

Title (en)
STEER-BY-WIRE SYSTEM

Title (de)
STEER-BY-WIRE-SYSTEM

Title (fr)
SYSTEME DE DIRECTION PAR CABLE

Publication
EP 1339567 A1 20030903 (EN)

Application
EP 00965078 A 20000918

Priority
• US 0025454 W 20000918
• US 15445300 P 20000917

Abstract (en)
[origin: WO0222397A1] A closed loop steer by wire control system (10) has three main components, a steering wheel unit (14), a roadwheel unit (16), and a master control unit (12). Signals generated by sensors in the steering wheel unit (14) and roadwheel unit (16) are passed back to the master control unit (12) for processing. These signals include tie-rod force signals (24, 26), and a steering wheel position signal. The master control unit (12) uses these signals to calculate a steering wheel reaction torque signal (18) which is sent back to the steering wheel unit (14) to provide the operator with a tactile feedback, while roadwheel command signals (19, 22) are sent to roadwheel units to provide steering direction. An Ackerman correction unit is also used to correct the left and right roadwheel positions to track about a common center.

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