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S. O. DODGE ET AL

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HARNESS CORD FOR LOOMS

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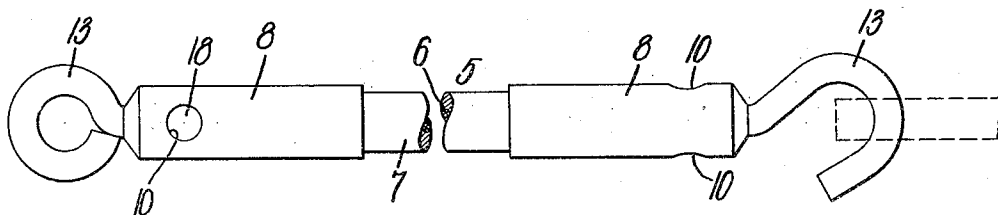


Fig. 1.

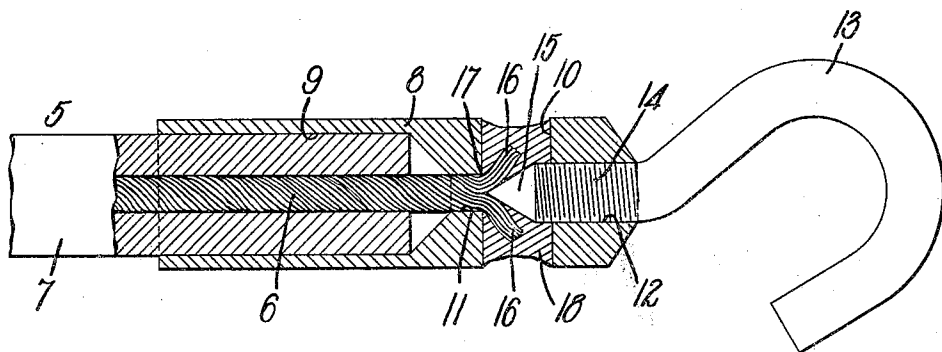


Fig. 2.

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HARNESS CORD FOR LOOMS

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This invention relates to an improved harness cord for looms, sometimes known as a dobby cord, and employed to connect the top of the harness with the harness lever.

5 The object of the invention is to provide a harness cord which will be strong and durable; and to attain this end the invention contemplates the employment of an improved ferrule by means of which the flexible portion of the cord is secured to a suitable screw device which may have either a hook or an eye embodied therein.

The invention consists in a harness cord for looms as set forth in the following specification and particularly as pointed out in the claims thereof.

Referring to the drawing:—

Fig. 1 represents a front elevation of a harness cord embodying our invention, the central portion of the cord being broken away to save space in the drawing.

Fig. 2 represents an enlarged sectional elevation of one end portion of the cord.

Like numerals refer to like parts throughout the several views of the drawing.

In the drawing, 5 is a cord embodying therein a core 6, preferably consisting of a plurality of flexible wire strands. The core 6 is covered with a covering of textile material 7 which is preferably braided in a well-known manner. Located at each end of the cord 5 is a ferrule 8 provided with a recess 9 projecting inwardly from one end thereof, into which the end portion of the cord is inserted with an end portion of the core 6 projecting a short distance beyond the extremity of the braided covering 7.

A passage 10 extends transversely through the ferrule 8 at an intermediate point thereof, and this passage 10 communicates with the inner extremity of the recess 9 through a passage 11, the center of which is coincidental with the longitudinal median line of the ferrule. A screw-threaded hole 12 is also provided in the opposite end portion of the ferrule from that upon which the recess 9 is located and also communicates with the transverse passage 10.

A screw device 13, which may have a hook embodied therein as illustrated at the right

hand end of Fig. 1 or an eye embodied therein as illustrated at the left hand end of Fig. 1, is provided with a screw-threaded portion 14 which is located in the hole 12, and also has a tapered end 15 provided thereon which projects into the transverse passage 10. The tapered portion 15 of the screw device 13 is provided for the purpose of engaging the end portions of the strands 6 and deflecting the same laterally, as illustrated at 16, in the transverse passage 10 and thereby forcing certain of said strands against a shoulder 17 which is formed at the intersection of the passages 10 and 11. After the end portions 16 of the strands have been deflected, a greater portion of the passage 10 is filled with a suitable fusible material 18, preferably solder, which is caused to adhere to the exposed portions of the strands 16, the wall of the passage 10 and the inner extremity of the screw device 13. The end portions 16 of the strands 6 are therefore first securely clamped against the shoulder 17 and then enclosed within a covering of fusible material in such a manner that it is impossible to pull the cord 5 out of the ferrule, and it has been found that when excessive pressure is applied to the cord that it will break between the ferrules before it will pull out of the same or break at the shoulder 17. At the same time the fusible material 18 will prevent the screw device 13 from rotating within the ferrule and thereby become loosened from the end portion of the core 6.

We claim:

1. A harness cord for looms embodying therein a core of flexible wire, a ferrule enclosing an end of said cord and provided with a transverse opening therein, said wire terminating in said opening, a screw device mounted in said ferrule and engaging the end of the wire and deflecting the latter in the opening, and a fusible material in the opening and surrounding the deflected portion of the wire.

2. A harness cord for looms embodying therein a core of flexible wire strands, a ferrule enclosing an end of said cord and provided with a passage extending transversely therethrough, said wire terminating in said passage, and a screw device mounted in said ferrule and embodying therein a tapered ex-

tremity, the latter engaging the end portions of the strands and deflecting the same laterally in the transverse passage.

3. A harness cord for looms embodying
5 therein a core of flexible wire strands, a ferrule enclosing an end of said cord and provided with a passage extending transversely therethrough, said wire terminating in said
10 passage, a screw device mounted in said ferrule and embodying therein a tapered extremity, the latter engaging the end portions of the strands and deflecting the same laterally in the transverse passage, and a fusible
15 material in the transverse passage and adhering to the deflected portions of the strands.

4. A harness cord for looms embodying therein a core of flexible wire strands, a ferrule enclosing an end of said cord and provided with a longitudinal passage therein in
20 which the cord is located and with a transverse passage intersecting said longitudinal passage, said strands terminating in the transverse passage, and a screw device mounted in said ferrule and embodying therein a tapered
25 extremity, the latter engaging the end portions of the strands and deflecting the same in the transverse passage.

5. A harness cord for looms embodying therein a core of flexible wire strands, a ferrule enclosing an end of said cord and provided with a longitudinal passage therein in
30 which the cord is located and with a transverse passage intersecting said longitudinal passage, there being a shoulder provided at the intersection of said passages, said strand
35 terminating in the transverse passage, a screw device mounted in said ferrule and embodying therein a tapered extremity, the latter engaging the strands and clamping the same
40 against said shoulder and deflecting the end portions thereof laterally in the transverse passage, and a fusible material in the transverse passage and adhering to the exposed
45 portion of said passage, to the strands, and to the screw device.

In testimony whereof we have hereunto set our hands.

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