

Title (en)  
LASER-INDUCED SPARK IGNITION FOR AN INTERNAL COMBUSTION ENGINE

Title (de)  
LASERINDUZIERTE FREMDZÜNDUNG FÜR EINE BRENNKRAFTMASCHINE

Title (fr)  
ALLUMAGE INDUIT PAR LASER POUR UN MOTEUR A COMBUSTION INTERNE

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Application  
**EP 11712802 A 20110325**

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Abstract (en)  
[origin: WO2011147606A1] The invention relates to laser spark plugs for an internal combustion engine (10) comprising at least one means (26) for guiding, forming and/or producing laser radiation (24), and also comprising a combustion chamber window (58) and a housing (38), characterised in that the housing (38) comprises, on the side of the combustion chamber window (58) opposing the means (26), especially on an end (381) of the housing on the side of the combustion chamber, a screen (74) for the passage of the laser radiation (24) guided, formed and/or produced by the means into a combustion chamber (14). The screen (74) has an end facing the combustion chamber (14) and an end opposing the combustion chamber (14), the inner contour (71) of the screen (74) having an extremal cross-section (QS) in an area that is at a distance both from the end of the screen (74) facing the combustion chamber (14) and the end of the screen (74) opposing the combustion chamber (14).

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