

Title (en)  
SEAL OF A COMPRESSOR ROTOR

Title (de)  
ABDICHTUNG EINES VERDICHTERROTORS

Title (fr)  
ÉTANCHÉIFICATION D'UN ROTOR DE COMPRESSEUR

Publication  
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Application  
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Abstract (en)  
[origin: WO2014096036A1] The invention relates to a compressor rotor (1) comprising a pinion shaft (2) which has multiple interconnected segments (3, 4, 5) that are arranged axially one behind the other and comprising a multipart seal (6) which seals the pinion shaft (2). The aim of the invention is to prevent imbalances in the compressor rotor (1) or to allow a centering of a multipart seal (6) sealing element (13) which rotates together with the compressor rotor (1) with as little play as possible. This is achieved in that the pinion shaft (2) has a rotor segment (5) which supports a rotor, a connection segment (5), and a toothed segment (3) arranged axially between the rotor segment (5) and the connection segment (4), said toothed segment (3) having a toothing (9) at each of the two ends (7, 8) of the toothed segment. The toothed segment (3) is held axially between the rotor segment and the connection segment via said toothings by means of corresponding mating toothings (10) at ends (11, 12) of the rotor segment (5) and the connection segment (4), in particular in a centered manner without any play, and a multipart seal (6) sealing element (13) which is connected to the toothed segment (3) in an at least force-fitting manner is arranged on said toothed segment (3).

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