

Title (en)

Method of drafting prestressed concrete structures

Title (de)

Verfahren zum Entwerfen von vorgespannten Betonstrukturen

Title (fr)

Procédé de tri de structures en béton précontraint

Publication

**EP 2333186 A1 20110615 (EN)**

Application

**EP 09014900 A 20091201**

Priority

EP 09014900 A 20091201

Abstract (en)

A method of drafting a prestressed concrete structure comprises the steps of: a) modeling the problem of finding optimum parameters of prestressing strands in the prestressed concrete structure in a mathematical optimization problem; and b) using a preferably gradient-based numerical search method to solve the mathematical optimization problem.

IPC 8 full level

**E01D 21/00** (2006.01); **E04C 5/00** (2006.01)

CPC (source: EP US)

**E01D 21/00** (2013.01 - EP US); **E04C 5/08** (2013.01 - EP US)

Citation (search report)

- [A] WO 0127406 A1 20010419 - INTERCONSTEC CO LTD [KR], et al
- [X] APARICIO ET AL: "Computer aided Design of prestressed Concrete highway Bridges", COMPUTERS & STRUCTURES, vol. 60, no. 6, S0045, 31 December 1996 (1996-12-31), Great Britain, pages 957 - 969, XP002606802

Cited by

CN114781099A; CN104271839A; WO2014046489A1

Designated contracting state (EPC)

AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO SE SI SK SM TR

Designated extension state (EPC)

AL BA RS

DOCDB simple family (publication)

**EP 2333185 A1 20110615**; **EP 2333185 B1 20180613**; EP 2333186 A1 20110615; US 2011126366 A1 20110602

DOCDB simple family (application)

**EP 10015211 A 20101201**; EP 09014900 A 20091201; US 95595310 A 20101130