

Title (en)
BEAM END WELD PREPARATION

Title (de)
SCHWEISSVORBEREITUNG FÜR EIN TRÄGERENDE

Title (fr)
PREPARATION DE SOUDURES AUX EXTREMITES DE POUTRES

Publication
EP 1740781 A4 20110406 (EN)

Application
EP 04750844 A 20040427

Priority
US 2004013139 W 20040427

Abstract (en)
[origin: WO2005108692A2] Preparation of a weld between a structural I-beam end and a beam-to-column attaching end component wherein no beam flange material is removed to participate in the creation of a weld trough. Instead, the space for a weld trough is created in the end component, and this trough is prepared with enough all-over length to establish run-on and run-off regions for molten weld material, which regions extend laterally outwardly from the opposite transverse ends of a flange. Full-section welds between a beam's flanges and the attaching end component are achieved without the need to use any run-on and run-off tabs, and also without the need to employ any traditionally-used backing bars.

IPC 8 full level
E04B 1/00 (2006.01); **E04B 1/24** (2006.01)

CPC (source: EP)
E04B 1/2403 (2013.01); **E04B 2001/2415** (2013.01); **E04B 2001/2442** (2013.01); **E04B 2001/2454** (2013.01)

Citation (search report)

- No further relevant documents disclosed
- See references of WO 2005108692A2

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 2005108692 A2 20051117; WO 2005108692 A3 20070503; AU 2004319371 A1 20051117; AU 2004319371 B2 20100107; BR PI0418781 A 20071009; BR PI0418781 B1 20151208; CA 2564195 A1 20051117; CA 2564195 C 20110104; CA 2669774 A1 20051117; CA 2669774 C 20121113; CN 101018918 A 20070815; CN 101018918 B 20100526; EP 1740781 A2 20070110; EP 1740781 A4 20110406; EP 1740781 B1 20150225; EP 2767642 A1 20140820; EP 2767642 B1 20161207; ES 2531593 T3 20150317; ES 2618053 T3 20170620; HK 1102268 A1 20071109; HK 1201306 A1 20150828; JP 2007534869 A 20071129; JP 4427080 B2 20100303; MX PA06012393 A 20070326

DOCDB simple family (application)
US 2004013139 W 20040427; AU 2004319371 A 20040427; BR PI0418781 A 20040427; CA 2564195 A 20040427; CA 2669774 A 20040427; CN 200480042862 A 20040427; EP 04750844 A 20040427; EP 13199476 A 20040427; ES 04750844 T 20040427; ES 13199476 T 20040427; HK 07110330 A 20070922; HK 15101832 A 20150223; JP 2007510674 A 20040427; MX PA06012393 A 20040427