

Title (en)
VARIABLE VALVE DRIVE DEVICE

Title (de)
VARIABLE VENTILTRIEBVORRICHTUNG

Title (fr)
ENSEMBLE MÉCANISME DE DISTRIBUTION VARIABLE

Publication
EP 3824165 B1 20220330 (DE)

Application
EP 19745032 A 20190716

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• AT 2019060237 W 20190716

Abstract (en)
[origin: WO2020014722A1] The invention relates to a variable valve drive device (1) for actuating at least one gas exchange valve, having a camshaft (2) rotatably mounted about an axis of rotation (2a) and having at least one cam element (3) adjustable via an adjusting device (20), wherein the cam element (23) is pivotably mounted about a pivot axis (3a) between at least a folded-in, first position (K) and a folded-out, second position (B) and wherein the adjustable cam element (3) is arranged adjacent to at least one basic cam (4a, 4b) in the direction of the axis of rotation (2a), wherein the adjusting device (20) has at least one push rod (6) arranged within the camshaft (2), wherein the push rod (6) has at least one ramp face (8) formed at least partly at an angle to the axis of rotation (2a) of the camshaft (2). The cam element (3) has a mating ramp face (13) interacting with the ramp face (8) of the push rod (6), which is formed at least partly at an angle to the axis of rotation (2a) of the camshaft (2).

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Citation (examination)
• WO 02081872 A1 20021017 - MITCHELL STEPHEN WILLIAM [GB]
• DE 69421170 T2 20000706 - VALASOPOULOS CHRISTOS [GR]
• EP 3045690 B1 20190327 - TOYOTA MOTOR CO LTD [JP]

Designated contracting state (EPC)
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WO 2020014722 A1 20200123; AT 521559 A1 20200215; AT 521559 B1 20220815; EP 3824165 A1 20210526; EP 3824165 B1 20220330

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