

Title (en)
THERMAL TREATED REINFORCING BAR SPLICE AND METHOD

Title (de)
WÄRMEBEHANDELTEN BEWEHRUNGSSTABSPLEISS UND VERFAHREN DAFÜR

Title (fr)
JOINT DE BARRE DE RENFORCEMENT TRAITÉ THERMIQUEMENT ET PROCÉDÉ

Publication
EP 2869949 A4 20160330 (EN)

Application
EP 13813064 A 20130703

Priority

- US 201261667465 P 20120703
- US 201313933893 A 20130702
- US 2013049209 W 20130703

Abstract (en)
[origin: US2014010590A1] A reinforcing bar has a controlled heating on its threaded end (or other engagement portion for engaging a coupler), which extends beyond the threads, and provides improved mechanical properties at the end. The heating may be a controlled heating that case hardens the threaded end, including heating of an unthreaded portion beyond the threaded portion. The heating may be done in multiple steps, for example with a heating/hardening, follow by cooling, a reheating for tempering, and a recooling. The bar end may be threaded into a coupler or splice, with the heated end extending axially beyond (outside of) the coupler. Regions of the reinforcing bar beyond the heated end may be untreated, and therefore weaker than the thermally-treated bar end. The resulting coupling or splice may therefore be able to achieve bar break (failure at a location in the bulk of the bar, away from the coupler).

IPC 8 full level
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Citation (search report)

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- [Y] US 2005050843 A1 20050310 - COLARUSSO LOUIS [US], et al
- [X] AU 2006212709 B2 20080313 - SUGAR STEEL ENG PTY LTD [AU]
- [Y] US 4773947 A 19880927 - SHIBATA KIMIHIRO [JP], et al
- See references of WO 2014008335A1

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DOCDB simple family (application)
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