

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

Title (de)
Verstärkter Pfosten mit Konsole und dessen Herstellungsverfahren

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

Publication
EP 1705313 A3 20070926 (EN)

Application
EP 05466004 A 20050324

Priority
• CZ 2004412 A 20040324
• CZ 2004413 A 20040324

Abstract (en)
[origin: EP1705313A2] 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)

Citation (search report)
• [A] SU 931905 A1 19820530 - VASILEV MIKHAIL A
• [A] GB 1271024 A 19720419 - ELLON A G [CH]
• [A] US 2003000165 A1 20030102 - TADROS MAHER K [US], et al

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

Designated contracting state (EPC)
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