

Title (en)

DEVICE FOR MIXING TWO FLUIDS AND USE THEREOF FOR COOLING A VERY HIGH TEMPERATURE FLUID

Title (de)

VORRICHTUNG ZUM MISCHEN VON ZWEI FLUIDEN UND VERWENDUNG DAVON ZUM KÜHLEN EINES FLUIDS AUF SEHR HOHER TEMPERATUR

Title (fr)

DISPOSITIF DE MELANGE DE DEUX FLUIDES ET UTILISATION POUR LE REFROIDISSEMENT D'UN FLUIDE A TRES HAUTE TEMPERATURE

Publication

EP 1648598 B1 20070124 (FR)

Application

EP 04767305 A 20040609

Priority

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- FR 0309341 A 20030729

Abstract (en)

[origin: FR2858248A1] The mixer (1) has a tubular casing (2) with two connection units (5, 6) for supercritical water supply and evacuation of a mixture of the supercritical and cooling waters, respectively. Two coaxial guiding ducts (18a, 18b) respectively have isolating spaces (19a, 19b) on their walls. A third connection unit (7) supplying the cooling water, opens into a cylindrical chamber (3) in communication with the spaces. The connection unit (5) is connected to an output duct of an effluent oxidation reactor. The connection unit (7) is connected to a reservoir and a cooling water pumping assembly. An independent claim is also included for utilization of a mixer for mixing supercritical water utilized for the treatment of effluents by supercritical water oxidation, with cooling water at a temperature lower than the temperature of the supercritical water.

IPC 8 full level

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