

Title (en)

FASTENER WITH LUBRICATING RING FOR INTERFERENCE FITTING, AND ASSEMBLY METHOD USING SUCH A FASTENER

Title (de)

BEFESTIGUNGSELEMENT MIT SCHMIERRING FÜR PRESSPASSUNG UND MONTAGEVERFAHREN MIT VERWENDUNG SOLCH EINES BEFESTIGUNGSELEMENTS

Title (fr)

DISPOSITIF DE FIXATION À ANNEAU LUBRIFIANT POUR AJUSTEMENT SERRÉ, ET PROCÉDÉ D'ASSEMBLAGE UTILISANT UN TEL DISPOSITIF DE FIXATION

Publication

**EP 3497341 A1 20190619 (EN)**

Application

**EP 17755132 A 20170814**

Priority

- FR 1657749 A 20160812
- EP 2017070591 W 20170814

Abstract (en)

[origin: WO2018029381A1] The invention relates to a fastener (10) for assembling at least two structural elements, comprising a drilling, the fastener comprising an enlarged head (12) and a shank (14) exhibiting, prior to fitting, an outside diameter (Di) greater than an inside diameter (Ds) of the drilling, and a blocking portion comprising a screw thread or annular grooves. The fastener further comprises a lubricating sacrificial ring (20; 30) on the exterior surface of the fastener, extending at least between a distal end of the shank and a proximal end of the blocking portion, said ring having, before the fastener is fitted into the structure, an outside diameter greater than a diameter of the drilling. The invention applies to the assembly of aircraft structures.

IPC 8 full level

**F16B 19/05** (2006.01); **F16B 33/06** (2006.01)

CPC (source: EP)

**F16B 19/05** (2013.01); **F16B 33/06** (2013.01)

Citation (search report)

See references of WO 2018029381A1

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 2018029381 A1 20180215**; BR 112019002759 A2 20190514; CA 3033100 A1 20180215; CN 109863318 A 20190607; CN 109863318 B 20210511; EP 3497341 A1 20190619; FR 3055034 A1 20180216; FR 3055034 B1 20190517; JP 2019528410 A 20191010; RU 2019106698 A 20200914

DOCDB simple family (application)

**EP 2017070591 W 20170814**; BR 112019002759 A 20170814; CA 3033100 A 20170814; CN 201780062671 A 20170814; EP 17755132 A 20170814; FR 1657749 A 20160812; JP 2019507295 A 20170814; RU 2019106698 A 20170814