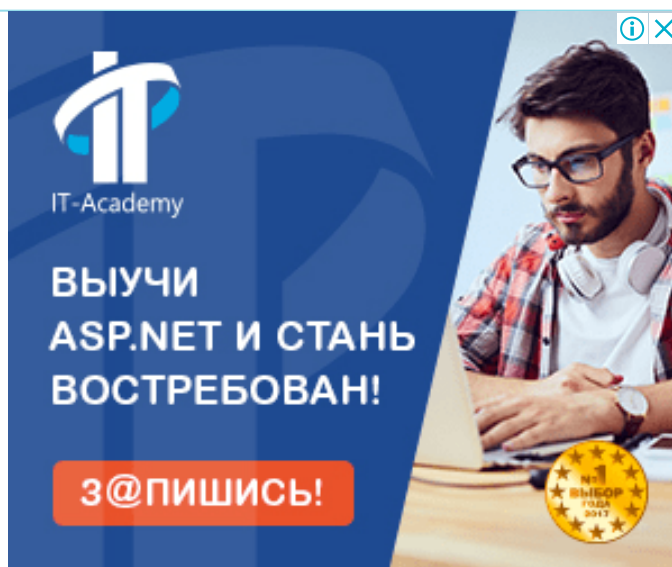


JUSTIA

Laws & Legal Resources.



Search Patents

Circular mass accelerator

Patent number: 10202210

Abstract: A mass accelerator for launching objects, such as a payload, via rotational acceleration is disclosed. The system may comprise a chamber maintained at near vacuum pressure, a motor that rotates a hub attached to a tethered projectile in a circular motion inside the vacuum chamber, accelerating the payload until the payload reaches a desired launch speed. The payload may be released from the tether upon reaching the desired launch speed and may exit the chamber through an exit port that is opened briefly to allow the payload to exit. In various embodiments, the circular mass acceleration system can be used to launch a payload into space orbit. By employing rotational acceleration via a

We use cookies to improve the experience of our website. By continuing to use our website, you consent to the use of cookies. To understand more about how we use cookies, please see our [Privacy Policy](#).

Accept & Continue

Date of Patent: February 12, 2019

Assignee: SpinLaunch Inc.

Inventor: Jonathan Yaney

Circular mass accelerator

Patent number: 10059472

Abstract: A mass acceleration system for launching objects, such as a projectile or launch vehicle, via rotational acceleration is disclosed. The system may comprise a chamber maintained at near vacuum pressure, a motor that rotates a hub attached to a tethered projectile in a circular motion inside the vacuum chamber, accelerating the projectile until the projectile reaches a desired launch speed. The projectile may be released from the tether upon reaching the desired launch speed and may exit the chamber through an exit port that is opened briefly to allow the projectile to exit. In various embodiments, the circular mass acceleration system can be used to launch a projectile into space orbit. By employing rotational acceleration via a mechanical approach, the acceleration system provides a cost-effective reusable system for launching objects.

Type: Grant

Filed: April 19, 2016

Date of Patent: August 28, 2018

Assignee: SpinLaunch Inc.

Inventor: Jonathan Yaney

Narrow Results

Filter by US Classification

124/31 (2)

We use cookies to improve the experience of our website. By continuing to use our website, you consent to the use of cookies. To understand more about how we use cookies, please see our [Privacy Policy](#).

Accept & Continue