

Title (en)  
Novel technique for stay cable system

Title (de)  
Schrägseilssystem

Title (fr)  
Système de haubannage

Publication  
**EP 1001089 B1 20030709 (EN)**

Application  
**EP 98119471 A 19981015**

Priority  
EP 98119471 A 19981015

Abstract (en)  
[origin: EP1001089A1] A stay cable system, which is exclusively for the tendons with parallel strands (I) covered by a sheath pipe (Ib), comprises main anchorage sockets (1), auxiliary anchorage sockets (2), anchoring tie beam (3), anchoring bed (4) that is used for girders other than steel I-girder or for pylon anchoring structure other than tie beam, dehumidification protection system (5a) - (5g). Main features of the system are: 1) Anchoring holes in anchorage sockets (1, 2) are divided into two symmetrical groups (1a, 1b, 2a, 2b), so that main anchorage socket (1) can reliably be arranged at bottom part of any kind of girders holding cable axis coincided with girder web and double half-cylindrical auxiliary anchorage sockets (2) can be arranged on both sides of the web in steel I-girder (II), in anchoring tie beam (3) or in steel anchoring bed (4). 2) Based on the help of auxiliary anchorage sockets, in which parallel strands are anchored or bonded individually, ordinary jaws can reliably be used in main anchorage socket while individual strand replacement is allowable. 3) Dehumidification protection system keeps all parts of strands (I, Ia - not to be cut off after final jacking) under observable, controllable and reliable protected condition, which also facilitates individual strand replacement. <IMAGE>

IPC 1-7  
**E01D 19/14**; **E01D 19/16**

IPC 8 full level  
**E01D 19/14** (2006.01); **E01D 19/16** (2006.01)

CPC (source: EP)  
**E01D 19/14** (2013.01); **E01D 19/16** (2013.01)

Cited by  
EP1435413A1; CN110259246A; CN103981807A; CN113774790A; CN109295861A; CN107988907A; CN107034785A; CN108589530A; CN107794842A; CN115977260A; CN110725203A; CN117403561A; CN103074851A; CN108842619A; CN111778852A; CN103437284A; CN107558352A; CN108691273A; CN115110418A; EP1809812B1

Designated contracting state (EPC)  
AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE

DOCDB simple family (publication)  
**EP 1001089 A1 20000517**; **EP 1001089 B1 20030709**; AT E244794 T1 20030715; CN 1266928 A 20000920; CN 1266929 A 20000920; CN 2412028 Y 20001227; CN 2412029 Y 20001227; DE 69816303 D1 20030814

DOCDB simple family (application)  
**EP 98119471 A 19981015**; AT 98119471 T 19981015; CN 99117134 A 19991012; CN 99117135 A 19991012; CN 99238963 U 19991012; CN 99238964 U 19991012; DE 69816303 T 19981015