

Title (en)
WHEEL HEAD TRANSMISSION FOR A WHEEL HEAD OF A MOTOR VEHICLE DRIVE AXLE, AND WHEEL HEAD

Title (de)
RADKOPFGETRIEBE FÜR EINEN RADKOPF EINER KRAFTFAHRZEUGANTRIEBSACHSE SOWIE RADKOPF

Title (fr)
TRANSMISSION DE TÊTE DE MOYEU POUR UNE TÊTE DE MOYEU D'UN ESSIEU MOTEUR DE VÉHICULE AUTOMOBILE AINSI QUE TÊTE DE MOYEU

Publication
EP 3941760 A1 20220126 (DE)

Application
EP 20713588 A 20200320

Priority
• DE 102019203920 A 20190322
• EP 2020057837 W 20200320

Abstract (en)
[origin: WO2020193423A1] The invention relates to a wheel head transmission (1) for a wheel head of a motor vehicle drive axle, in particular of a drive axle of a construction machine, comprising a first shaft (W1) and a second shaft (W2) in the form of a drive shaft (AnW) and an output shaft (AbW), which are connected to one another via a planetary transmission (PG). To now create a wheel head transmission (1) which is distinguished by a compact construction and a high transmission ratio, the planetary transmission (PG) is made up of a first planetary stage (P1) and a second planetary stage (P2), which respectively comprise in each case one first element (E11, E12), in each case one second element (E21, E22) and in each case one third element (E31, E32) in the form of in each case one sun gear (S01, S02), in each case one planet carrier (PS1, PS2) and in each case one ring gear (H01, H02). Here, the first element (E11) of the first planetary stage (P1) is connected to the first shaft (W1) for conjoint rotation, while the second element (E21) of the first planetary stage (P1) and the third element (E32) of the second planetary stage (P2) are connected to one another for conjoint rotation and are jointly connected to the second shaft (W2) for conjoint rotation. Furthermore, the third element (E31) of the first planetary stage (P1) and the first element (E12) of the second planetary stage (P2) are connected to one another for conjoint rotation, whereas the second element (E22) of the second planet stage (P2) is immobilized.

IPC 8 full level
B60B 35/12 (2006.01)

CPC (source: EP US)
B60B 35/125 (2013.01 - EP); **B60K 17/046** (2013.01 - EP); **F16H 1/46** (2013.01 - EP US); **F16H 57/0018** (2013.01 - US); **F16H 57/082** (2013.01 - US); **B60Y 2200/41** (2013.01 - EP)

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

DOCDB simple family (publication)
DE 102019203920 A1 20200924; CN 113597378 A 20211102; CN 113597378 B 20231219; EP 3941760 A1 20220126; US 11598394 B2 20230307; US 2022163095 A1 20220526; WO 2020193423 A1 20201001

DOCDB simple family (application)
DE 102019203920 A 20190322; CN 202080022131 A 20200320; EP 2020057837 W 20200320; EP 20713588 A 20200320; US 202017441459 A 20200320