

Title (en)  
Reinforced console column and the method of its production

Title (de)  
Verstärkte Säule mit Konsole und dessen Herstellungsverfahren

Title (fr)  
Poteau renforcé avec console et méthode de réalisation

Publication  
**EP 1705313 A2 20060927 (EN)**

Application  
**EP 05466004 A 20050324**

Priority  
• CZ 2004412 A 20040324  
• CZ 2004413 A 20040324

Abstract (en)  
The reinforced column (1) consists of a column section (2) with a hole bored through the column section (2), into which an anchor element (6) is mounted, and the ends of at least two prestressed guys (8) are anchored to the anchor elements (6) on each side of the column section, the guy (8) goes through the respective holes in the anchor element (6) and the other end of the prestressed guy (8) is firmly anchored in the anchor (10) in the foundation (5) and further at least one duct (12) is made in the console (3) vertically to the column axis (1) going through the console (3) and the adjacent part of the column strut, the prestressed clamping cable (13) or bar is arranged in the duct, both ends of which are provided with anchor sockets (15) mounted to the anchor plates (14). By the process of manufacture the guy (8) is anchored on both sides of the column section with one end in the foundation and with the other one in the anchor element (6) which is to be created in the upper part of the column section, subsequently the guy (8) is prestressed either parallel with the axis of the column section or angle-wise, and a duct will be made in the console, vertical to the column axis, going through the console and the adjacent part of the column strut, afterwards a clamping cable (s) (13) or bar is arranged in the duct (12) and subsequently prestressed and anchored on both ends.

IPC 8 full level  
**E04G 23/02** (2006.01); **E04B 1/22** (2006.01)

CPC (source: EP)  
**E04G 23/0218** (2013.01); **E04G 23/0225** (2013.01); **E04H 12/16** (2013.01)

Cited by  
CN103669895A; CN111255258A; US2022178158A1; US11674323B2; CN111356812A; WO2011110749A1

Designated contracting state (EPC)  
AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IS IT LI LT LU MC NL PL PT RO SE SI SK TR

DOCDB simple family (publication)  
**EP 1705313 A2 20060927**; **EP 1705313 A3 20070926**; **EP 1705313 B1 20091202**; AT E450680 T1 20091215; DE 602005018016 D1 20100114; PL 1705313 T3 20100531

DOCDB simple family (application)  
**EP 05466004 A 20050324**; AT 05466004 T 20050324; DE 602005018016 T 20050324; PL 05466004 T 20050324