

Title (en)  
LEVER CONNECTION AND CORRESPONDING TURBOMACHINE

Title (de)  
HEBELANBINDUNG UND ZUGEHÖRIGE STRÖMUNGSMASCHINE

Title (fr)  
RACCORDEMENT DE LEVIER ET TURBOMACHINE ASSOCIÉE

Publication  
**EP 3495626 B1 20200805 (DE)**

Application  
**EP 18209948 A 20181204**

Priority  
DE 102017222209 A 20171207

Abstract (en)  
[origin: US2019178096A1] Disclosed is a lever linkage for the rotationally fixed connection of a guide vane to a lever of a guide vane adjusting device of a turbomachine, wherein the guide vane has a vane shaft, which extends along a vertical axis. In accordance with the invention, the lever is formed in one piece at a radially outer end of an essentially hollow cylindrical clamping sleeve, which coaxially surrounds the vane shaft in sections, and the vane shaft and the clamping sleeve are coupled by way of a longitudinal side form-fitting connection or a front-end form-fitting connection, and the vane shaft can be tensioned with the clamping sleeve along the vertical axis by means of a fastening element, in particular a threaded nut. In consequence thereof, a separation of two different force flows that act on the guide vanes is obtained, as a result of which local load peaks are reduced.

IPC 8 full level  
**F01D 17/16** (2006.01); **F04D 29/56** (2006.01)

CPC (source: EP US)  
**F01D 9/041** (2013.01 - US); **F01D 17/162** (2013.01 - EP US); **F01D 19/00** (2013.01 - US); **F04D 29/563** (2013.01 - EP US); **F05D 2220/3217** (2013.01 - US); **F05D 2220/3219** (2013.01 - US); **F05D 2220/323** (2013.01 - US); **F05D 2230/60** (2013.01 - US); **F05D 2240/12** (2013.01 - US); **F05D 2250/131** (2013.01 - EP US); **F05D 2260/36** (2013.01 - EP US); **F05D 2260/37** (2013.01 - EP US); **F05D 2260/85** (2013.01 - US)

Cited by  
US11460037B2

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

DOCDB simple family (publication)  
**EP 3495626 A1 20190612**; **EP 3495626 B1 20200805**; DE 102017222209 A1 20190613; US 10982558 B2 20210420; US 2019178096 A1 20190613

DOCDB simple family (application)  
**EP 18209948 A 20181204**; DE 102017222209 A 20171207; US 201816211483 A 20181206