

Title (en)
BUCKLING RESTRAINED BRACE WITH LIGHTWEIGHT CONSTRUCTION

Title (de)
KNICKSICHERE KLAMMER MIT LEICHTBAUWEISE

Title (fr)
ÉTANÇON À FLAMBAGE RESTREINT À CONSTRUCTION DE FAIBLE POIDS

Publication
EP 2800842 A4 20151111 (EN)

Application
EP 13733695 A 20130104

Priority
• US 201261584066 P 20120106
• US 2013020364 W 20130104

Abstract (en)
[origin: WO2013103878A1] A buckling restrained brace comprises a core member, core restrainer member sections and a jacket member. The core member has two opposite ends. The core restrainer member sections are configured to be arranged around the core member. The jacket member comprises fiber reinforced polymers configured to be wrapped around the core restrainer member sections and core member to couple the core restrainer member sections to the core member such that the core restrainer member sections and jacket member cooperate to provide greater resistance to buckling of the core member when the brace is subjected to compression. In some implementations, the brace has a weight less than about 50% of a weight of a conventional buckling restrained brace of similar length and having a steel core and mortar-filled tubular core restrainer member of comparable cross-sectional areas, respectively.

IPC 8 full level
E04B 1/58 (2006.01); **E04B 1/24** (2006.01); **E04B 1/98** (2006.01); **E04C 3/32** (2006.01)

CPC (source: EP US)
E04C 3/00 (2013.01 - US); **E04C 3/29** (2013.01 - EP); **E04C 3/32** (2013.01 - US); **E04G 23/0218** (2013.01 - EP US); **E04H 9/0237** (2020.05 - EP); **G01N 3/00** (2013.01 - EP US); **G01N 3/32** (2013.01 - EP US); **E04C 2003/026** (2013.01 - EP); **E04H 9/028** (2013.01 - US); **G01N 2203/0075** (2013.01 - EP US); **G01N 2203/0268** (2013.01 - EP US); **G01N 2203/0298** (2013.01 - EP US)

Citation (search report)
• [X1] US 2004000104 A1 20040101 - FANUCCI JEROME P [US], et al
• [X1] US 2010218708 A1 20100902 - CARR HEATH [US], et al
• [X1] US 6123485 A 20000926 - MIRMIRAN AMIR [US], et al
• See references of WO 2013103878A1

Designated contracting state (EPC)
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