

Title (en)
CYLINDRICAL GAS PREMIX BURNER

Title (de)
ZYLINDERFÖRMIGER GASVORMISCHUNGSBRENNER

Title (fr)
BRÛLEUR CYLINDRIQUE À PRÉMÉLANGE GAZEUX

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Application
EP 13700009 A 20130103

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Abstract (en)
[origin: WO2013107661A2] A cylindrical gas premix burner (100) is described that is comprising - a cylindrical burner deck (110), wherein the cylindrical burner deck (110) is comprising a metal plate, and wherein the cylindrical burner deck (110) has a perforated zone, the perforated zone being the part of the cylindrical burner deck (110) that is foreseen with perforations in the metal plate, - an end cap (115), - an inlet (112) for gas premix at the opposite side of the end cap (115). The perforated zone is comprising - seen along the axis of the cylindrical gas premix burners - at least three sections, wherein a first section (140) at the inlet, a third section (160) located towards the end cap, and a second section (150) located between the first section (140) and the third section (160). The porosity of the second section (150) of the cylindrical burner deck (110) is at least 50% higher than the porosity of the cylindrical burner deck (110) in the first section (140) and then the porosity in the third section (160). The cylindrical gas premix burner (100) can be used in combination with an ionization pen (190) for efficient control of the air to gas ratio over a broad load range of the cylindrical gas premix burner (100). The cylindrical gas premix burner (100) can e.g. be used in boilers or in instantaneous water heaters.

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Cited by
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