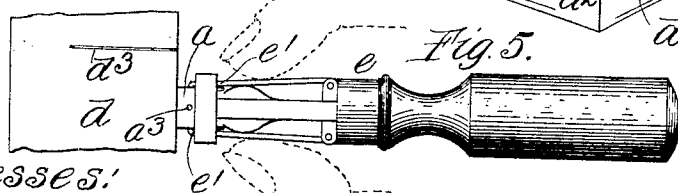
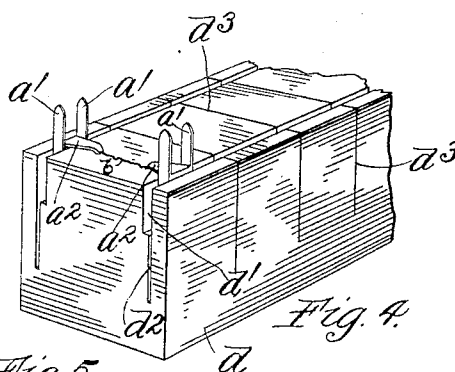
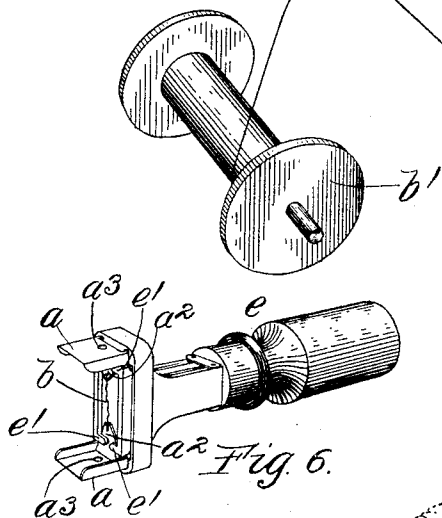
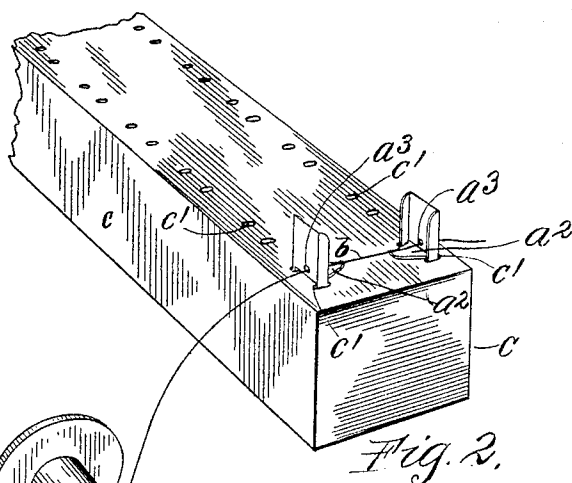
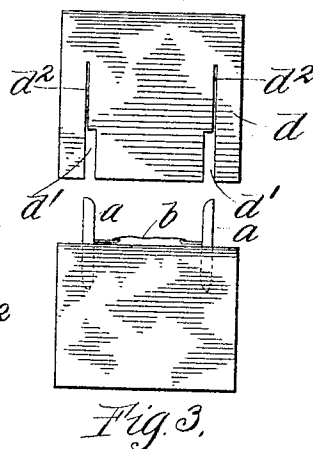
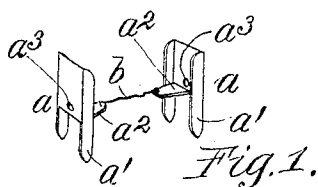


(No Model.)

W. W. DEAN.
MOUNTING FOR FUSES.

No. 581,456.

Patented Apr. 27, 1897.



Witnesses:
J. M. Sanner,
George L. Cragg.

Inventor:
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By Barton Brown,
Attorneys.

UNITED STATES PATENT OFFICE.

WILLIAM W. DEAN, OF ST. LOUIS, MISSOURI, ASSIGNOR TO THE BELL
TELEPHONE COMPANY OF MISSOURI, OF SAME PLACE.

MOUNTING FOR FUSES.

SPECIFICATION forming part of Letters Patent No. 581,456, dated April 27, 1897.

Application filed September 19, 1896. Serial No. 606,343. (No model.)

To all whom it may concern:

Be it known that I, WILLIAM W. DEAN, a citizen of the United States, residing at the city of St. Louis, in the State of Missouri, have invented a certain new and useful Improvement in Mountings for Fuses, (Case No. 15,) of which the following is a full, clear, concise, and exact description, reference being had to the accompanying drawings, forming a part of this specification.

My invention relates to mounting for fuse-wires; and its object is to provide convenient means for securing fuse-wires to the fuse-terminals without danger of breaking the more delicate wires.

My invention also comprises certain means for protecting the mounted fuses from breakage during handling or shipment.

In accordance with my invention the arms of a pair of fuse-terminals are inserted in a repairing-block, the terminals facing each other and projecting up above the surface of the repairing-block, which is of a size to accommodate several pairs. Each terminal is provided with ears, upon which the wire is intended to be secured, preferably by soldering. Holes or other guideways are provided in each terminal in alinement with the ears, and the fuse-wire from the spool is inserted through these holes or guideways, touching the ears of each terminal, when a drop of solder is applied and the superfluous ends of fuse-wire clipped off. Each pair of terminals in the repairing-block is thus supplied with a length of fuse-wire. In some cases the wire may be too soft and flexible to thread through the holes directly, when a suitable needle may be used for the purpose. A block of wood with slots cut in for the reception of the terminals is now forced down on them as they lie in the repairing-block, the slots grasping and retaining the ends of the terminals. When the block is lifted, the fuse-terminals remain therein and may be used directly from the block. This also forms a convenient packing in which to ship them to prevent breakage.

In an application executed and filed of even date herewith I describe and claim the wrench illustrated herein for removing the mounted fuses from the block without straining or breaking the fuse-wires.

My invention will be more readily understood by reference to the accompanying drawings, in which—

Figure 1 is a detail perspective view showing the fuse-wire mounted at either end upon the metallic fuse-terminal. Fig. 2 shows in perspective a portion of a repairing-block with one pair of fuse-terminals inserted therein and a fuse-wire placed in position before soldering. Fig. 3 is an end view of the repairing-block, a block of wood being placed above it in the act of being forced down upon the terminals in the repairing-block to withdraw them therefrom. Fig. 4 is a perspective view of the block for holding the mounted fuses. Fig. 5 is a plan view of a wrench in the act of withdrawing a mounted fuse from the block. Fig. 6 is a perspective view of the wrench with a mounted fuse in its jaws.

Like letters refer to like parts throughout the several figures.

The fuse-terminals *a a* (shown most clearly in Fig. 1) are formed with projecting arms *a'* *a'*, ears *a²* being bent at right angles thereto, to which the fuse-wire *b* has been soldered. A hole *a³* is provided in each terminal in alinement with the ear *a²*.

The method of securing the fuse-wire to the ears *a²* *a²* is as follows: The two terminals are set facing each other in the repair-block *c*, the arms *a' a'* of each terminal fitting into holes *c' c'*, provided in the block *c* for that purpose. Each set of holes in the repair-block accommodates a pair of fuse-terminals. The pairs of fuse-terminals may be successively supplied with fuse-wire. The wire *b* from the spool *b'* may be now threaded through the holes *a³* and passed over the tops of ears *a²*. A drop of solder will secure the wire to each ear, when the ends may be clipped off and the next pair of terminals treated in like manner. When each pair of terminals is fitted with a fuse, the wooden block *d* may be inverted, as shown in Fig. 3, and pressed down upon the rows of terminals. Slots *d' d'* in the block engage the ends of the terminals, and when the block is withdrawn the terminals come with it, sticking in the slots, as shown in Fig. 4. The slots *d' d'* are provided with extensions *d² d²*, which serve to give greater elasticity to the clamping parts of the

block. Transverse slots d^3 d^3 are also provided in the block d , which are for the purpose of individualizing the clamping parts and forming separate receiving-sections for the fuse-terminals. If the walls of the slot d' were continuous and solid throughout their length, some of the terminals would be loosely and insecurely held, owing to the variation in their size, the terminals of larger width serving to remove the walls of the slot d' from engagement with the terminal of lesser width. By providing the transverse slots d^3 the separation of the portions of the walls of the slot d' engaged by a terminal will not effect the remaining clamping portions of said walls.

A wrench e may be employed for removing the mounted fuses from the block d , holes being provided in the wrench for the reception of the arms a' a' of the terminals, jaws e' being used to engage the ears a^2 a^2 of the terminals, as shown in Figs. 5 and 6.

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

1. In a mounting for fuse-wires, the combination with a fuse-terminal, of an ear located thereon to which the fuse-wire may be secured, a guideway being provided in or upon

said terminal adapted to receive the fuse-wire and to direct it upon said ear, means for securing the fuse-wire to said ear, a second fuse-terminal and means for securing said fuse-wire thereto, substantially as described.

2. In a mounting for fuse-wires, the combination with a fuse-terminal, of an ear formed thereon to which the fuse-wire may be secured, a guideway being provided in or upon said terminal in alinement with said ear through which the fuse-wire may be inserted to come into contact with said ear, means for securing the fuse-wire to said ear, a second fuse-terminal, and means for securing the fuse-wire thereto, substantially as described.

3. A protecting device for fuse-terminals consisting of a block d , having a slot adapted to receive said terminals and a transverse slot or slots d^3 which divide said block into separate receiving-sections, substantially as and for the purpose specified.

In witness whereof I hereunto subscribe my name this 16th day of September, A. D. 1896.

WILLIAM W. DEAN.

Witnesses:

GEORGE P. BARTON,
GEORGE L. CRAGG.