

Title (en)
DEVICE FOR PUMPING TWO FLUID FLOWS

Title (de)
VORRICHTUNG ZUR FÖRDERUNG ZWEIER FLUIDSTRÖME

Title (fr)
DISPOSITIF POUR L'ENTRAÎNEMENT DE DEUX COURANTS DE FLUIDE

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Application
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Abstract (en)
[origin: WO2015007351A1] The invention relates to a device (20) for pumping a first fluid flow (24) and a second fluid flow (26), said device comprising a first fluid channel (21) for conducting the first fluid flow (24) along a first flow direction (25) and a second fluid channel (22), which is separate from the first fluid channel (21), for conducting the second fluid flow (26) along a second flow direction (27). A rotor (1) with a vaneless impeller (3), upon which each fluid flow (24, 26) partially impinges, is provided in a transverse flow arrangement relative to the two flow directions (25, 27) in order to pump the fluid flows (24, 26). The invention further relates to a ventilating system (51) for supplying and extracting air to/from an interior (52), said system comprising such a device (20). The device (20) functions simultaneously as a transverse flow friction pump and as a transverse flow regenerative heat exchanger.

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