

Title (en)

A GRADIENT WELD STUD AND METHOD OF PREPARATION

Title (de)

GRADIENTENSCHWEISSBOLZEN UND VERFAHREN ZUR HERSTELLUNG

Title (fr)

GOUJON DE SOUDAGE GRADUEL ET PROCÉDÉ DE PRÉPARATION

Publication

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Application

**EP 12849649 A 20121114**

Priority

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- SE 2012051250 W 20121114

Abstract (en)

[origin: WO2013074028A1] A weld stud adapted to be welded against a substrate. The weld stud (1;10;21;31;41) comprising: a first (I), second (II) and third (III) portion. The first portion comprises a first material M1, and the second portion comprises a second material M2, weldable to the substrate (2). The third portion comprises at least one of: a material being weldable to the substrate, and a flux material adapted to facilitate the welding of the second material M2 to the substrate, wherein the weld stud comprises a length axis (LA) running through said first, second and third portion, and wherein the third portion comprises a cross section (B-B) perpendicular to the length axis having a smaller area (a2) than the average cross-section area (a1) of the first and second portions perpendicular to the length axis. The first material M1 and second materials M2 are joined with a gradual transition (5), the first material M1 is not weldable to the substrate, and the second material M2 is weldable to the substrate, and the first and second portions comprises a sintered gradual transition region comprising a mix of the first M1 and the second M2 materials.

IPC 8 full level

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