

Title (en)

Spanning member with convoluted web, C-shaped flanges, and end plate (Z beam)

Title (de)

Längsträger mit einem gewickelten Steg, C-förmigen Flanschen und Endplatte

Title (fr)

Poutre à grande portée avec âme ondulée, brides en forme de C et plaque d'extrémité

Publication

**EP 1061196 A3 20010606 (EN)**

Application

**EP 00301369 A 20000222**

Priority

US 33620799 A 19990618

Abstract (en)

[origin: EP1061196A2] A spanning or beam member for use in construction having a pair of opposing C-shaped flanges and a corrugated web. Laterally extended protrusions of the web strengthens the beam member by stiffening the web and increasing the load bearing forces that may be carried by the beam member without crushing. The C-shape of the flanges allows welding of the flanges to the protrusions of the web to reduce the unbraced and unstiffened size of the compression elements to allow for construction of beam members of a given strength out of thinner sheet material. An end plate secures to the opposing flanges and to the corrugated web interposed therebetween, providing a superior means for interconnecting the beam members. <IMAGE>

IPC 1-7

**E04C 3/07**; **E04G 11/50**

IPC 8 full level

**E04C 3/16** (2006.01); **E04C 3/07** (2006.01); **E04G 11/50** (2006.01); **E04G 17/14** (2006.01); **E04C 3/04** (2006.01)

CPC (source: EP KR US)

**E04C 3/07** (2013.01 - EP US); **E04C 3/16** (2013.01 - KR); **E04G 11/50** (2013.01 - EP US); **E04G 17/14** (2013.01 - EP US); **E04C 2003/0413** (2013.01 - EP US); **E04C 2003/0434** (2013.01 - EP US); **E04C 2003/0452** (2013.01 - EP US); **E04C 2003/0473** (2013.01 - EP US)

Citation (search report)

- [XY] EP 0900894 A2 19990310 - WILIAN HOLDING CO [US]
- [YD] US 4964256 A 19901023 - MCCracken ROBERT G [US]
- [A] GB 1358261 A 19740703 - ACROW ENG LTD

Cited by

AU2008241350B2; WO2008128275A1

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 1061196 A2 20001220**; **EP 1061196 A3 20010606**; **EP 1061196 B1 20051019**; AR 018996 A1 20011226; AT E307239 T1 20051115; BR 0002627 A 20010102; CA 2303040 A1 20001218; CA 2303040 C 20050208; CO 5271763 A1 20030430; DE 1061196 T1 20011025; DE 60023210 D1 20051124; DE 60023210 T2 20060720; JP 2000356005 A 20001226; JP 3294581 B2 20020624; KR 100379358 B1 20030408; KR 20010006718 A 20010126; PE 20001409 A1 20001125; TW 448259 B 20010801; US 2003167724 A1 20030911

DOCDB simple family (application)

**EP 00301369 A 20000222**; AR P000101644 A 20000410; AT 00301369 T 20000222; BR 0002627 A 20000612; CA 2303040 A 20000329; CO 00045157 A 20000616; DE 00301369 T 20000222; DE 60023210 T 20000222; JP 2000036665 A 20000215; KR 20000010054 A 20000229; PE 0003002000 A 20000405; TW 89107719 A 20000425; US 33620799 A 19990618