

Title (en)
ROTOR AND PUMP COMPRISING SUCH ROTOR

Title (de)
ROTOR UND PUMPE MIT SOLCH EINEM ROTOR

Title (fr)
ROTOR ET POMPE COMPRENANT UN TEL ROTOR

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Application
EP 20746645 A 20200728

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Abstract (en)
[origin: WO2021028213A1] Rotor comprising a vane carrier (21), a transmission coupling (40), configured for transmitting a drive torque to the vane carrier (21), and at least one vane; wherein the vane carrier (21) comprises a seat (25), and wherein the transmission coupling (40) comprises an engaging end (41) configured for being inserted into the seat (25) of the vane carrier (21) and having a first face (46) oriented towards the seat (25) of the vane carrier (21), and a second face (47) oriented in a direction opposite to that of the first face (46). The rotor further comprises a first support element (170) comprising a base (171) resting on the second face (47) of said engaging end (41), two first wings (175, 176) arranged between respective first thrust surfaces (49) of the engaging end (41) and corresponding first abutment surfaces (32) of the seat (25), said first abutment surfaces (32) facing the first thrust surfaces (49), and two second wings (177, 178) arranged between respective second thrust surfaces (50) of the engaging end (41) and corresponding second abutment surfaces (33) of the seat (25), said second abutment surfaces (33) facing the second thrust surfaces (50). The base (171) of the first support element (170) comprises two radial portions (173a, 173b) in which a corresponding radial slot (179) is provided dividing said two radial portions (173a, 173b) into a first sub-branch (181), from which a respective wing of said two first wings (175, 176) extends, and a second sub-branch (182), from which a respective wing of said two second wings (177, 178) extends.

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