

Title (en)
SPARK PLUG HAVING AN END PART

Title (de)
ZÜNDKERZE MIT ENDETEIL

Title (fr)
BOUGIE D'ALLUMAGE AVEC EMBOUT

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Application
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Abstract (en)
[origin: WO2012113002A1] The present invention relates to a spark plug of an internal combustion engine, preferably for spark-ignition gas engines, comprising a spark plug housing (2) that surrounds an insulating body (1) and comprising a center electrode (3) and at least one ground electrode (4) borne by a ground electrode carrier (6), wherein the ignition surfaces (12) of the center electrode (3) and the ignition surface (26) of the ground electrode (4) are surrounded by a wall (8), which forms a chamber (5) open on the combustion chamber side or a pre-chamber (51) having passage openings (10). According to the invention, an end part (60) is attached to the end area of the spark plug housing (2) on the combustion chamber side, and the ground electrode carrier (6) and the wall (8) are borne by said end part (60).

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Opponent :
• WO 2012113002 A1 20120830 - FRANCESCONI CHRISTIAN [AT]
• JP S5669416 A 19810610 - HISADA YARIICHI
• WO 2012091739 A2 20120705 - PROMETHEUS APPLIED TECHNOLOGIES LLC [US], et al
• DE 102008000163 A1 20080814 - DENSO CORP [JP]
• JP 2006144648 A 20060608 - NISSAN MOTOR
• DE 102010004851 A1 20110622 - BORGWARNER BERU SYSTEMS GMBH [DE], et al
• US 1542631 A 19250616 - LEWIS MORRISON, et al
• US 2702537 A 19550222 - WRIGHT GILBERT F, et al
• EP 1265329 B1 20040804 - GE JENBACHER GMBH & CO OHG [AT]
• FR 1001923 A 19520229
• AT 2302011 A 20110221

Cited by
US11183818B2; WO2022090031A1

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