CLAIMS

1. An inertia ~~A~~ thrust generating device comprising:

two electromagnet devices;

wherein each electromagnet device comprising:

~~a stator;~~

a stator coil;

a plunger shaft; and

two magnets;

where each magnet arranged with same polarity facing each other and secured at each end of the plunger shaft;

~~wherein~~ where ~~one magnet is disposed at each end of~~ the plunger shaft is arranged with ~~and outside~~ one magnet at one end, near end or within the ~~a~~ stator coil and the second magnet on the plunger shaft arranged at the other end or outside of the stator coil;

~~a stator coil;~~

~~wherein the stator coil is arranged for exerting a magnetic field on the magnets disposed on a plunger shaft;~~

whereby the two electromagnet devices are arranged to create a compressed magnetic repulsive flux zone to makeup the inertia thrust generating device;

wherein each electromagnet device the stator coil is current controlled to exert a magnetic field driving force on the two magnets on the plunger shaft, to move the plunger shaft;

where one magnet and the plunger shaft can move within the stator coil;

~~wherein the plunger shaft to exert and/or to receive a force within the thrust generating device;~~

whereby the inertia thrust generating device is capable of creating a resultant thrust or motion as the result of the driven movement or non-driven movement of each plunger shaft and the flux expansion of the compressed magnetic repulsive flux.

~~delivering a thrust on the application.~~

2. An inertia ~~A~~ thrust generating device comprising ~~wherein there is~~ of one electromagnet device, in which comprising of one stator coil, a plunger shaft with two magnets arranged with same polarity facing each other and secured at each end of the plunger shaft;

where the plunger shaft is arranged with one magnet at one end, near end or within the stator coil and the second magnet on the plunger shaft at the other end or outside of the stator coil;

wherein the inertia thrust generating device include one or more magnets attached to a mounting plate to create a compressed magnetic repulsive flux zone;

wherein the mounting plate is fixed or adjustable to vary the compression of magnetic repulsive flux zone;

wherein the stator coil is current controlled to exert a magnetic field driving force on the two magnets on the plunger shaft, to move the plunger shaft;

where one magnet and the plunger shaft can move within the stator coil;

whereby the inertia thrust generating device is capable of creating a resultant thrust or motion as the result of driven movement of the plunger shaft and the flux expansion of the compressed magnetic repulsive flux.

3. ~~The device as claimed in claim-2, wherein it includes a motorized device~~.

4. A ~~The~~ device as according to claim-1, claim-2 or claim -15, ~~claimed in claim-1, claim-2 and claim-3, wherein~~ in which the plunger shaft at one or both ~~electromagnets~~ electromagnet devices comprising ~~the plunger shaft is arranged to secure~~ more than two magnets.

5. A ~~The~~ device as according to claim-1, claim-2 or claim -15, ~~claimed in claim-1, claim-2, claim-3 and claim-4, wherein~~ in which the plunger shaft at one or both ~~electromagnets~~ electromagnet devices comprising ~~the plunger shaft is arranged to secure~~ one magnet.

6. ~~The device as claimed in claim-1, claim-2, claim-3, claim-4 and claim-5, wherein one or both electromagnets the plunger shaft is arranged with a flange.~~

7. ~~The device as claimed in claim-1, claim-2, claim-3 and claim-6, wherein one or both electromagnets the stator is arranged to hold one or more stator coil.~~

8. ~~The device as claimed in claim-1, claim-2, claim-3, claim-6 and claim-7, wherein one or both electromagnets the stator is arranged to hold one or more magnet.~~

9. ~~The device as claimed in any preceding claims, wherein the plunger shaft is arranged detachable from stator.~~

10. A ~~The~~ device as according to claim-1, claim-2 or claim-15, ~~claimed in any preceding claims wherein~~ in which one or both ~~electromagnets~~ electromagnet devices the plunger shaft and/or stator coil arranged with one or more magnet of high flux density permanent magnet, ring magnet, composite magnets and/or electromagnet.

11. A ~~The~~ device as according to claim-1, claim-2 or claim-15, ~~claimed in any preceding claims, wherein~~ in which one or both ~~electromagnets~~ electromagnet devices the plunger shaft ~~not~~ of hollow or rod profile.

12. ~~The device as claimed in any preceding claims, wherein one or both electromagnets the plunger shaft, stator and/or magnet not of cylindrical profile.~~

13. ~~The device as claimed in any preceding claims, wherein one or both electromagnets include optical and/or hall effect sensors.~~

14. A device as according to claim-1, claim-2, or claim-15, further comprising of a short guiding shaft centrally arranged at the compressed magnetic repulsive flux zone.

15. An inertia thrust generating device comprising of two electromagnet devices;

where one electromagnetic device comprising a stator coil, a plunger shaft with two magnets arranged with same polarity facing each other and secured at ends of the plunger shaft;
where the plunger shaft is arranged with one magnet at one end, near end or within the stator coil and the second magnet on the plunger shaft at the other end or outside of the stator coil;
where at the second electromagnet device which comprising of same elements and similar arrangement as in first electromagnet device, in which further comprising of one or more magnets arranged between the stator coil and the magnet on the plunger shaft that is outside of the stator coil to create a compressed magnetic repulsive flux zone to makeup the second electromagnet device;
whereby the two electromagnet devices are arranged to create another compressed magnetic repulsive flux zone to makeup the inertia thrust generating device;
wherein each stator coil is current controlled to exert a magnetic field driving force on the two magnets on the plunger shaft, to move the plunger shaft;
where one magnet and the plunger shaft can move within the stator coil;
whereby the inertia thrust generating device is capable of creating a resultant thrust or motion as the result of driven movement or non-driven movement of each plunger shaft and the flux expansion of the compressed magnetic repulsive flux.

Remarks on claims amendment

Claim-1, claim-2, claim-4, claim-5, claim-10, and claim-11 are currently amended. Claim-3, claim-6, claim-7, claim-8, claim-9, claim-12, and claim-13 are cancelled. Claim-14 and claim-15 are new claims. At amended claims mark-up copy, word strike-out as deleted and word underlined as added, and unmarked word is word as in first filed original claim.

Note: The below line reference is based on mark-up copy of claim amendment and support reference with explanation is based on clean copy of substitute description.

Claim-1: Now amended in which at line-1, the word “inertia “is added to defined the classification of the thrust generating device. This is supported under para [0004].
At line-5, in which “a stator coil” is added which is not earlier included. This is supported under para [0010] line-6, para [0015] [0016] and para [0028] which stated the function of the stator coil.
At line-8 to line-9, in which the arrangement of the two magnets of same polarity facing each other secured at ends of each plunger shaft, is added, which is not included in original claim-1. This is supported in drawings at fig-2, fig-4, fig-9, fig-10 and fig-11.
At line-10 to line-12, in which now clearly described the possible positions of the two magnets in relation to each end of the stator coil. This is supported in drawings at fig-4, and at para [0036] embodiment-5 in which include embodiment-3. Where fig-4 supported one magnet at one end or near end at one end of the stator coil, and the other magnet outside of the stator coil at the other end of stator coil. Embodiment-5 and embodiment-3 supported one magnet within the stator coil as stated in embodiment-3 where there is no magnet 10 and/or 30 stated in embodiment-5, and the second magnet at the other end of stator coil supported by fig-9, fig-10 and fig-11 of magnet 23.
At line-16 to line-17, in which beside to improve clarity, the word “compressed” is added. This is supported at para [0027] line-1, line-4, line-12 and para [0030] line-6 which described magnetic repulsive flux zone. The phase “the inertia” also added, and support is similar as at line-1.

At line-20 to line-22, in which described energized coil and the magnets create driving force is supported under para [0028] line-3 to line-9.
At line-23 to line-24, in which described the limit of the plunger shaft movement, this limit is reflected in drawings at fig-4, fig-2, fig-10 and fig-11, by the position of impact element 23/35 which limit each type of plunger shaft movement, and the movement described during device operation under para [0028] and [0029].
At line-25 to line-27, in which summarizes the device overall operation to create resultant force or motion is described under para [0028], [0029],and [0035].

Cliam-2: Now amended to include all elements and features in the device, in which comprising only one electromagnet device.
Line-1 to line-4, in which defined the type of device and number of main components and its parts and its parts orientation within the electromagnet device. This is supported at para [0004] line-1, and the parts of the electromagnet device reflected at fig-12.
Line-5 to line-7, in which described the possible positions of the two magnets in relation to each end of the stator coil. This is supported in drawings at fig-12, and at para [0036] embodiment-5 in which include embodiment-3. Where fig-12 supported one magnet at one end or near end at one end of the stator coil, and the other magnet outside of the stator coil at the other end of stator coil. Embodiment-5 and embodiment-3 supported one magnet within the stator coil stated in embodiment-3 and where there is no magnet 10 and/or 30 stated in embodiment-5, and the second magnet at the other end of stator coil supported by fig-10 and fig-11.
Line-8 to 10, in which the magnet on mounting plate is supported by drawing fig-12 and para [0036] embodiment-15.
Line-11 to line12, in which the magnet on mounting of fixed or adjustable are supported at para [0036] embodiment-15 and embobiment-16.
Line-13 to line-14, in which described the energized coil and magnets create the plunger shaft driving force. This is supported under para [0028] line-3 to line-9.
Line-15 to line-16, in which described the limit of the plunger shaft movement, this limit is reflected in drawings at fig-12, fig-10 and fig-11, by the position of impact element

23/35 which limit each type of plunger shaft movement, and the movement described during device operation under para [0028] and [0029].
Line-17 to line-19, in which summarizes the device overall operation to create resultant force or motion is described under para [0028], [0029], and [0035].

Claim-3: Cancelled

Claim-4: Now amended in which refers to more than two magnets at plunger shaft. This is supported at para [0036] embodiment-3, embodiment-8, embodiment-10 and by drawing fig-6 and fig-7.

Claim-5: Now amended in which refers to one magnet. This is supported at para [0036] embodiment-4.

Claim-6: Cancelled.

Claim-7: Cancelled.

Claim-8: Cancelled.

Claim-9: Cancelled.

Claim-10: Now amended in which refers to various type of magnet profile. This is supported at para [0036] embodiment-13.

Claim-11: Now amended in which refers to profile of plunger shaft. This is supported at para [0036] embodiment-12 for rod profile, and hollow prolife at drawings from fig-1 to fig-12.

Claim-12: Cancelled.

Claim-13: Cancelled.

Claim-14: This is a new claim. In which refers to a short guiding shaft at the compressed magnetic repulsive flux zone. This short guiding shaft is supported at drawings fig-1, fig-4, fig-5 and fig-12.

Claim-15: This a new claim. This an extension of original claim-1, in which further comprising a magnetic repulsive flux zone within one of the two electromagnet devices.
Line-1 to line-2, in which defined the type of device and number of electromagnet devices in the device. This is supported at para [0004] line-1, and fig-1.
Line-3 to line-5, in which stated the parts and described the parts arrangement within one electromagnet device. This is supported at para [0010] line-5, fig-2 & fig-3.
Line-6 to line-8, in which described the possible positions of the two magnets in relation to each end of the stator coil. This is supported in drawings at fig-1 & fig-5, and at para [0036] embodiment-5 in which include embodiment-3. Where fig-1 & fig-5 supported one magnet at one end or near end at one end of the stator coil, and the other magnet outside of the stator coil at the other end of stator coil. Embodiment-5 and embodiment-3 supported one magnet within the stator coil stated in embodiment-3 and where there is no magnet 10 and/or 30 stated in embodiment-5, and the second magnet at the other end of stator coil supported by fig-10 and fig-11 of magnet 23.
Line-9 to line-14, in which described the makeup of second electromagnet device. This is supported at bottom electromagnet device reflected on drawings fig-1 and fig-1a.
Line-15 to line-16, in which summaries the makeup of the inertia thrust generating device. This is supported at fig-1.
Line-17 to line-18, in which described each energized coil and magnets create each plunger shaft driving force. This is supported under para [0028] line-3 to line-9.
Line-19 to line-20, in which described the limit of the plunger shaft movement, this limit is reflected in drawings at fig-1, fig-5 & 5a, fig-10 and fig-11, by the position of impact element 23/35 which limit each type of plunger shaft movement, and the movement described during device operation under para [0028] and [0029]

Line-21 to line-23, in which summarizes the device overall operation to create resultant force or motion is described under para [0028], [0029], and [0035].