

Title (en)
DRIVE UNIT HAVING COOLANT GUIDANCE SYSTEM FOR SUPPLYING AND DISTRIBUTING A FLUID FLOW BETWEEN TWO GEARBOX INPUT SHAFTS

Title (de)
ANTRIEBSEINHEIT MIT KÜHLMITTELLEITSYSTEM ZUR ZUFÜHRUNG UND AUFTEILUNG EINES FLUIDSTROMS ZWISCHEN ZWEI GETRIEBEEINGANGSWELLEN

Title (fr)
UNITÉ D'ENTRAÎNEMENT COMPRENANT UN SYSTÈME DE GUIDAGE DE FLUIDE DE REFROIDISSEMENT POUR L'ACHEMINEMENT ET LA RÉPARTITION D'UN FLUX DE FLUIDE ENTRE DEUX ARBRES D'ENTRÉE DE TRANSMISSION

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Application
EP 20740201 A 20200604

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Abstract (en)
[origin: WO2021000988A1] The invention relates to a drive unit (1) for a motor vehicle drivetrain, having a double clutch (2), two gearbox input shafts (4, 5), which are arranged coaxially relative to each other and mounted rotatably relative to each other via a rolling bearing (3), wherein a first partial clutch (6a) of the double clutch (2) is operatively connected to a first gearbox input shaft (4) and a second partial clutch (6b) of the double clutch (2) is operatively connected to a second gearbox input shaft (5), which is slid onto the first gearbox input shaft (4) radially from the outside, and having a coolant guidance system (8), which is implemented in part by a radial gap (7) reserved radially between the two gearbox input shafts (4, 5). The coolant guidance system (8) is designed such that a first partial flow (9a), which leads axially to the rolling bearing (3), and a second partial flow (9b), which is axially opposed to the first partial flow (9a) and is larger than the first partial flow (9a), are generated during operation. The two gearbox input shafts (4, 5) and the rolling bearing (3) are designed such that a fluid flow (11) flowing radially inward through an input opening (10) of the second gearbox input shaft (5) is divided into the first and second partial flow (9a, 9b) during operation within the radial gap (7).

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Citation (search report)
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