

Title (en)

STEER-BY-WIRE STEERING SYSTEM HAVING CHARACTERISTIC CURVES FOR A STEERING RATIO ADAPTED TO THE STEERING SITUATION

Title (de)

STEER-BY-WIRE-LENKSYSTEM MIT KENNLINIEN FÜR EINE DER LENKSITUATION ANGEPASSTE LENKÜBERSETZUNG

Title (fr)

SYSTÈME DE DIRECTION À COMMANDE ÉLECTRIQUE À CARACTÉRISTIQUES DE DÉMULTIPLICATION DE DIRECTION ADAPTÉE À LA SITUATION DE DIRECTION

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Abstract (en)

[origin: WO2020002204A1] The invention relates to a steer-by-wire steering system for a motor vehicle, comprising an electronically controlled steering actuator (9), which acts on steered wheels (10), as a function of a steering wheel angle (SWA) applied to the steering wheel, and which, by means of a steering gear (11), pivots the steered wheels (10) by a wheel steering angle (RWA), and a feedback actuator (4), which transfers feedback from the road to a steering shaft (2) connected to the steering wheel (3), wherein the steer-by-wire steering system has at least two characteristic curves for a steering ratio between the wheel steering angle (RWA) and the steering wheel angle (SWA), wherein the at least two characteristic curves have one characteristic curve for low speeds (16) and one characteristic curve for high speeds (17), and wherein the characteristic curve for low speeds (16) is linear and the characteristic curve for high speeds (17) is non-linear.

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