

Title (en)

BOTTOM COVERING OF A COOLING CHAMBER FOR PISTONS OF INTERNAL COMBUSTION ENGINES

Title (de)

UNTERE ABDECKUNG EINES KÜHLRAUMES FÜR KOLBEN VON VERBRENNUNGSMOTOREN

Title (fr)

RECOUVREMENT INFERIEUR DE LA CHAMBRE DE REFROIDISSEMENT POUR PISTONS DE MOTEURS A COMBUSTION INTERNE

Publication

**EP 1238191 B1 20050720 (DE)**

Application

**EP 00988687 A 20001205**

Priority

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- DE 19960913 A 19991217

Abstract (en)

[origin: WO0144645A1] The aim of the invention is to provide an easy fastening of a tubular supply or a vertical pipe in a bottom covering of a cooling chamber for pistons of internal combustion engines, e.g. in a circular covering of a cooling channel of an articulated-skirt piston. To this end, the vertical tube or the tubular supply is clipped into the bottom covering or is fastened thereto by a detent connection.

IPC 1-7

**F02F 3/22**; **F16B 2/24**

IPC 8 full level

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CPC (source: EP US)

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Cited by

JP2017535715A; CN107110064A; WO2016066600A1; DE102014015946A1; US10240557B2; DE102014015947A1; US10041441B2; DE102012213558A1; WO2014020066A1; US9689343B2

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