

Title (en)

MEMBRANE BUNDLE PACKAGE HAVING SPACERS

Title (de)

MEMBRANBÜNDELAUFMACHUNG MIT ABSTANDSHALTERN

Title (fr)

CONDITIONNEMENT DE FAISCEAU DE MEMBRANES PRÉSENTANT DES ÉLÉMENTS D'ÉCARTEMENT

Publication

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Application

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Abstract (en)

[origin: WO2019092105A1] The invention relates to a hollow fiber membrane bundle, having a longitudinal extent, a membrane bundle cross-section, and a first and a second bundle end, said hollow fiber membrane bundle comprising a plurality of hollow fiber membranes extending between the first and second bundle ends and, with respect to the membrane bundle cross-section, a proportion of threads, which are arranged between the hollow fiber membranes and keep the hollow fiber membranes spaced apart. The threads are arranged between the hollow fiber membranes in such a way that, at the first bundle end and/or at the second bundle end, the hollow fiber membranes protrude beyond at least some of the threads, the hollow fiber membrane bundle thus having a smaller proportion of threads in a first and/or second end region extending from the first bundle end and/or the second bundle end than in a bundle region having a maximum proportion of threads, which lies between the first and the second bundle ends, the length of the first end region and/or the length of the second end region being 1% to 45% of the bundle length. A membrane module, comprising a cylindrical housing, which has a longitudinal extent and a first and a second housing end, a housing shell extending between the first housing end and the second housing end, and a housing inner wall, such a hollow fiber membrane bundle being arranged in the housing in such a way that the hollow fiber membrane bundle is oriented in the direction of the longitudinal extent of the housing.

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