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(54) Title: ACTUATOR FOR RECONFIGURABLE MOBILE ROBOTS

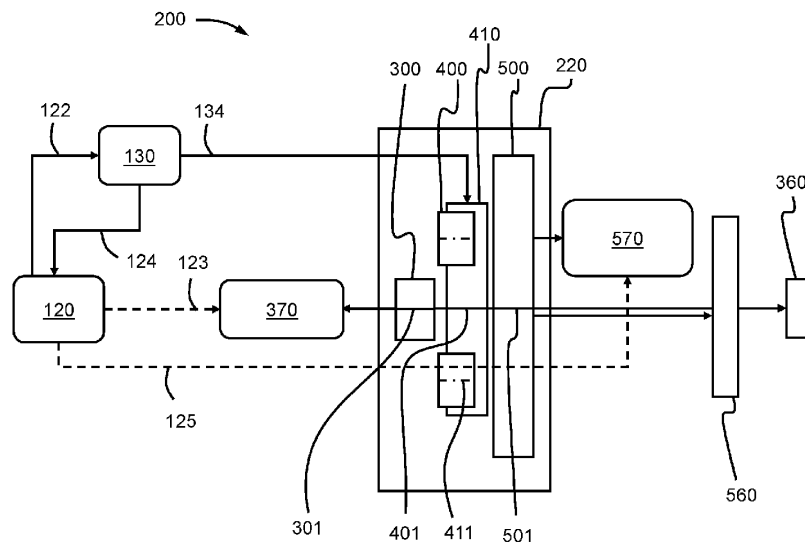


FIG. 2

(57) Abstract: An actuator includes a plurality of planetary gears concurrently in meshing engagement with a sun gear and a ring gear. The actuator includes a first brake member and a second brake member. The first output member is rotationally drivable by the sun gear. The second output member is rotationally drivable by the ring gear. The first brake device is operable to switch between an unbraked state and a braked state. The first brake device in the unbraked state is configured to enable rotation of the first output member. The second brake device is operable to switch between the unbraked state and the braked state. The second brake device in the unbraked state is configured to enable rotation of the second output member. The second brake device in the braked state is configured to prevent rotation of the second output member.

[Continued on next page]

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KH, KN, KP, KR, KW, KZ, LA, LC, LK, LR, LS, LU, LY,
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