

Title (en)

HEAT EXCHANGE ELEMENT WITH MICROSTRUCTURED COATING AND PROCESS FOR PRODUCTION

Title (de)

WÄRMEAUSTAUSCHELEMENT MIT MIKROSTRUKTURIERTER BESCHICHTUNG UND HERSTELLUNGSVERFAHREN

Title (fr)

ÉLÉMENT D'ÉCHANGE DE CHALEUR DOTÉ D'UN REVÊTEMENT MICROSTRUCTURÉ ET PROCÉDÉ DE PRODUCTION

Publication

**EP 3658840 A1 20200603 (EN)**

Application

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Abstract (en)

[origin: WO2019021016A1] The invention provides a heat exchange element comprising a substrate and a coating, wherein the coating is present on at least a part of a flow path defined by the heat exchange element. The coating comprises a metal and has a structure comprising spikes having a length of up to 100 µm; the average length of the spikes varies throughout the coating. The invention also provides a method of transferring heat to or from a fluid which comprises providing the fluid to a flow path of the heat exchange element of the invention. The invention further provides a process for producing a heat exchange element of the invention, wherein the process comprises providing an electroless deposition solution to a surface of a substrate. The invention further provides a flow process for producing a heat exchange element and a heat exchange element obtained or obtainable by that process.

IPC 8 full level

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