

Title (en)  
Photocatalytic ignition system

Title (de)  
Photokatalytisches Zündsystem

Title (fr)  
Système d'ignition photocatalytique

Publication  
**EP 2020504 A2 20090204 (EN)**

Application  
**EP 08161458 A 20080730**

Priority  
• JP 2007201448 A 20070802  
• JP 2008109006 A 20080418

Abstract (en)  
A photocatalytic ignition system is provided that basically comprises an ignition chamber, a photocatalyst and a light source. The ignition chamber is configured to receive an air fuel mixture. The photocatalyst is arranged in the ignition chamber to contact an air fuel mixture. The light source is arranged to shine light on the photocatalyst. The photocatalyst includes a photocatalytic material having an oxygen absorbing and a desorbing function. The photocatalytic ignition system is capable of igniting a lean air fuel mixture with a greatly reduced amount of light energy.

IPC 8 full level  
**F02P 23/02** (2006.01); **F02P 23/04** (2006.01)

CPC (source: EP US)  
**F02P 23/02** (2013.01 - EP US); **F02P 23/04** (2013.01 - EP US)

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

Designated extension state (EPC)  
AL BA MK RS

DOCDB simple family (publication)  
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