

Title (en)  
DEVICE FOR CONNECTING A GAS-CARRYING PIPE ELEMENT AND METHOD FOR CONNECTING A GAS-CARRYING PIPE ELEMENT

Title (de)  
VORRICHTUNG ZUR VERBINDUNG EINES GASFÜHRENDEN LEITUNGSELEMENTS UND VERFAHREN ZUR VERBINDUNG EINES GASFÜHRENDEN LEITUNGSELEMENTS

Title (fr)  
DISPOSITIF DE RACCORDEMENT D'UN ÉLÉMENT DE TUYAU DE TRANSPORT DE GAZ ET PROCÉDÉ DE RACCORDEMENT D'UN ÉLÉMENT DE TUYAU DE TRANSPORT DE GAZ

Publication  
**EP 4179243 A1 20230517 (DE)**

Application  
**EP 21740494 A 20210707**

Priority  
• DE 102020208552 A 20200708  
• EP 2021068793 W 20210707

Abstract (en)  
[origin: CN113915355A] The present invention relates to a device (100) for connecting a gas-carrying pipe element (1), more particularly a hydrogen-carrying pipe element, to a counter-piece (2), more particularly a component, comprising: at least one threaded body (10), which is designed to be engaged tightly, more particularly gas tightly, with the counter-piece (2), a first seal (3), which is designed in the form of a valve body (3a), which is designed to be brought into contact, more particularly to be brought into gas-tight contact, with a valve seat (4) provided on the counter-piece (2) or is designed in the form of a gasket, and a second seal (5), which operates on a sealing action principle which exerts or develops the sealing action independently of an axial displacement, more particularly in a direction of insertion E, which is required to produce the sealing effect of the first seal (3).

IPC 8 full level  
**F16L 23/026** (2006.01); **F16L 21/08** (2006.01); **F16L 23/16** (2006.01); **F16L 23/22** (2006.01); **G01M 3/28** (2006.01)

CPC (source: CN EP KR US)  
**F16K 1/32** (2013.01 - CN); **F16K 1/36** (2013.01 - CN); **F16K 1/42** (2013.01 - CN); **F16K 27/02** (2013.01 - CN); **F16K 37/00** (2013.01 - CN); **F16L 21/08** (2013.01 - EP); **F16L 23/006** (2013.01 - US); **F16L 23/026** (2013.01 - EP KR US); **F16L 23/16** (2013.01 - KR); **F16L 23/162** (2013.01 - EP); **F16L 23/167** (2013.01 - EP KR US); **F16L 23/22** (2013.01 - EP KR US); **G01M 3/04** (2013.01 - KR); **G01M 3/183** (2013.01 - EP); **F16L 2201/30** (2013.01 - EP KR US)

Citation (search report)  
See references of WO 2022008583A1

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

Designated extension state (EPC)  
BA ME

Designated validation state (EPC)  
KH MA MD TN

DOCDB simple family (publication)  
**DE 102020208552 A1 20220113**; AU 2021303465 A1 20230223; BR 112023000316 A2 20230131; CN 113915355 A 20220111; CN 215891163 U 20220222; EP 4179243 A1 20230517; JP 2023533049 A 20230801; KR 20230035096 A 20230310; US 2023265950 A1 20230824; WO 2022008583 A1 20220113

DOCDB simple family (application)  
**DE 102020208552 A 20200708**; AU 2021303465 A 20210707; BR 112023000316 A 20210707; CN 202011497597 A 20201217; CN 202023058419 U 20201217; EP 2021068793 W 20210707; EP 21740494 A 20210707; JP 2023501294 A 20210707; KR 20237004142 A 20210707; US 202118015312 A 20210707