clamp **10**. The top or bight portion **24** of the connector and the leg **21** each carry a wing-type threaded stud **25** for connecting the wire or cable to the connector.

There may be employed as many connectors as there are grooves **18**. By such an arrangement connections for accessories may be had with the storage battery. The wire or cable **20** may be connected to the connector by either of the threaded studs **25** thereby to accommodate itself to surrounding conditions.

In the form shown in Figs. 4 to 6 inclusive the clamp **10'** is of the same construction as the clamp **10** of the form shown in Figs. 1 to 3 inclusive. The difference in construction resides in the connector. In this form of the construction the connector provides a leg **26** which is similar to the leg **21** and like the leg **21** is mounted in one of the grooves **18** with its inturned end portion **27** fitting into the recess **19**. Extending from the leg **26** is a horizontal extension **28** which comprises together with a plate **29** a clamp between which the end portion **30** of the wire or cable **31** is connected. The two plates **28** and **29** are clamped together with the end portion **30** of the cable **31** therebetween by a pair of threaded bolts **32**. In the form of construction shown in Fig. 4 there may be employed at least three connectors two of which may be used for connecting accessory conductor wires to the post.

It appears from the foregoing that my invention is of simple construction capable of being assembled upon the terminal post with a minimum degree of effort.

The terminal clamp connector embodied in the invention provides a plurality of points of connection for conductor wires.

While I have illustrated and described the preferred form of construction for carrying my invention into effect, this is capable of variation and modification without departing from the spirit of the invention. I, therefore, do not wish to be limited to the precise details of construction set forth, but desire to avail myself of such variations and modifications as come within the scope of the appended claims.

Having thus described my invention, what I claim as new and desire to protect by Letters Patent is:

1. A universal battery terminal post clamp comprising a clamping member adapted for clamping embracement with the post and having a vertically extending groove formed in the side thereof opposite the vertical surface of the post, a conductor wire connector formed substantially U-shaped to provide a leg portion arranged to fit in the groove and a second leg portion spaced from the connector, said first named leg portion having an outwardly turned end portion and said member having a recessed portion to receive said outwardly turned portion, and means carried by said connector for optionally connecting a conductor wire at at least two positions with respect to the connector.

2. A universal battery terminal post clamp as defined in claim 1 in which the means for connecting said connector wire optionally to said points comprises wing nut stud screws threaded into said connector at said points.

3. A universal battery terminal post clamp as defined in claim 1 in which the means for connecting the conductor wire to the connector comprises confronting clamping plates and threaded means for connecting said plates together.

References Cited in the file of this patent

UNITED STATES PATENTS

1,679,677 Milne ---------- Aug. 7, 1928
2,815,496 Boone ---------- Dec. 3, 1959