

Title (en)  
VIBRATORY INSTRUMENT WITH IMPROVED TOOL-CHANGING MEANS

Title (de)  
VIBRATIONSinSTRUMENT MIT VERBESSERTEN WERKZEUGWECHSELMITTELN

Title (fr)  
INSTRUMENT VIBRATOIRE A MOYENS PERFECTIONNES DE CHANGEMENT D'OUTIL

Publication  
**EP 3171812 A1 20170531 (FR)**

Application  
**EP 15751053 A 20150721**

Priority  
• FR 1457091 A 20140723  
• FR 2015052008 W 20150721

Abstract (en)  
[origin: WO2016012714A1] The invention relates to an instrument (12) which comprises: a tool (24); a tool-holder (26); complementary means (30) for vibrational coupling of the tool (24) to the tool-holder (26) which can be activated by relative movement of the tool (24) and the tool-holder (26) along a vibrational coupling/uncoupling stroke; and complementary releasable means (28) for attaching the tool (24) to the tool-holder (26) allowing, when the tool (24) is attached to the tool-holder (26), the vibrational coupling/uncoupling stroke. The attachment means (28) include two attachment members, male (36) and female (38), which can be attached together by relative movement along an attachment/detachment stroke. Said attachment members (36, 38) cannot be deformed during the attachment/detachment stroke. Said stroke includes an axial component and a component in a plane substantially transverse to the axial component, referred to as the transverse component. The axial and transverse components of the attachment/detachment stroke are defined by complementary interlocking shapes (36F, 38F) provided on the two connection members (36, 38).

IPC 8 full level  
**A61C 3/03** (2006.01); **A61C 1/07** (2006.01); **A61C 17/20** (2006.01)

CPC (source: EP US)  
**A61C 1/07** (2013.01 - EP US); **A61C 1/148** (2013.01 - US); **A61C 3/03** (2013.01 - EP US); **A61C 17/20** (2013.01 - EP US)

Citation (search report)  
See references of WO 2016012714A1

Designated contracting state (EPC)  
AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)  
BA ME

DOCDB simple family (publication)  
**WO 2016012714 A1 20160128**; EP 3171812 A1 20170531; FR 3024028 A1 20160129; FR 3024028 B1 20160819; JP 2017524436 A 20170831; TW 201611787 A 20160401; US 2017151036 A1 20170601

DOCDB simple family (application)  
**FR 2015052008 W 20150721**; EP 15751053 A 20150721; FR 1457091 A 20140723; JP 2016576006 A 20150721; TW 104123696 A 20150722; US 201515327394 A 20150721