

Title (en)  
LOAD-RELIEVING DEVICE

Title (de)  
ENTLASTUNGSEINRICHTUNG

Title (fr)  
DISPOSITIF DE DÉLESTAGE

Publication  
**EP 3924628 C0 20240124 (DE)**

Application  
**EP 20704818 A 20200207**

Priority  
• DE 102019001120 A 20190215  
• EP 2020053150 W 20200207

Abstract (en)  
[origin: WO2020165046A1] The invention relates to a load-relieving device for compensating the axial thrust of a turbomachine. The load-relieving device has an element (4), which is connected to a shaft (2) for conjoint rotation. Together with a stationary counter-element (5), at least one gap (8, 7, 8) is formed. At least in some regions between the element (4) and the counter-element (5), a carbon layer (10) is arranged.

IPC 8 full level  
**F04D 29/041** (2006.01); **F04D 29/051** (2006.01)

CPC (source: EP)  
**F04D 29/026** (2013.01); **F04D 29/0413** (2013.01); **F04D 29/0416** (2013.01); **F04D 29/0465** (2013.01); **F05D 2230/90** (2013.01); **F05D 2300/224** (2013.01); **F05D 2300/506** (2013.01); **F05D 2300/611** (2013.01)

Designated contracting state (EPC)  
AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

Participating member state (EPC – UP)  
AT BE BG DE DK EE FI FR IT LT LU LV MT NL PT SE SI

DOCDB simple family (publication)  
**WO 2020165046 A1 20200820**; CN 113396287 A 20210914; DE 102019001120 A1 20200820; EP 3924628 A1 20211222;  
EP 3924628 B1 20240124; EP 3924628 C0 20240124

DOCDB simple family (application)  
**EP 2020053150 W 20200207**; CN 202080014202 A 20200207; DE 102019001120 A 20190215; EP 20704818 A 20200207