This invention relates to antennas and particularly transmission lines of antennas to television and radio receivers, and in particular a receptacle having spaced pins aligned with sockets connected by a slot mounted in the closed end thereof with the sockets and slot formed to receive a lead-in of an antenna, and a bolt for securing the lead-in in the receptacle with the pins in contact with the strands of wire on the sides of the lead-in.

The purpose of this invention is to provide a positive connector for attaching wires of an antenna to the lead-in of a television or radio receiver wherein bare wires exposed to the weather, and the possibility of wires wrinkling off, are eliminated.

Various types of plugs, connectors, and couplings have been provided for connecting ends of electric wires, however, such devices are comparatively complicated and costly to manufacture and in substantially all instances the services of an electrician is required to make the connections. With this thought in mind this invention contemplates a receptacle designed to receive a band connection or lead-in of a television or radio receiver with pin members having pointed ends mounted in the receptacle and positioned to be wedged into contact with strands of wire on the edges of the band or lead-in.

The object of this invention is, therefore, to provide a connector for connecting a lead-in of a radio or television receiver to terminals of an antenna wherein a permanent installation is provided without the use of solder or twisted connections.

Another object of the invention is to provide a connector for attaching antenna leads to a band lead-in of a radio or television receiver in which the connection may be made by the average layman and provides an economical installation.

Another important object of the invention is to provide a connector for attaching antenna wires to a lead-in of a television or radio receiver which is so constructed that cold solder joints will not develop.

A further object of the invention is to provide a connector for television and radio receivers in which bare wires which may become exposed are not exposed to weather when the connector is used on outside installations of antennas.

A still further object of the invention is to provide a connector for radio and television antennas and lead-in bands which is of one piece construction and in which the possibility of shorting due to loose strands of wire is obviated.

And a still further object of the invention is to provide a receptacle for connecting the lead-in of television and radio receivers to antennas which is of a simple and economical construction.

With these and other objects and advantages in view the invention embodies a flat body having a slot with sockets at the ends extended inwardly from one end, pins with sharp points on inner ends mounted in the body, and a bolt extended through the body.

Other objects and advantages of the invention will appear from the following description taken in connection with the drawing, wherein:

FIGURE 1 is a perspective view illustrating the connector assembly showing a bolt removed from an opening through the body of the connector and also showing the lead-in of which the body of the connector is designed to receive.

FIGURE 2 is a longitudinal sectional view through the connector.

FIGURE 3 is a cross section through the connector taken on line 3—3 of FIGURE 2.

FIGURE 4 is a view showing a pin extended into one of the sockets of a band lead-in with strands of wire of the lead-in wedged against the inner surface of the bore of a circular formation on one side of a lead-in.

Referring now to the drawing wherein like reference characters denote corresponding parts the improved connector of this invention includes a body 10 having spaced longitudinally disposed sockets 11 and 12 extended inwardly from one end 13 and connected by a slot 14, pins 15 and 16 mounted in the body of the connector and aligned with the axes of the sockets 11 and 12, and a bolt 17 which is inserted through an opening 18 in the central part of the body 10 and also through an opening 19 in a web 20 of a band wire or lead-in having enlarged circular formations 21 and 22 at the sides in which wire strands 23 and 24, respectively, are positioned.

With the parts designed and assembled as illustrated and described an end of the lead-in or band including the wires 23 and 24 at the edges of the web 20 is inserted in the sockets 11 and 12 of the body 10 and forced over the pins 15 and 16 whereby the wire strands are wedge against the inner surfaces of the members 21 and 22 at the edges of the band. By this means a positive connection is provided and the lead-in or web is secured in the receptacle by the bolt 17 on the extended end of which the nut 25 is threaded.

With the parts secured together loops 26 and 27 on the ends of the pins 15 and 16 are secured by terminal screws 28 and 29 of a bar 30 and leads from the screws 28 and 29 are extended to an antenna.

The receptacle 10 may be formed of transparent plastic or other suitable material and with the pins 15 and 16 extended into ends of the wires or strands a substantially permanent connection is provided.

The connector may, however, be removed by removing the bolt 17.

It will be understood that modifications, within the scope of the appended claim, may be made in the design and arrangement of the parts without departing from the spirit of the invention.

What is claimed is:

A connector for an antenna lead-in comprising a body of one piece construction, said body having spaced parallel longitudinally extending sockets therein that are extended inwardly from one end thereof, said body also having a transversely extending slot therein communicating at its opposite ends with said sockets, pins having pointed inner ends and looped outer ends, with the pointed inner ends of said pins being extended into the opposite end of said body into said sockets and positioned to extend into the antenna lead-in and contact the wires therein that are positioned on the opposite ends of a web forming the antenna lead-in that is positioned in the slot
in said body for wedging the antenna lead-in in said
sockets and said slot, an opening extending through the
transverse central axis of said body, a bolt and nut assem-
by extended through said opening, the slot therein and
the web in the antenna lead-in, with the bolt and nut
assembly being positioned centrally of said sockets for
clamping the antenna lead-in in said body and for insur-
ing positive connections between the pins in said body
and the antenna lead-in.

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