

Title (en)
RADIAL FLAME PLATE AND GAS BURNER USING SAME

Title (de)
RADIALFLAMMENPLATTE UND GASBRENNER DAMIT

Title (fr)
PLAQUE À FLAMME RADIALE ET BRÛLEUR À GAZ L'UTILISANT

Publication
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Application
EP 17815611 A 20170525

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Abstract (en)
[origin: EP3473928A1] The present invention relates to a gas burner and, more particularly, to a gas burner which allows fuel gas, such as LPG or city gas, supplied from the outside and air to be mixed easily so that the fuel is completely burned and ejection pressure is increased at the same time, resulting in high efficiency of flame. To achieve the above object, the present invention is characterized by a flame plate having an inclined part, which is tapered inwardly in a manner such that a height thereof increases outwardly from a low central portion, and a plurality of ejection holes radially formed on the inclined part, wherein the plurality of ejection holes is formed at a predetermined angle at a center to a periphery.

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Citation (search report)
• [XA] CN 104180371 A 20141203 - CHENGZHOU ROVLL SANITARY WARE CO LTD
• [XA] EP 2390569 A2 20111130 - A R C S R L [IT]
• [XA] JP 2007113879 A 20070510 - MATSUSHITA ELECTRIC IND CO LTD
• [A] CN 2080141 U 19910703 - YUZHOU METAL PRODUCTS FACTORY [CN]
• See references of WO 2017222198A1

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