

Title (en)

FLAME SPREADER AS WELL AS BURNER AND WATER HEATER USING SAME

Title (de)

FLAMMENVERTEILER SOWIE BRENNER UND WASSERERHITZER MIT VERWENDUNG DAVON

Title (fr)

DIFFUSEUR DE FLAMME AINSI QUE BRÛLEUR ET CHAUFFE-EAU UTILISANT CELUI-CI

Publication

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Application

EP 18900678 A 20180613

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- CN 2018091100 W 20180613

Abstract (en)

[origin: EP3584499A1] The present disclosure relates to a distributor and a burner and a water heater having the same. The distributor includes at least three injection pipes, a gas mixing cavity, a splitter and a first through hole. Each injection pipe is provided with a flow guiding inclined surface, and the flow guiding inclined surface is formed by inclining an end surface of a gas outlet section of the injection pipe to two sides. The gas mixing cavity is communicated with each injection pipe. The splitter is disposed at the gas outlet section of the injection pipe and recessed to an interior of the gas mixing cavity to split gas to two sides. The first through hole is disposed beside the injection pipe for the cooling water pipe to pass through and is in close contact with the cooling water pipe. The present disclosure can increase the ejector coefficient, make the gas combustion more complete, and reduce generation of nitrogen oxides.

IPC 8 full level

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CPC (source: EP)

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Citation (search report)

- [I] EP 0769656 A1 19970423 - LEBLANC SA E L M [FR]
- [I] DE 19542649 A1 19970522 - BOSCH GMBH ROBERT [DE]
- [A] DE 9203211 U1 19920423
- See references of WO 2019140861A1

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