WHAT IS CLAIMED IS:

1. A system comprising:

a cylindrical conductive member including a first latch element; and

a cylindrical magnetic member including a second latch element,

wherein one of the conductive member and the magnetic member can translate axially with respect to the other of the conductive member and the magnetic member along a central longitudinal axis of the magnetic member,

wherein one of the conductive member and the magnetic member can rotate with respect to the other of the conductive member and the magnetic member about the central longitudinal axis of the magnetic member,

wherein movement of the conductive member with respect to the magnetic member induces an eddy current drag force that resists the movement of the conductive member with respect to the magnetic member, and

wherein engagement of the first latch element with the second latch element halts movement of the conductive member with respect to the magnetic member.

2. The system of claim 1 wherein the magnetic member is hollow and at least partially surrounds the conductive member.

3. The system of claim 1 wherein the conductive member is hollow and at least partially surrounds the magnetic member.

4. The system of any one of the above claims wherein the first latch element is a pawl and the second latch element is an indentation.

5. The system of any one of claims 1 to 3 wherein the first latch element is an indentation and the second latch element is a pawl.

6. The system of any one of the above claims, further comprising:

a vehicle having a wheel, the wheel operatively coupled to either the conductive member or the magnetic member.

7. The system of any one of claims 1 to 5, further comprising:

a zip line system, wherein the zip line system includes the conductive member and the magnetic member.

8. A system comprising:

a stator including a first latch element;

a rotor having a central longitudinal axis, the rotor configured to rotate with respect to the stator about the central longitudinal axis; and

a second latch element rotatably coupled to the rotor, the second latch element configured to rotate with respect to the rotor about a first axis parallel to and offset from the central longitudinal axis,

~~a third latch element rotatably coupled to the rotor, the third latch element configured to rotate with respect to the rotor about a second axis parallel to and offset from the central longitudinal axis; and~~

~~a fourth latch element rotatably coupled to the rotor, the fourth latch element configured to rotate with respect to the rotor about a third axis parallel to and offset from the central longitudinal axis;~~

wherein rotation of the rotor with respect to the stator induces an eddy current drag force that resists the movement of the rotor with respect to the stator, and

wherein engagement of the first latch element with the second latch element halts rotation of the rotor with respect to the stator.

9. The system of claim 8 wherein the stator includes a magnet and the second latch element includes a conductor.

10. The system of claim 8 wherein the stator includes a conductor and the second latch element includes a magnet.

11. The system of any one of claims 8 to 10, further comprising:

a spring having a first end coupled to the rotor and a second end opposite the first end coupled to the second latch element.

12. The system of claim 11 wherein the spring biases the second latch element to rotate away from the stator.

13. The system of claim 11 wherein the spring biases the second latch element to rotate with respect to the rotor in a direction about the first axis matching a direction of rotation of the rotor with respect to the stator about the central longitudinal axis.

14. The system of any one of claims 8 to 13 wherein the first latch element is an indentation.

15. The system of any one of claims 8 to 13 wherein the first latch element is a protrusion.

16. The system of any one of claims 8 to 15, further comprising:

a vehicle having a wheel, the wheel operatively coupled to the rotor.

17. The system of any one of claims 8 to 15, further comprising:

a zip line system, wherein the zip line system includes the stator, the rotor, the first latch element, and the second latch element.

18. The system of any one of claims 8 to 17, further comprising: a third latch element rotatably coupled to the rotor, the third latch element configured to rotate with respect to the rotor about a second axis parallel to and offset from the central longitudinal axis.

19. The system of claim 18, further comprising: a fourth latch element rotatably coupled to the rotor, the fourth latch element configured to rotate with respect to the rotor about a third axis parallel to and offset from the central longitudinal axis.