

Title (en)
FIBER REINFORCED REBAR

Title (de)
FASERVERSTÄRKTER BEWEHRUNGSSTAB

Title (fr)
BARRE D'ARMATURE RENFORCÉE DE FIBRES

Publication
EP 2137362 A4 20111019 (EN)

Application
EP 07855541 A 20071214

Priority
• CA 2007002259 W 20071214
• CA 2586394 A 20070423

Abstract (en)
[origin: WO2008128314A1] A composite reinforcing bar is formed by providing a reinforcing material supply of fiber strands rovings; a resin supply bath, and a puller for pulling the resin-impregnated reinforcing material through the resin bath. The reinforcing fibers include a series of inner rovings longitudinal to the bar with a first and a second helical wrappings of at least one roving wrapped around the inner rovings in opposed directions of wrapping. The resin is permeated through both the inner rovings and through the wrapped rovings to the outer surface where the inner rovings having parts thereof between the first and second wrapped rovings exposed and bulged outwardly by tension applied by the wrappings during curing with the bulged parts defining components of the outer surface portion of the bar which are thus rough and exposed for engaging a material to be reinforced so as to transfer longitudinal loads between the material to be reinforced and the inner rovings.

IPC 8 full level
E04C 5/07 (2006.01); **E04C 5/00** (2006.01)

CPC (source: EP)
E04C 5/07 (2013.01)

Citation (search report)
• [Y] US 4620401 A 19861104 - L ESPERANCE CHANTAL [CA], et al
• [Y] US 3332244 A 19670725 - CHALMERS MCLEAN DANIEL
• [Y] WO 9831891 A1 19980723 - CAMPLAS TECHNOLOGY [GB], et al
• [Y] CA 2396808 A1 20010719 - DOW GLOBAL TECHNOLOGIES INC [US]
• See references of WO 2008128314A1

Designated contracting state (EPC)
AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IS IT LI LT LU LV MC MT NL PL PT RO SE SI SK TR

DOCDB simple family (publication)
WO 2008128314 A1 20081030; CA 2586394 A1 20081023; CA 2586394 C 20100216; CN 101680226 A 20100324; EP 2137362 A1 20091230; EP 2137362 A4 20111019; JP 2010525197 A 20100722

DOCDB simple family (application)
CA 2007002259 W 20071214; CA 2586394 A 20070423; CN 200780052722 A 20071214; EP 07855541 A 20071214; JP 2010504394 A 20071214