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(54) Title (EN): ACTUATOR FLEXIBLE MEMBER WITH REACTION FEATURE

(54) Title (FR): ORGANE FLEXIBLE D'ACTIONNEUR PRÉSENTANT UN ÉLÉMENT DE RÉACTION

(57) Abstract:

(EN): An actuator includes a stiff base member defining a bottom of the actuator; a flexible member connected to the stiff base member and having a sidewall and a contact surface on top of the flexible member, the flexible member and the stiff base member defining a fluid chamber therebetween, the sidewall having a first end connected to the stiff base member and a second end, the second end and the contact surface defining a transition area therebetween, the flexible member being configured to expand when the fluid chamber is filled with fluid; and a reaction feature placed on the transition area that is configured to govern movement of the sidewall.

(FR): La présente invention concerne un actionneur comprenant un organe de base rigide définissant un fond de l'actionneur ; un organe flexible relié à l'élément de base rigide et possédant une paroi latérale et une surface de contact sur la partie supérieure de l'organe flexible, l'organe flexible et l'élément de base rigide définissant entre eux une chambre de fluide, la paroi latérale ayant une première extrémité reliée à l'élément de base rigide et une seconde extrémité, la seconde extrémité et la surface de contact définissant entre elles une zone de transition, l'organe flexible étant configuré pour se dilater lorsque la chambre de fluide est remplie de fluide ; et un élément de réaction placé sur la zone de transition qui est configuré pour commander le mouvement de la paroi latérale.

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