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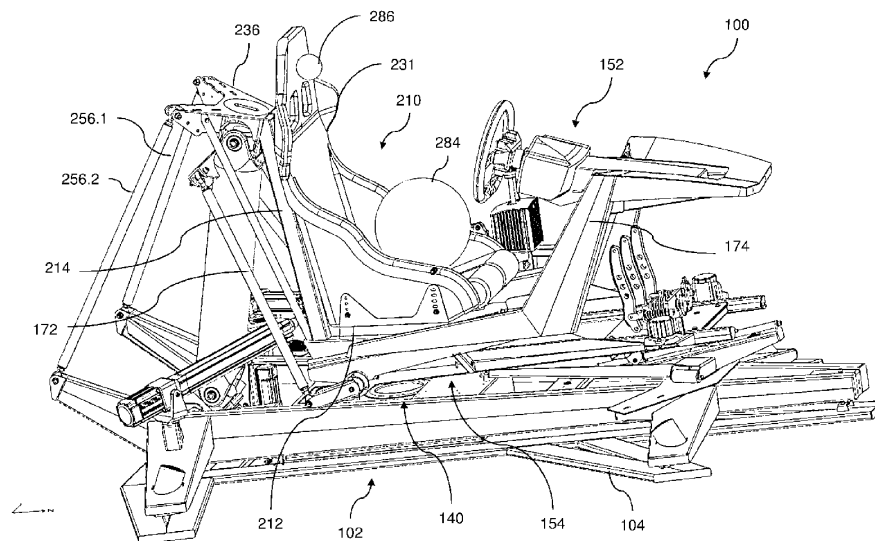


Figure 7

(57) Abstract: A motion simulation apparatus includes a motion platform. A carrier for carrying a user is mounted on the motion platform. The apparatus has a drive arm with a lower end that is pivotally mounted on a substrate to pivot relative to the substrate with two degrees of freedom of movement and an upper end that is pivotally connected to the motion platform to pivot with respect to the motion platform with two degrees of freedom of movement. The apparatus has two guide arms, each guide arm having a lower end that is pivotally mounted on the substrate to pivot relative to the substrate with three degrees of freedom of movement and an upper end that is pivotally connected to the motion platform to pivot relative to the motion platform with three degrees of freedom of movement. The drive arm, the guide arms and the motion platform define a dynamic frame that can pivot with respect to the substrate such that a resultant movement of the motion platform can be imparted to the carrier.

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