

Title (en)

GIRDER FOR A SUPPORT WALL CURTAIN

Title (de)

TRÄGER FÜR EINEN STÜTZMAUERVORHANG

Title (fr)

POUTRELLE POUR UN RIDEAU DE SOUTÈNEMENT

Publication

EP 1689939 B2 20160525 (FR)

Application

EP 04817205 A 20041014

Priority

- EP 2004052549 W 20041014
- LU 91043 A 20031014

Abstract (en)

[origin: WO2005038148A1] The inventive girder (10) for a support wall curtain comprises a core (12) and two parallel wings (14, 16) which are supported by said core and provided with connection means (20). Said wings (14, 16) are reinforced on the largest part of the width thereof on the side opposite to the core (12) by an excessive material thickness which starts only at a certain distance (d1) from the longitudinal edges of the wing, thereby leaving the thinner wing ends (21) carrying said connection means (20) free. The non-reinforced ends (21) of the wings make it possible to use a conventional connection systems (18) in order to integrate such a girder (10) provided with a high resistant module into the support wall curtains.

IPC 8 full level

E02D 5/04 (2006.01); **E02D 5/08** (2006.01)

CPC (source: EP US)

E02D 5/04 (2013.01 - EP US); **E02D 5/08** (2013.01 - EP US)

Citation (opposition)

Opponent :

- WO 2005025770 A1 20050324 - PEINER TRAEGER GMBH [DE], et al
- EP 0072118 A1 19830216 - DAWSON CONST PLANT LTD [GB]
- DE 3102631 A1 19820121 - KAWASAKI STEEL CO [JP]
- WO 9739193 A1 19971023 - PROFILARBED SA [LU], et al
- DE 9200021 U1 19920227
- DE 4205455 C1 19930902
- PREUSSAG STAHL AG: "Katalog Peiner Spundwand", 1994, PREUSSAG STAHL AG, SALZGITTER, pages: 7,8,18
- BAER OTTO: "Stählerne Kastenspundbohlen", 1953, TECHNISCHE HOCHSCHULE, BRAUNSCHWEIG, pages: 1 - 123
- Entscheidung Widerruf EP 1 660 249 (B1)

Designated contracting state (EPC)

AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IT LI LU MC NL PL PT RO SE SI SK TR

DOCDB simple family (publication)

WO 2005038148 A1 20050428; AT E553265 T1 20120415; EP 1689939 A1 20060816; EP 1689939 B1 20120411; EP 1689939 B2 20160525; ES 2385039 T3 20120717; LU 91043 B1 20050415; PL 1689939 T3 20120928; US 2007077129 A1 20070405; US 7549823 B2 20090623

DOCDB simple family (application)

EP 2004052549 W 20041014; AT 04817205 T 20041014; EP 04817205 A 20041014; ES 04817205 T 20041014; LU 91043 A 20031014; PL 04817205 T 20041014; US 57567804 A 20041014