

Title (en)  
WATER EXPLOSION ENGINE, METHOD, AND DEVICE

Title (de)  
WASSER-EXPLOSIONS-MOTOR, VERFAHREN UND VORRICHTUNG

Title (fr)  
MOTEUR A EXPLOSION A EAU, PROCEDE ET DISPOSITIF

Publication  
**EP 1954916 B1 20110119 (DE)**

Application  
**EP 06818109 A 20061127**

Priority  
• DE 2006002090 W 20061127  
• DE 102005063294 A 20051130

Abstract (en)  
[origin: WO2007062626A2] The invention relates to a method for producing superheated steam in an engine in which highly compressed water is injected into a very hot medium located in the engine, resulting in explosion-like evaporation. Said process is to take place in a specially developed rotational-translational engine in order to utilize a maximum of the thrust of the steam. The engine is to comprise at least two cylinders which have a circular cross-sectional shape (10) and inside which the drive shaft (11) is disposed eccentrically. A rotor (12) that is connected to an element (16) which is inserted through the drive shaft (11) is arranged on the drive shaft. Said element (16) can be moved back and forth in the drive shaft (11) while the ends thereof are fixedly anchored to the rotor (12). The two ends of the rotor (10) are provided with a specially designed triple-roll seal (13) that can lengthen and shorten the rotor (10), which is a requirement when the drive shaft (11) is placed non-axially in a circular cylinder (10). The rotor (10) has an elongate, elliptical shape and separates the cylinder chamber (10) into two expanding and contracting working chambers A and B.

IPC 8 full level  
**F01C 1/22** (2006.01)

CPC (source: EP KR US)  
**F01C 1/22** (2013.01 - EP KR US); **F01C 11/002** (2013.01 - EP US); **F01K 21/00** (2013.01 - KR); **F03C 2/30** (2013.01 - KR)

Cited by  
DE102012011167A1

Designated contracting state (EPC)  
AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IS IT LI LT LU LV MC NL PL PT RO SE SI SK TR

DOCDB simple family (publication)  
**WO 2007062626 A2 20070607; WO 2007062626 A3 20071122; WO 2007062626 B1 20080221**; AT E496198 T1 20110215; CN 101321928 A 20081210; CN 101321928 B 20121128; DE 112006003724 A5 20081030; DE 502006008779 D1 20110303; EP 1954916 A2 20080813; EP 1954916 B1 20110119; JP 2009517586 A 20090430; JP 5043031 B2 20121010; KR 20080075213 A 20080814; RU 2008126243 A 20100110; RU 2425986 C2 20110810; US 2009173069 A1 20090709; US 8375712 B2 20130219

DOCDB simple family (application)  
**DE 2006002090 W 20061127**; AT 06818109 T 20061127; CN 200680045098 A 20061127; DE 112006003724 T 20061127; DE 502006008779 T 20061127; EP 06818109 A 20061127; JP 2008542592 A 20061127; KR 20087016019 A 20080630; RU 2008126243 A 20061127; US 8571806 A 20061127