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(54) Title: GEAR SHIFT CONTROL DEVICE FOR A VEHICLE GEARBOX WITH A ROTATING AND AXIALLY FLOATING DRUM

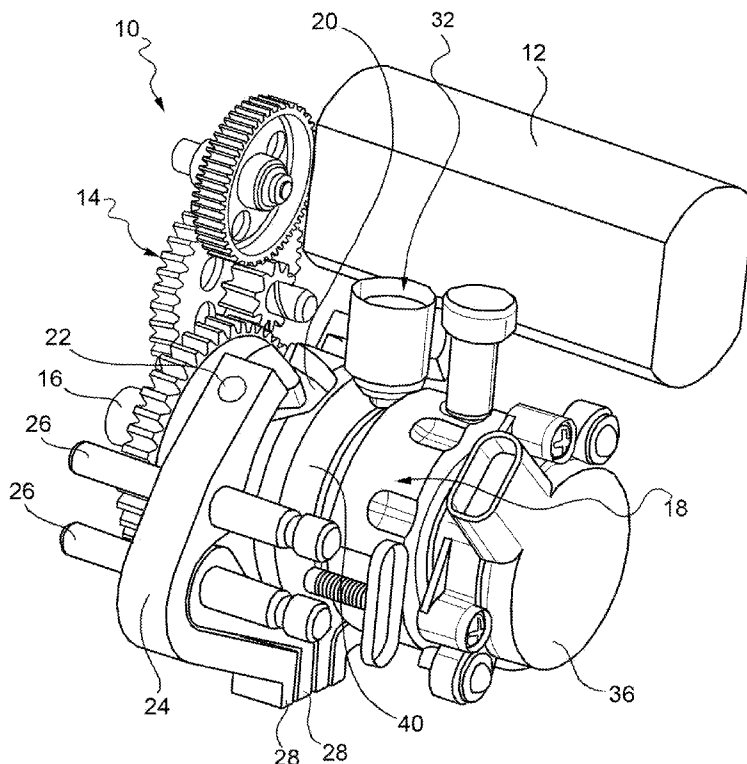


FIG.1

(57) Abstract: The control device (10) comprises an electric motor (12), a reduction gear (14), a shaft (16) operable by the electric motor (12) via the reduction gear (14), and a drum (18) mounted on the shaft (16) so as to be connected for rotation therewith but free to slide axially relative thereto. The drum (18) has on its cylindrical lateral surface a guide groove (20) in which a plurality of studs (22) are guided, each of the studs being drivingly connected for translation with a respective shift finger (24) in such a manner that the rotary motion of the drum (18) is converted into the translational motion of the shift fingers (24) to control the engagement of the gears according to predetermined modes of operation. The control device (10) further comprises a locking device (32) arranged to lock the translational motion of the drum (18) during the synchronization and gear engagement phases and to unlock the translational motion of the drum (18) upon completion of the engagement of the gear.



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