

Title (en)

COAXIAL MODULE FOR FUEL CELL OR ELECTROLYSER WITH BALL INTERCONNECTORS

Title (de)

KOAXIALES MODUL FÜR EINE BRENNSTOFFZELLE ODER EINEN ELEKTROLYSEUR MIT KUGELVERBINDERN

Title (fr)

MODULE COAXIAL DE PILE A COMBUSTIBLE OU ELECTROLYSEUR A INTERCONNECTEURS A BILLES

Publication

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Application

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- FR 0757328 A 20070903

Abstract (en)

[origin: WO2009030648A1] The module according to the invention has an increased service life because it does not contain any elastic part. The functional stack has a tubular and coaxial configuration. There are provided, alternatively interleaved, electrochemical elementary cells (15) and interconnectors made, on the one hand, of a gas separation tube (22) and, on the other hand, a plurality of balls (20) provided in the spaces between said gas separation tubes (22) and elementary cells (15). The balls (20) permit a homogenous distribution of the gases on the functional surfaces of the cells and multiply the electric contacts between the separation tubes (22) and the elementary cells (15). The invention can be used for fuel cells of the SOFC type and for electrolyzers of the SOEC type.

IPC 8 full level

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Citation (search report)

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