

Title (en)

MULTIPART DOWEL FOR A REMOVABLE ANCHOR

Title (de)

MEHRTEILIGER DÜBEL FÜR EINEN LÖSBAREN ANKER

Title (fr)

CHEVILLE EN PLUSIEURS PARTIES POUR ELEMENT D'ANCRAGE AMOVIBLE

Publication

**EP 0966615 A1 19991229 (DE)**

Application

**EP 99906040 A 19990112**

Priority

- DE 9900035 W 19990112
- DE 19800831 A 19980113
- DE 19800832 A 19980113

Abstract (en)

[origin: US6302627B1] A multi-component dowel for a removable anchor comprises an outer dowel sleeve and an expander with a collar gripping over an end of the dowel sleeve. The expander is movable within the dowel sleeve. There is at least one dowel sleeve ring bead arranged on an inner side of the dowel sleeve in an axial direction and tapering with respect to a symmetry axis in the direction of a plug-in opening. There is at least one expander ring bead formed on an outer wall of the expander. The expander ring bead has a pitch opposing the pitch of the dowel sleeve ring bead. There is at least one clamping element located in a free space between the dowel sleeve ring based and the expander ring bead.

IPC 1-7

**F16B 13/06**

IPC 8 full level

**E02D 5/80** (2006.01); **E04B 1/48** (2006.01); **F16B 13/06** (2006.01); **F16B 13/08** (2006.01)

CPC (source: EP KR US)

**F16B 13/06** (2013.01 - KR); **F16B 13/068** (2013.01 - EP US); **F16B 13/0891** (2013.01 - EP US)

Citation (search report)

See references of WO 9936703A1

Designated contracting state (EPC)

AT BE CH DK ES FR GB IT LI LU NL SE

DOCDB simple family (publication)

**US 6302627 B1 20011016**; AU 2609299 A 19990802; BR 9904804 A 20000523; CA 2304636 A1 19990722; CN 1256745 A 20000614; EP 0966615 A1 19991229; IL 131859 A0 20010319; JP 2001525916 A 20011211; KR 20000076243 A 20001226; RU 99121843 A 20010810; WO 9936703 A1 19990722

DOCDB simple family (application)

**US 38107699 A 19991021**; AU 2609299 A 19990112; BR 9904804 A 19990112; CA 2304636 A 19990112; CN 99800227 A 19990112; DE 9900035 W 19990112; EP 99906040 A 19990112; IL 13185999 A 19990112; JP 53663599 A 19990112; KR 19997008338 A 19990913; RU 99121843 A 19990112