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(57) Abstract :

The present disclosure relates to a clutch mechanism adapted to be configured with a leg of a space vehicle. The clutch mechanism includes a rotor configured at a centre of the clutch mechanism. A first circular member, having one or more extensions at an outer circumference of the first circular member, operatively configured with the rotor. A rotation of the rotor in a first direction facilitates a rotation of the first circular member in the first direction. A second circular member having one or more cavities corresponding to the one or more extensions. When the rotor rotates in the first direction, the first circular member is expanded outwards such that the one or more extensions of the first circular member are engaged with the one or more cavities of the second circular member facilitating rotation of the second circular member in the first direction.

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