

Title (en)
FIBER-REINFORCED BODY

Title (de)
FASERARMIERTER KÖRPER

Title (fr)
CORPS ARMÉ PAR DES FIBRES

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Abstract (en)
[origin: WO2011082866A1] The invention relates to a body (1) comprising a ceramic material and which is suitable for use in a heat exchanger and for conducting fluids, characterized in that the outer side (15) of the body (3) is at least partially encompassed by at least two fiber bundles (9) in the longitudinal direction and/or circumferential direction and non-positively connected thereto, wherein the fiber bundles (9) are pre-tensioned and neighboring sections of the fiber bundles (9) are arranged at a predetermined distance. The present invention further relates to a method for producing a body (1) comprising the steps: a) providing a body (3) which comprises a ceramic material and is suitable for use in a heat exchanger and for conducting fluids; and b) encompassing at least sections of the outer side (15) of the body (3) by at least two fiber bundles (9) under a predetermined pre-tension forming a non-positive connection, wherein neighboring sections of the fiber bundle (9) are arranged at a predetermined distance. The invention further relates to the use of the body (1) according to the invention as a pipe or pipe bottom in a heat exchanger.

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