

**Coupling method for redundant servo devices of an actuator control system,
associated system and device**

Abstract

5 The invention relates to a system (30) for controlling an actuator (TS) comprising a plurality of
redundant servo devices (FC-1, FC-2, FC-3) and producing values of the same magnitude
($\Delta 1$, $\Delta 2$ and $\Delta 3$) from the same set point (Gsp) and the same measurement data (Gs1, Gs2,
Gs3), the redundant servo devices (FC-1, FC-2, FC-3) furthermore being in mutual
communication (B) so that each redundant servo device (FC-1, FC-2, FC-3) accesses, by
10 reading, the last values of the variable ($\Delta 1$, $\Delta 2$, $\Delta 3$) produced by the redundant servo devices
and implements a method for correcting the respective productions thereof by coupling. The
invention thus prevents any divergence of these variables ($\Delta 1$, $\Delta 2$, $\Delta 3$). Such a system (30)
may equip a vehicle with a load consisting of a driver, a passenger and/or goods or freight and
comprising one or more actuators controlled in this way.

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[Fig. 5]

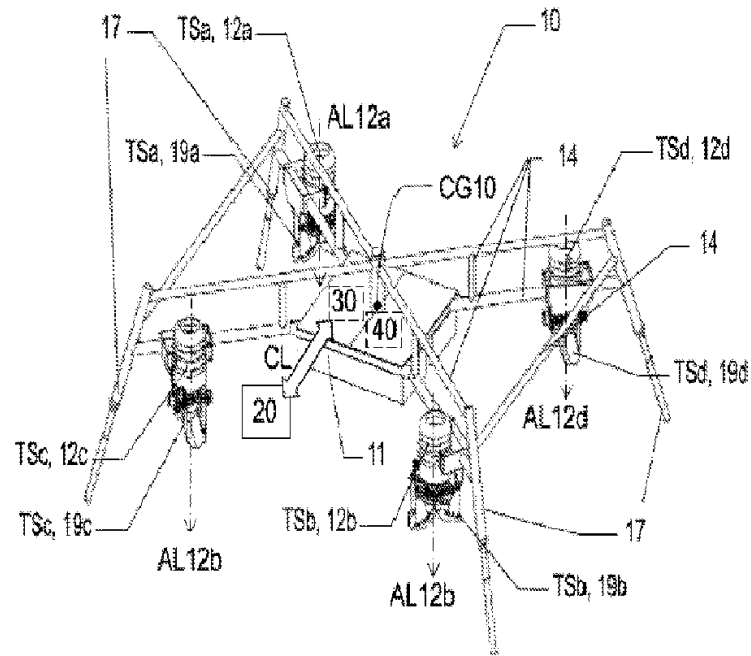


FIG. 1

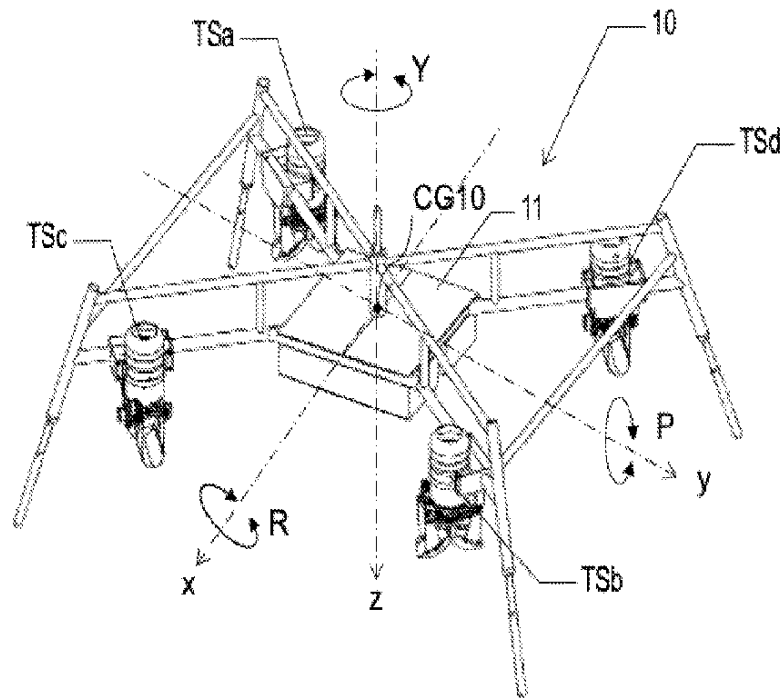


FIG. 1A

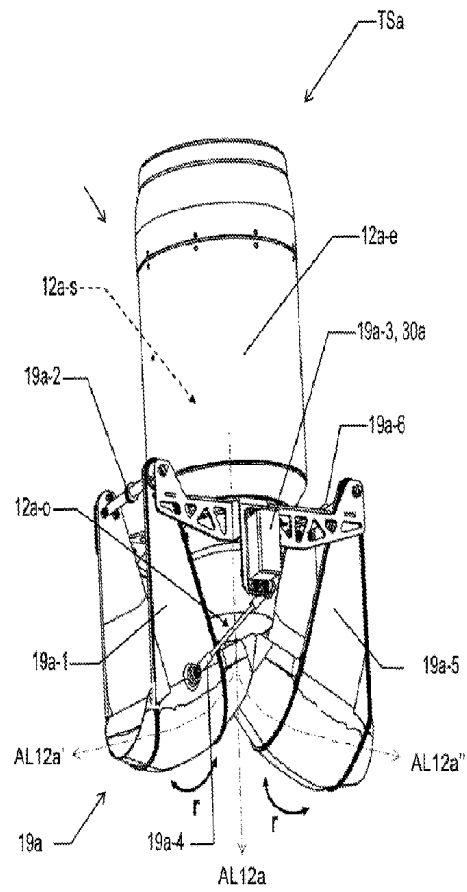


FIG. 2

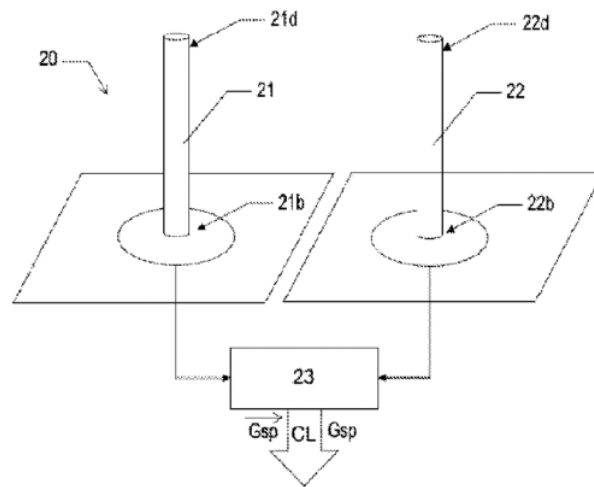


FIG. 3

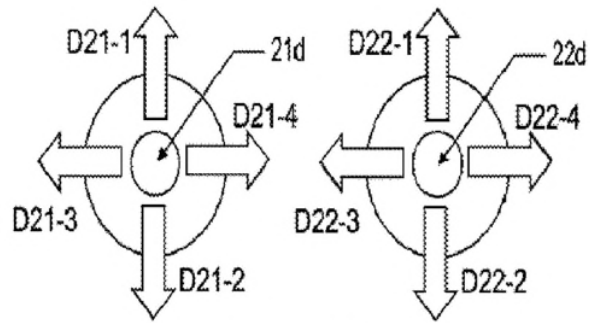


FIG. 3A

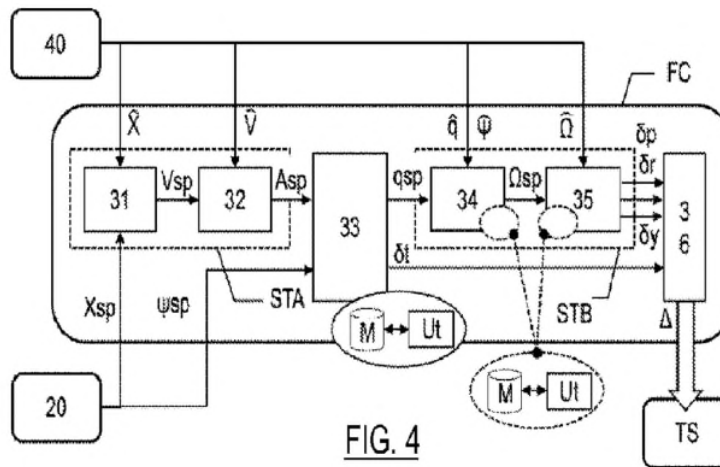


FIG. 4

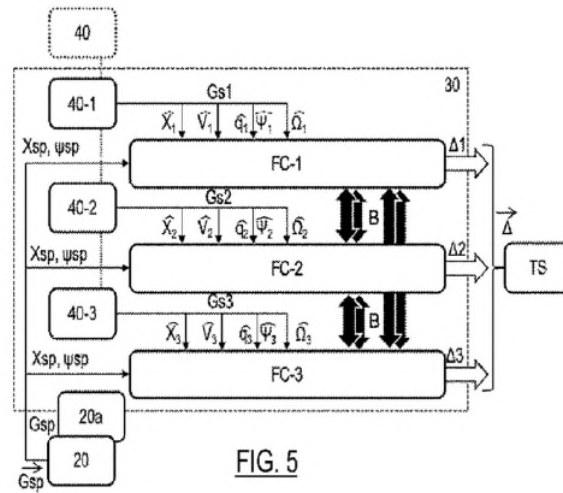


FIG. 5

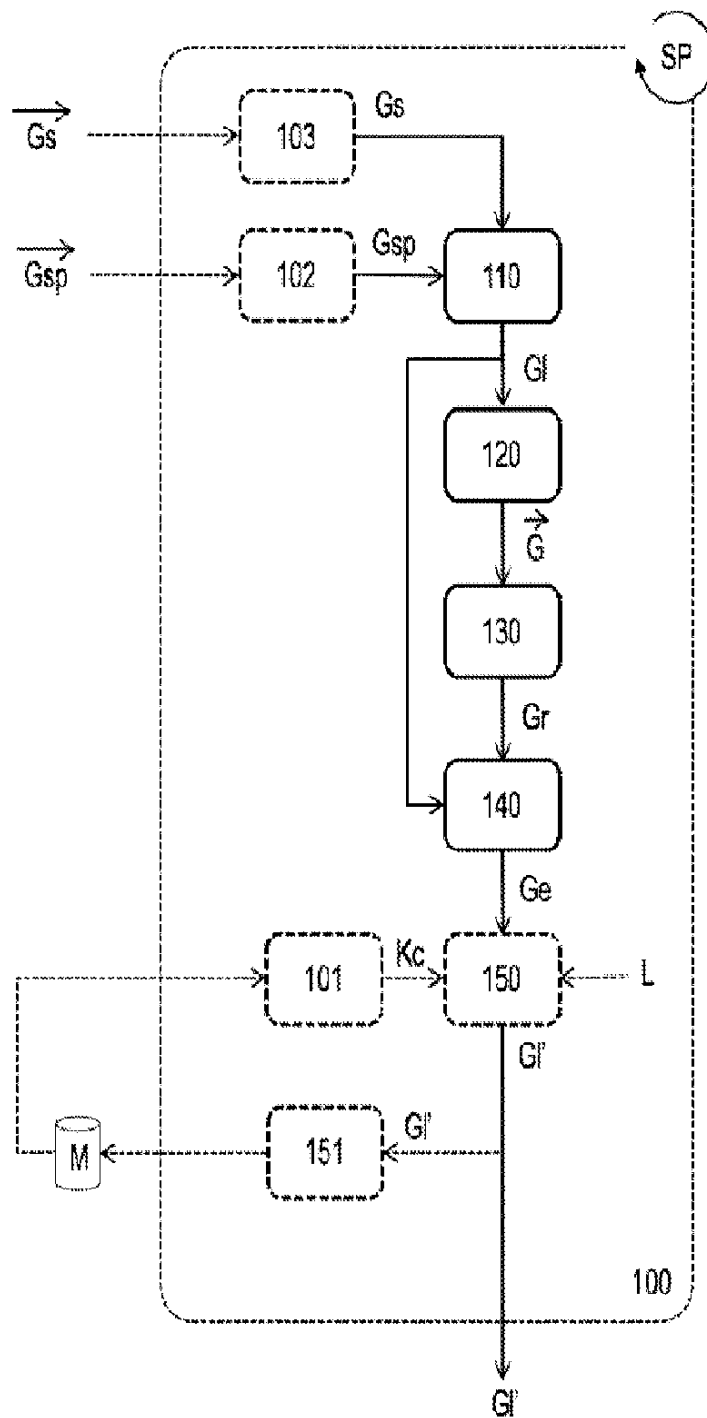


FIG. 6

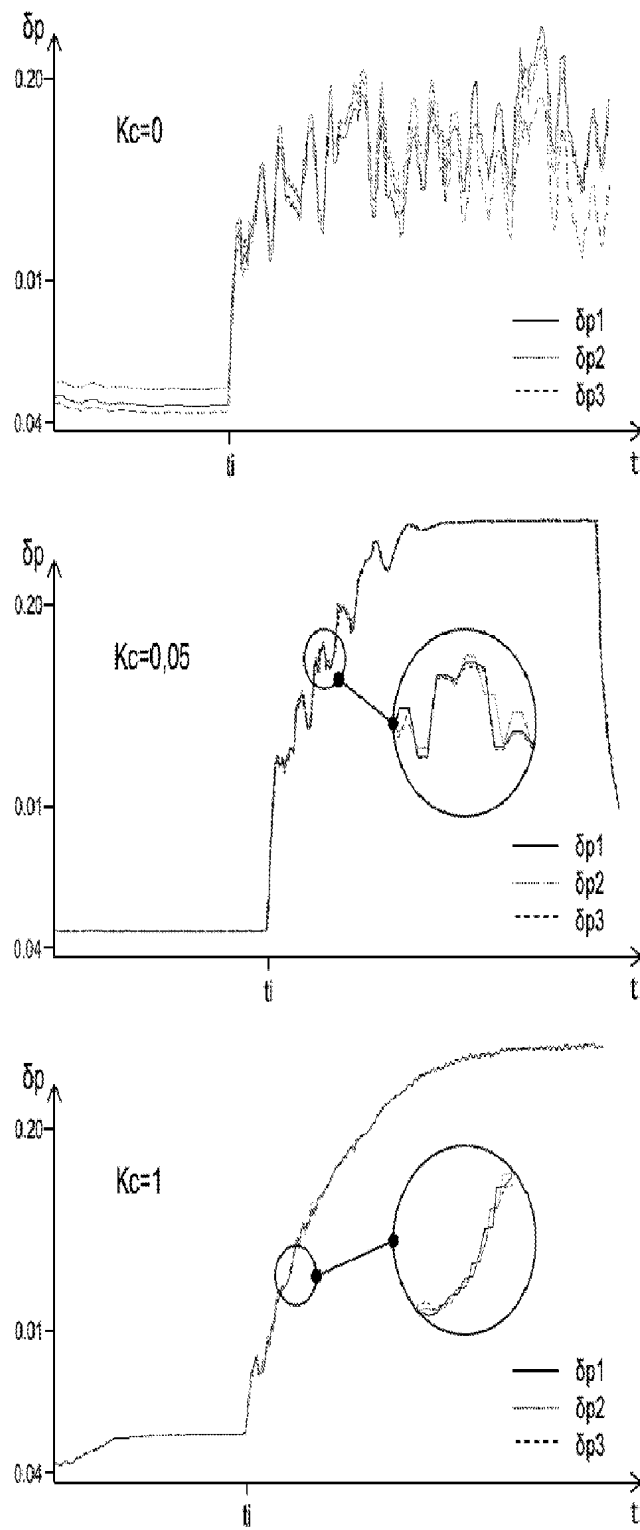


FIG. 7

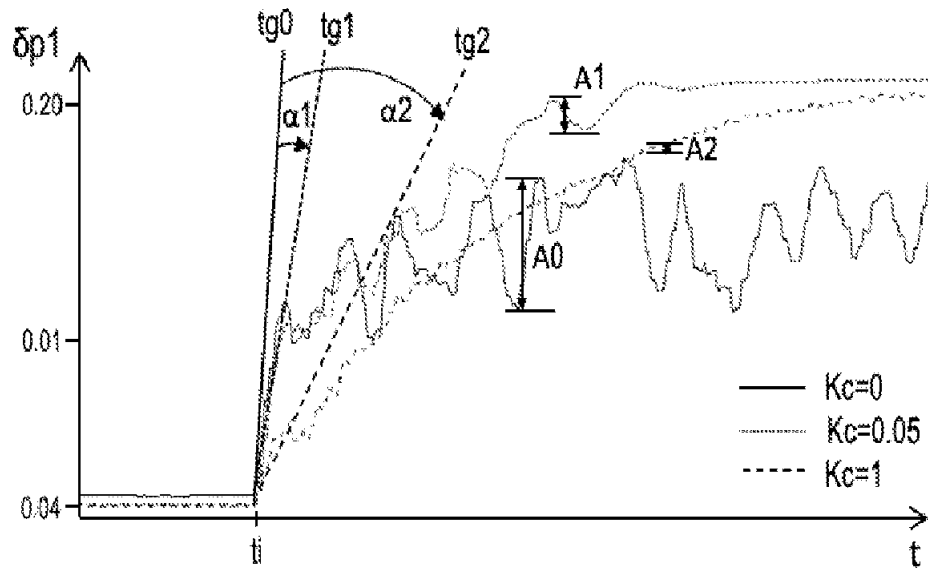


FIG. 7A

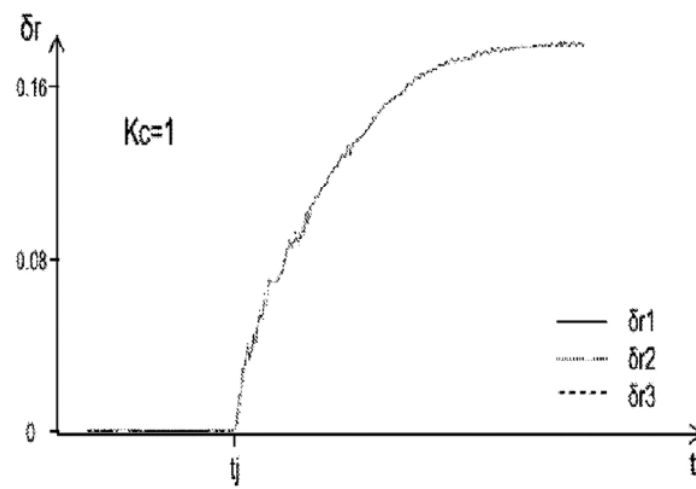
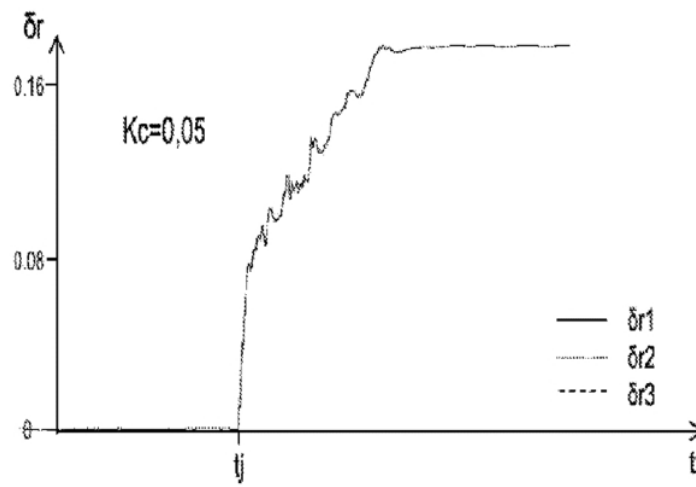
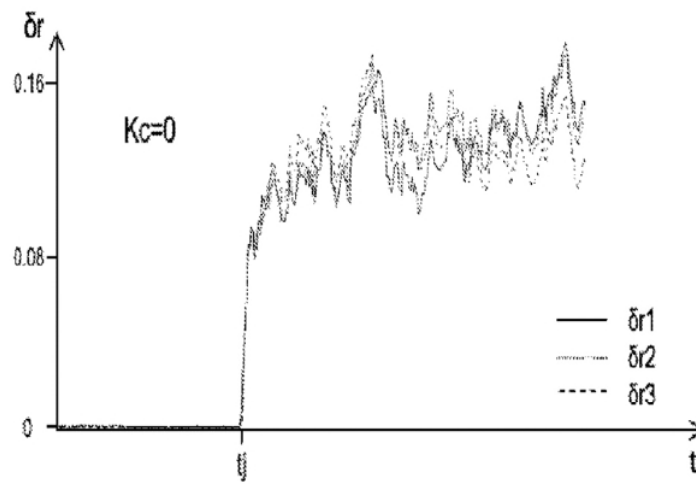


FIG. 8