

Title (en)

FIXING DEVICE AND METHOD BETWEEN A STRUCTURAL ELEMENT AND A SUSPENSION CABLE

Title (de)

ANORDNUNG UND VERFAHREN ZUM VERBINDEN EINES BAUELEMENTS UND EINER KABELSTRUKTUR

Title (fr)

DISPOSITIF ET PROCEDE DE FIXATION ENTRE UN ELEMENT DE CONSTRUCTION ET UN CABLE DE STRUCTURE

Publication

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Application

**EP 99961108 A 19991220**

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- EP 99401563 A 19990623
- FR 9903200 W 19991220
- FR 9816448 A 19981224

Abstract (en)

[origin: EP1013830A1] Mounting and anchor for a cable, at a structure, has a rigid housing (2) at the structure which shrouds the cable strands (6) at least partially. A wedge clamp system (3) is between the cable strands and the housing. A clamping assembly (4,13,14) applies a longitudinal compression on the wedge structure (3) to build up a resistance to a movement by the housing and the wedge parallel to the cable. Preferred Features: A clamping assembly (4,13,14) applies a longitudinal compression on the wedge structure (3), to press it against the cable strands and the housing to build up a resistance to a movement by the housing and the wedge parallel to the cable. The clamping force is applied by at least one unit (13), parallel to the cable, locked (14) under tension at the ends of the wedge (3). The longitudinal tensioner passes through or around the wedge structure (3), to the outer sides of the housing (2). The tensioner can be a screw bolt, through a threading in the housing, bearing against an end of the wedge. The housing (2) is a monobloc structure, wholly shrouding a cable section. The wedge (3) can be distorted, using an elastic, granular and/or fiber material. A setting unit passes through the housing interior, at right angles to the cable, to contain the wedge (3) vol. The wedge has a truncated cone shape jaw of a plastics material, fitting into a matching opening within the housing. The clamping forces are applied to the wedge at its max. dimensions, to give a movement action towards the smaller section. At least one wedge is against the small section of the truncated cone jaw. A glass fiber fabric is inserted between the cable and the wedge structure and/or between the cable strands. The cable is protected by at least one sheath of a plastics material, with a rigid intermediate layer between the wedge and the cable sheath. The intermediate layer spreads the forces of the distorting wedge at right angles to the cable. The housing has a continuous joint system of an outer sheath round the cable. An Independent claim is included for mounting a suspension bridge support cable, where a rigid housing (2) is fitted round the cable, with an inner wedge structure which is forced against the cable with distortion to give a locked fit. Preferred Features: The cable is strung between two support pylons with the anchor mountings for the bridge support cables.

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