

Title (en)

TEST STAND FOR TESTING A REAL TEST BODY IN A DRIVING OPERATION

Title (de)

PRÜFSTAND ZUM TESTEN EINES REALEN PRÜFLINGS IM FAHRBETRIEB

Title (fr)

BANC D'ESSAI POUR TESTER UNE PIÈCE À TESTER RÉELLE PENDANT LA CONDUITE

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Application

EP 21777616 A 20210812

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- AT 2021060281 W 20210812

Abstract (en)

[origin: WO2022032320A1] The invention relates to a test stand (1) and to a method for testing a real test body in a driving operation. The test body has at least one real component (3a, 3b, 3c, 3d, 3e, 3f) of a vehicle (19), said component being capable of applying a torque to a wheel hub (4a, 4b, 4c, 4d). The test stand (1) has a loading machine (5a, 5b, 5c, 5d) which is designed to be connected to the wheel hub (4a, 4b, 4c, 4d) so as to transmit a torque, an actuator (6a, 6b, 6c, 6d) which is designed to produce a relative movement between the wheel hub (4a, 4b, 4c, 4d) and a vehicle frame (7) which supports the wheel hub (4a, 4b, 4c, 4d), simulation means (8) for simulating the driving operation, wherein the simulation means (8) are designed to simulate a virtual wheel (9a, 9b, 9c, 9d) and dynamics of the virtual wheel (9a, 9b, 9c, 9d) as if the wheel were arranged on the wheel hub (4a, 4b, 4c, 4d), and control means (10) which are designed to operate the real test body on the test stand (1) while taking into consideration the simulated dynamics of the virtual wheel (9a, 9b, 9c, 9d).

IPC 8 full level

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