PATENT SPECIFICAT



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COMPLETE SPECIFICATION.

Cord Pulley for Metal Construction Sets.

We, TRIX LIMITED, a Company registered under the Laws of Great Britain, of 4. Golden Lane, London, E.C.1, Assignees VEREINIGTE SPIELWAREN-FABRIKEN 5 Andreas Förtner & J. Haffner's NACHFOLGER GESELLSCHAFT MIT BESCH-RAENKTER HAFTUNG, of 15, Koberger-strasse, Nuremberg, Germany, a Company registered under the laws of Germany, do 10 hereby declare the nature of this invention and in what manner the same is to be performed, to be particularly described and ascertained in and by the following statement :-

This invention relates to a cord pulley for metal construction sets and composed of two stamped sheet metal discs with conical interior recesses. In the known wheels or pulleys, these recesses are 20 intended to constitute a hub for the passage of a shaft. In order to secure such a wheel on the shaft it is necessary either to thicken the metal discs at the places forming the hub, so that—as in the case of cast cord pulleys—a grub screw can be introduced, or else to push the wheel on to the shaft, with a tight fit, in which case detachment becomes difficult. According to the present invention, the fitting of 30 such pulleys on to their shaft in a secure but detachable manner, is effected by means of an eccentric ring which is slipped over the shaft into a position between the two conical recesses and presses 35 tightly against the shaft when the two discs are bolted together, thus securing the pulley on the shaft. Accordingly the securing device consists solely of a simple stamped-out ring, which is far cheaper to produce than the thickening of the hub members and drilling a screw hole. At the same time, the grubscrew and screw driver are dispensed with, so that only the screws needed for bolting the two discs together 45 are required. The sheet metal discs can also be used as independent structural members, such as end plates for model

boilers, bearing plates and the like. The invention will be clearly understood 50 from the following description aided by the accompanying drawings in which a cord pulley is illustrated as an elevation in Figure 1 and in cross section in Figure 2, whilst Figure 3 shows an elevation of

the eccentric fixing ring.

The stamped sheet metal discs 1 and 2 are bent over at an angle on their outer edges 3, 3a which is succeeded, towards the centre, by a flat intermediate zone merging into a conical recess 4, 4a followed by a flat central zone 5, 5a. The central zone 5, 5a of each of the discs 1 and 2 is provided with a hole 6, 6a through which the shaft 7 is passed. This shaft

carries an eccentrically pierced ring 8.

The cord pulley is assembled and secured on the shaft 7, by slipping the two discs 1 and 2, with the intermediately disposed ring 8, over the shaft 7 and securing them together by means of several screws 9 and nuts 10. Tightening up the nuts causes the conical walls 4, 4a to press against the eccentric ring 8 and force its inner face 11 firmly against the periphery of the shaft 7, thereby firmly securing the cord pulley 1, 2 on the shaft. The turned up rims 3, 3a provide the angular groove needed for the accommodation of the

Having now particularly described and ascertained the nature of our said invention and in what manner the same is to be performed, we declare that what we claim is:-

1. Cord pulley, composed of two stamped sheet metal discs, provided with conical interior recesses, for metal construction sets, characterised by an eccentric ring which is slipped over the shaft into position between the two conical recesses and presses tightly against the shaft, so as to fix the cord pulley thereon, when the two discs are secured together.

2. A cord pulley for metal construction sets, constructed substantially as described with reference to the accompanying drawings.

Dated this 16th day of July, 1932. H. GARDNER & SON, Chartered Patent Agents,

173-4-5, Fleet Street, London, E.C. 4, Agents for the said Applicants,

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[This Drawing is a reproduction of the Original on a reduced scale.]

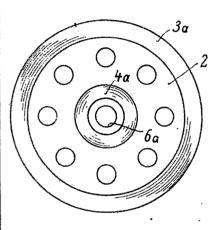


Fig. 1

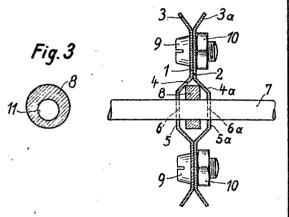


Fig. 2