

Title (en)
CERAMIC-METAL OR METAL ALLOY JUNCTION ASSEMBLY

Title (de)
KERAMIK-METALL- ODER METALLLEGIERUNGSVERBINDUNGSANORDNUNG

Title (fr)
ENSEMBLE DE JONCTION CERAMIQUE-METAL OU ALLIAGE METALLIQUE

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Application
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Abstract (en)
[origin: WO2006064160A1] The invention concerns a junction assembly (5) comprising: a ceramic tube (3) with axis (X'X), defining an inner zone (ZC) and an outer zone (ZM); a metal socket (2) with cylindrical junction zone (2b) of axis (X'X) enclosing said tube (3) through a gap (4); the sealing between said tube (3) and the socket (2) is provided by a junction element (1), made of a gas-tight material, and having a thermal expansion coefficient higher than 9. 10⁻⁶/ °C; said ceramic having a thermal expansion coefficient higher than that of the metal; said zone (2b) having, perpendicular to (X'X) a small dimension (1). The invention also concerns a reactor (6) comprising such an assembly (5), in particular for gas production and/or for gas separation.

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