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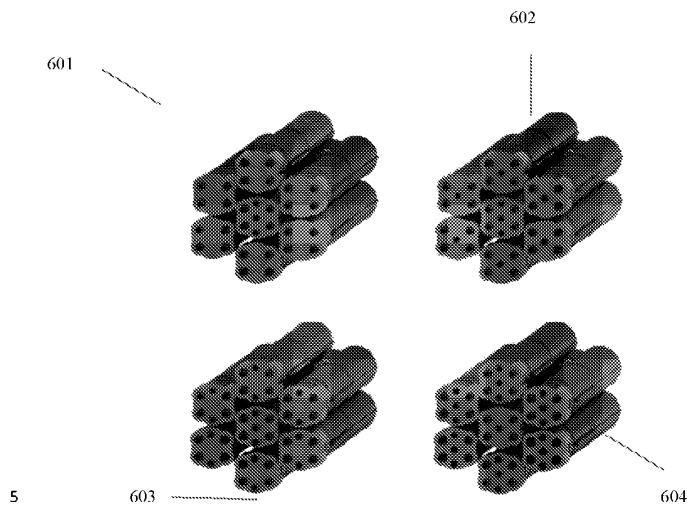
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(54) Title: MODULAR CONFIGURATION OF LAUNCH VEHICLE SYSTEM

Fig 6



(57) Abstract: The present invention relates to a modular configuration of the launch vehicle system. More specifically, it relates to the modular configuration technology developed to optimise the launch vehicle with respect to the number of engines in the lower stage or the number of stages itself in order to get a most efficient launch possible for a particular payload being launched. In the present invention the vehicle is such that the modularity is passed down to sub-system level which thereby reduces the mass of unused components and the modifiable cluster can be used as a booster unit to carry heavier payloads to higher orbits. Depending upon the mass of the payload to be carried to a particular orbit, either the number of stages or the number of engines (601, 602, 603, 604), are either attached or removed from the vehicle and thus increasing the efficiency of the trajectory. The present invention reduces the time and cost involved in reconfiguration as well.

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