

Title (en)

INJECTION HEAD FOR A GAS TURBINE COMBUSTOR

Title (de)

EINSPRITZKOPF FÜR EINE GASTURBINENBRENNKAMMER

Title (fr)

TÊTE D'INJECTION POUR UNE CHAMBRE DE COMBUSTION DE TURBINE À GAZ

Publication

EP 3674608 B1 20221207 (EN)

Application

EP 19219662 A 20191224

Priority

RU 2018146134 A 20181225

Abstract (en)

[origin: EP3674608A1] An injection unit for a gas turbine combustor includes an injection head (15) extending about a central axis (A) and an injection manifold (14) coupled to the injection head (15). The injection head (15) includes: a fuel plenum assembly (22) extending about the central axis (A) and including a primary fuel plenum (24); a plurality of injector fingers (19, 20) extending radially outward from the fuel plenum assembly (22) and each provided with at least a respective fuel nozzle (30); a fuel inlet (27, 28), fluidly coupled to the fuel plenum assembly (22); and a cooling air housing, at least partly enclosing the fuel plenum assembly (22) and defining a cooling air plenum (21). Each fuel nozzle (30) has a respective primary fuel line (31) fluidly coupled to the primary fuel plenum (24; 224) and a respective shielding air line (33) fluidly coupled to the cooling air plenum (21).

IPC 8 full level

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CPC (source: CN EP RU)

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