

Title (en)

CYLINDER LINER AND STRUCTURAL UNIT CONSISTING OF AT LEAST ONE CYLINDER LINER AND A CRANKCASE

Title (de)

ZYLINDERLAUFBUCHSE SOWIE BAUEINHEIT AUS MINDESTENS EINER ZYLINDERLAUFBUCHSE UND EINEM KURBELGEHÄUSE

Title (fr)

CHEMISE DE CYLINDRE ET UNITÉ MODULAIRE COMPOSÉE D'AU MOINS UNE CHEMISE DE CYLINDRE ET D'UN BLOC-CYLINDRES

Publication

**EP 2715097 A1 20140409 (DE)**

Application

**EP 12728953 A 20120519**

Priority

- DE 102011102203 A 20110521
- DE 2012000527 W 20120519

Abstract (en)

[origin: WO2012159606A1] The invention relates to a cylinder liner (30, 130) for a cylinder crankcase (11, 12; 111, 112) of an internal combustion engine, characterized in that at least a portion of the outer peripheral surface (34, 134) of the cylinder liner (30, 130) is surrounded by a sleeve (35, 235) that is produced of a metal material. The present invention further relates to a structural unit (10, 110) that consists of at least one such cylinder liner (30, 130) and a cylinder crankcase (11, 12; 111, 112).

IPC 8 full level

**F02F 1/12** (2006.01); **F02F 1/00** (2006.01)

CPC (source: EP KR US)

**F02F 1/00** (2013.01 - KR); **F02F 1/004** (2013.01 - EP US); **F02F 1/12** (2013.01 - EP KR US)

Citation (search report)

See references of WO 2012159606A1

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

DOCDB simple family (publication)

**DE 102011102203 A1 20121122**; BR 112013029890 A2 20161220; CN 103608574 A 20140226; EP 2715097 A1 20140409; JP 2014516131 A 20140707; KR 20140034212 A 20140319; US 2014102401 A1 20140417; WO 2012159606 A1 20121129

DOCDB simple family (application)

**DE 102011102203 A 20110521**; BR 112013029890 A 20120519; CN 201280030589 A 20120519; DE 2012000527 W 20120519; EP 12728953 A 20120519; JP 2014511736 A 20120519; KR 20137032629 A 20120519; US 201214118903 A 20120519