

Title (en)  
TIE ROD.

Title (de)  
ERDANKER.

Title (fr)  
TIRANT.

Publication  
**EP 0057714 A1 19820818 (DE)**

Application  
**EP 81902292 A 19810813**

Priority  
DE 3030634 A 19800813

Abstract (en)  
[origin: WO8200672A1] The tie rod comprises a screwing disc (3) and a hollow anchoring rod (2) pointed at one end (5) and having an attachment device (6) with a support plate (7) at its upper end (4). The support plate (7) is slidingly mounted and coaxially to the anchoring rod (2). On the anchoring rod (2) there is mounted a moving foot (15) between the screwing disc (3) and a stop (29). The foot (15) has a sleeve (16) movable on the anchoring rod (2); on the sleeve (16), supports (17a, 17b, 17c) are arranged radially. The support surfaces (18a, 18b, 18c) of the supports (17a, 17b, 17c) are directed towards the screwing disc (3) and go beyond said disc in the radial direction. An outer thread (32) is formed on the anchoring rod (2); a nut (31) is screwed on this threading. The nut (31) may be secured on the upper surface (33) of the sleeve (16) of the foot (15). A threaded sleeve (8) is arranged at the upper end (4); within this sleeve, a threaded bolt (9) is introduced. The support plate (7) is fixed at the free end (10) of the threaded bolt (9).

Abstract (fr)  
Le tirant comporte un disque de vissage (3) et une tige d'ancrage creuse (2), taillée en pointe a une extremite (5) et presentant un dispositif de fixation (6) avec une plaque d'appui (7) a son extremite superieure (4). La plaque d'appui (7) est montee de maniere coulissante et coaxialement a la tige d'ancrage (2). Sur la tige d'ancrage (2) est monte un pied mobile (15), entre le disque de vissage (3) et une butee (29). Le pied (15) presente un manchon (16) deplacable sur la tige d'ancrage (2); sur ce manchon (16), des supports (17a, 17b, 17c) sont disposes radialement. Les surfaces d'appui (18a, 18b, 18c) des supports (17a, 17b, 17c) sont diriges en direction du disque de vissage (3) et depassent celui-ci radialement. Un filetage exterieur (32) est forme sur la tige d'ancrage (2); un ecrou (31) est dispose sur ce filetage. L'ecrou (31) peut etre immobilise sur la surface superieure (33) du manchon (16) du pied (15). Un manchon filete (8) est dispose a l'extremite superieure (4); dans ce manchon, est introduit un boulon filete (9). La plaque d'appui (7) est fixe a l'extremite libre (10) du boulon filete (9).

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IPC 8 full level  
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