

Title (en)
REINFORCEMENT FOR A BREAKER STRIP FOR A THERMAL BRIDGE FOR BUILDING CONSTRUCTION, AND BREAKER STRIP FOR A THERMAL BRIDGE COMPRISING SAME

Title (de)
VERSTÄRKUNG FÜR EINEN GÜRTELSTREIFEN FÜR EINE WÄRMEBRÜCKE FÜR GEBÄUDEKONSTRUKTION UND GÜRTELSTREIFEN FÜR EINE BAUKONSTRUKTION DAMIT

Title (fr)
ARMATURE DE RUPTEUR DE PONT THERMIQUE POUR LA CONSTRUCTION DE BÂTIMENTS, ET RUPTEUR DE PONT THERMIQUE LA COMPORTANT

Publication
EP 3445885 B1 20221019 (FR)

Application
EP 17717456 A 20170419

Priority

- FR 1653480 A 20160420
- EP 2017059305 W 20170419

Abstract (en)
 [origin: WO2017182531A1] A reinforcement (7) for a breaker strip for a thermal bridge for building construction, characterised in that it is produced from austenitic or austenoferritic stainless steel, the composition of which, in % by weight, consists of: traces $\leq C \leq 0.08\%$; $1.5\% \leq Si \leq 4.0\%$; $4.0\% \leq Mn \leq 10.0\%$; traces $\leq Ni \leq 7.0\%$; $16.0\% \leq Cr \leq 23.0\%$; traces $\leq Mo \leq 2.0\%$; traces $\leq W \leq 1.0\%$; traces $\leq Mo + W/2 \leq 2.0\%$; traces $\leq Co \leq 2.0\%$; traces $\leq Cu \leq 3.0\%$; $0.10\% \leq N \leq 0.25\%$; the remainder being iron, alloying elements other than those previously mentioned, and impurities resulting from production, the total of said other alloying elements and impurities not exceeding 1.0%, and none of said other alloying elements being present individually in an amount greater than 0.5%, and in that the thermal conductivity index IC calculated according to: $IC = 22.2 + 2.1 (1 - IF/100) - 0.89 Si - 0.77 Ni - 0.44 Mn - 0.17 Cr - 0.16 Cu$, where $IF = 6.7 Cr + 5.7 Mo + 0.7 Si - 8.6 Ni - 2.4 Mn - 0.5 Cu - 110 C - 150 N - 42.7$ is ≤ 13.5 . A breaker strip for a thermal bridge comprising said reinforcement.

IPC 8 full level
C22C 38/00 (2006.01); **C21D 6/00** (2006.01); **C21D 8/06** (2006.01); **C21D 8/08** (2006.01); **C22C 38/02** (2006.01); **C22C 38/04** (2006.01); **C22C 38/08** (2006.01); **C22C 38/12** (2006.01); **C22C 38/18** (2006.01); **C22C 38/20** (2006.01); **C22C 38/22** (2006.01); **C22C 38/30** (2006.01); **C22C 38/38** (2006.01); **C22C 38/58** (2006.01); **E04B 1/00** (2006.01); **E04B 1/76** (2006.01); **E04B 5/32** (2006.01); **E04C 5/00** (2006.01)

CPC (source: EP)
C21D 6/004 (2013.01); **C21D 8/065** (2013.01); **C21D 8/08** (2013.01); **C22C 38/00** (2013.01); **C22C 38/001** (2013.01); **C22C 38/002** (2013.01); **C22C 38/02** (2013.01); **C22C 38/04** (2013.01); **C22C 38/08** (2013.01); **C22C 38/12** (2013.01); **C22C 38/18** (2013.01); **C22C 38/20** (2013.01); **C22C 38/22** (2013.01); **C22C 38/30** (2013.01); **C22C 38/38** (2013.01); **C22C 38/58** (2013.01); **C21D 2211/001** (2013.01); **C21D 2211/005** (2013.01); **E04B 1/0038** (2013.01); **E04B 2001/7679** (2013.01); **E04B 2005/324** (2013.01)

Citation (examination)

- WO 2015074802 A1 20150528 - EXXONMOBIL CHEM PATENTS INC [US], et al
- WO 0227056 A1 20020404 - AVESTAPOLARIT AKTIEBOLAG PUBL [SE], et al
- WO 2014055010 A1 20140410 - SANDVIK INTELLECTUAL PROPERTY [SE]
- JERALEE ANDERSON ET AL: "A Supplement to Modern Steel Construction, March 2012 Thermal Bridging Solutions: Minimizing Structural Steel's Impact on Building Envelope Energy Transfer SEI / AISC Thermal Steel Bridging Task Committee Members", 1 January 2012 (2012-01-01), XP055319939, Retrieved from the Internet <URL:http://msc.aisc.org/globalassets/modern-steel/archives/2012/03/2012v03_thermal_bridging.pdf> [retrieved on 20161116]

Cited by
FR3124804A1; CN111101050A

Designated contracting state (EPC)
AL 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 RS SE SI SK SM TR

DOCDB simple family (publication)
WO 2017182531 A1 20171026; EP 3445885 A1 20190227; EP 3445885 B1 20221019; ES 2933041 T3 20230131; FI 3445885 T3 20230113; PL 3445885 T3 20230130; PT 3445885 T 20221213

DOCDB simple family (application)
EP 2017059305 W 20170419; EP 17717456 A 20170419; ES 17717456 T 20170419; FI 17717456 T 20170419; PL 17717456 T 20170419; PT 17717456 T 20170419