

Title (en)
VIMEC ENERGY TRANSDUCER

Title (de)
VIMEC-ENERGIEWANDLER

Title (fr)
TRANSDUCTEUR D'ÉNERGIE VIMÉC

Publication
EP 4291769 A1 20231220 (EN)

Application
EP 22704371 A 20220208

Priority
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• EP 2022052943 W 20220208

Abstract (en)
[origin: WO2022171591A1] An energy transducer contains a bluff body (110), a flow disturbance element (120) and at least one energy conversion device (511, 521). The bluff body (110) is elongated along a first axis (A1) and is configured to be arranged in a fluid flow (F) transverse to the first axis (A1). The flow disturbance element (120) is elongated along a second axis (A2) parallel to the first axis (A1). The flow disturbance element (120) is configured to disrupt the fluid flow (F) to cause vortex shedding downstream of the bluff body (110) relative to the flow direction (DF). The flow disturbance element (120) has a tapered cross-section and is arranged with a widest cross-section end (121) upstream of a narrowest cross-section end (122) relative to the flow direction (DF). The at least one energy conversion device (511, 521) is configured to transform movements of the bluff body (110) into at least one of electrical energy and mechanical energy.

IPC 8 full level
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Citation (search report)
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KH MA MD TN

DOCDB simple family (publication)
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