

A Practical Guide to 'Free Energy' Devices

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Author: Patrick J. Kelly

This is a re-worded extract from the United States Patent. It describes a motor powered solely by permanent magnets and which it is claimed can power an electrical generator.

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Inventor: Howard R. Johnson, 3300 Mt Hope Rd., Grass Lake, Mich. 49240



PERMANENT MAGNET MOTOR

ABSTRACT:

The invention is directed to the method of utilising the unpaired electron spins in ferromagnetic and other materials as a source of magnetic fields for producing power without any electron flow as occurs in normal conductors, and to permanent magnet motors for utilising this method to produce a power source. In the practice of the invention the unpaired electron spins occurring within permanent magnets are utilised to produce a motive power source solely through the superconducting characteristics of a permanent magnet, and the magnetic flux created by the magnets is controlled and concentrated to orientate the magnetic forces generated in such a manner to produce useful continuous work, such as the displacement of a rotor with respect to a stator. The timing and orientation of magnetic forces at the rotor and stator components produced by the permanent magnets is accomplished by the proper geometrical relationship of these components.

BACKGROUND OF THE INVENTION:

Conventional electric motors employ magnetic forces to produce either rotational or linear motion. Electric motors operate on the principal that when a conductor which carries a current is located in a magnetic field, a magnetic force is exerted upon it. Normally, in a conventional electric motor, the rotor, or stator, or both, are so wired that magnetic fields created by electromagnets use attraction, repulsion, or both types of magnetic forces, to impose a force upon the armature causing rotation, or linear displacement of the armature. Conventional electric motors may employ permanent magnets either in the armature or stator components, but to date they require the creation of an electromagnetic field to act upon the permanent magnets. Also, switching gear

is needed to control the energising of the electromagnets and the orientation of the magnetic fields producing the motive power.

It is my belief that the full potential of magnetic forces existing in permanent magnets has not been recognised or utilised because of incomplete information and theory with respect to atomic motion occurring within a permanent magnet. It is my belief that a presently unnamed atomic particle is associated with the electron movement of a superconducting electromagnet and the loss-less flow of currents in permanent magnets. The unpaired electron flow is similar in both situations. This small particle is believed to be opposite in charge to an electron and to be located at right angles to the moving electron. This particle must be very small to penetrate all known elements in their various states as well as their known compounds (unless they have unpaired electrons which capture these particles as they endeavour to pass through).

The electrons in ferrous materials differ from those found in most elements in that they are unpaired, and being unpaired they spin around the nucleus in such a way that they respond to magnetic fields as well as creating a magnetic field themselves. If they were paired, their magnetic fields would cancel out. However, being unpaired they create a measurable magnetic field if their spins are orientated in one direction. The spins are at right angles to their magnetic fields.

In niobium superconductors, at a critical state, the magnetic lines of force cease to be at right angles. This change must be due to establishing the required conditions for unpaired electronic spins instead of electron flow in the conductor, and the fact that very powerful electromagnets can be formed with superconductors illustrates the tremendous advantage of producing the magnetic field by unpaired electron spins rather than conventional electron flow. In a superconducting metal, wherein the electrical resistance becomes greater in the metal than the proton resistance, the flow turns to electron spins and the positive particles flow parallel in the metal in the manner occurring in a permanent magnet where a powerful flow of magnetic positive particles or magnetic flux causes the unpaired electrons to spin at right angles. Under cryogenic superconduction conditions the freezing of the crystals in place makes it possible for the spins to continue, and in a permanent magnet the grain orientation of the magnetised material allows these spins, permitting them to continue and causing the flux to flow parallel to the metal. In a superconductor, at first the electron is flowing and the positive particle is spinning; later, when critical, the reverse occurs, i.e., the electron is spinning and the positive particle is flowing at right angles. These positive particles will thread or work their way through the electron spins present in the metal.

In a sense, a permanent magnet may be considered a room-temperature superconductor. It is a superconductor because the electron flow does not cease, and this electron flow can be made to do work through the magnetic field which it creates. Previously, this source of power has not been used because it was not possible to modify the electron flow to accomplish the switching functions of the magnetic field. Such switching functions are common in a conventional electric motor where electrical current is employed to align the much greater electron current in the iron pole pieces and concentrate the magnetic field at the proper places to give the thrust necessary to move the motor armature. In a conventional electric motor, switching is accomplished by the use of brushes, commutators, alternating current, or other means.

In order to accomplish the switching function in a permanent magnet motor, it is necessary to shield the magnetic leakage so that it will not appear as too great a loss factor at the wrong places. The best method to accomplish this is to concentrate the magnetic flux in the place where it will be the most effective. Timing and switching can be achieved in a permanent magnet motor by concentrating the flux and using the proper geometry of the motor rotor and stator to make most effective use of the magnetic fields. By the proper combination of materials, geometry and magnetic concentration, it is possible to achieve a mechanical advantage of high ratio, greater than 100 to 1, capable of producing continuous motive force.

To my knowledge, previous work done with permanent magnets, and motive devices utilising permanent magnets, have not achieved the result desired in the practice of the inventive concept, and it is with the proper combination of materials, geometry and magnetic concentration that the presence of the magnetic spins within a permanent magnet may be utilised as a motive force.

SUMMARY OF THE INVENTION:

It is an object of the invention to utilise the magnetic spinning phenomenon of unpaired electrons occurring in ferromagnetic material to produce the movement of a mass in a unidirectional manner so as to permit a motor to be driven solely by the magnetic forces occurring within permanent magnets. Both linear and rotational types of motor may be produced. It is an object of the invention to provide the proper combination of materials, geometry and magnetic concentration to power a motor. Whether the motor is a linear type or a rotary type, in each instance the "stator" may consist of several permanent magnets fixed relative to each other, to create a track. This track is linear for a linear motor and circular for a rotary motor. An armature magnet is carefully positioned above this track so that an air gap exists between it and the track. The length of the armature magnet is defined by poles of opposite polarity, and the longer axis of the armature magnet is pointed in the direction of its movement.

The stator magnets are mounted so that all the same poles face the armature magnet. The armature magnet has poles which are both attracted to and repelled by the adjacent pole of the stator magnets, so both attractive and repulsive forces act upon the armature magnet to make it move.

The continuing motive force which acts on the armature magnet is caused by the relationship of the length of the armature magnet to the width and spacing of the stator magnets. This ratio of magnet and magnet spacings, and with an acceptable air gap spacing between the stator and armature magnets, produces a continuous force which causes the movement of the armature magnet.

In the practice of the invention, movement of the armature magnet relative to the stator magnets results from a combination of attractive and repulsive forces between the stator and armature magnets. By concentrating the magnetic fields of the stator and armature magnets the motive force imposed upon the armature magnet is intensified, and in the disclosed embodiments, the means for achieving this magnetic field concentration are shown.

This method comprises of a plate of high magnetic field permeability placed behind one side of the stator magnets and solidly engaged with them. The magnetic field of the armature magnet may be concentrated and directionally oriented by bowing the armature magnet, and the magnetic field may further be concentrated by shaping the pole ends of the armature magnet to concentrate the magnet field at a relatively limited surface at the armature magnet pole ends.

Preferably, several armature magnets are used and these are staggered relative to each other in the direction their movement. Such an offsetting or staggering of the armature magnets distributes the impulses of force imposed upon the armature magnets and results in a smoother application of forces to the armature magnet producing a smoother and more uniform movement of the armature component.

In the rotary embodiment of the permanent magnet motor of the invention the stator magnets are arranged in a circle, and the armature magnets rotate about the stator magnets. A mechanism is shown which can move the armature relative to the stator and this controls the magnitude of the magnetic forces, altering the speed of rotation of the motor.

BRIEF DESCRIPTION OF THE DRAWINGS:

The objects and advantages of the invention mentioned earlier, will be appreciated from the following description and accompanying drawings:

Fig. 1 is a schematic view of electron flow in a superconductor indicating the unpaired electron spins,

Fig. 2 is a cross-sectional view of a superconductor under a critical state illustrating the electron spins,

Fig. 3 is a view of a permanent magnet illustrating the flux movement through it,

Fig. 4 is a cross-sectional view illustrating the diameter of the magnet of Fig.3,

Fig. 5 is an elevational representation of a linear motor embodiment of the permanent magnet motor of the invention illustrating one position of the armature magnet relative to the stator magnets, and indicating the magnetic forces imposed upon the armature magnet,

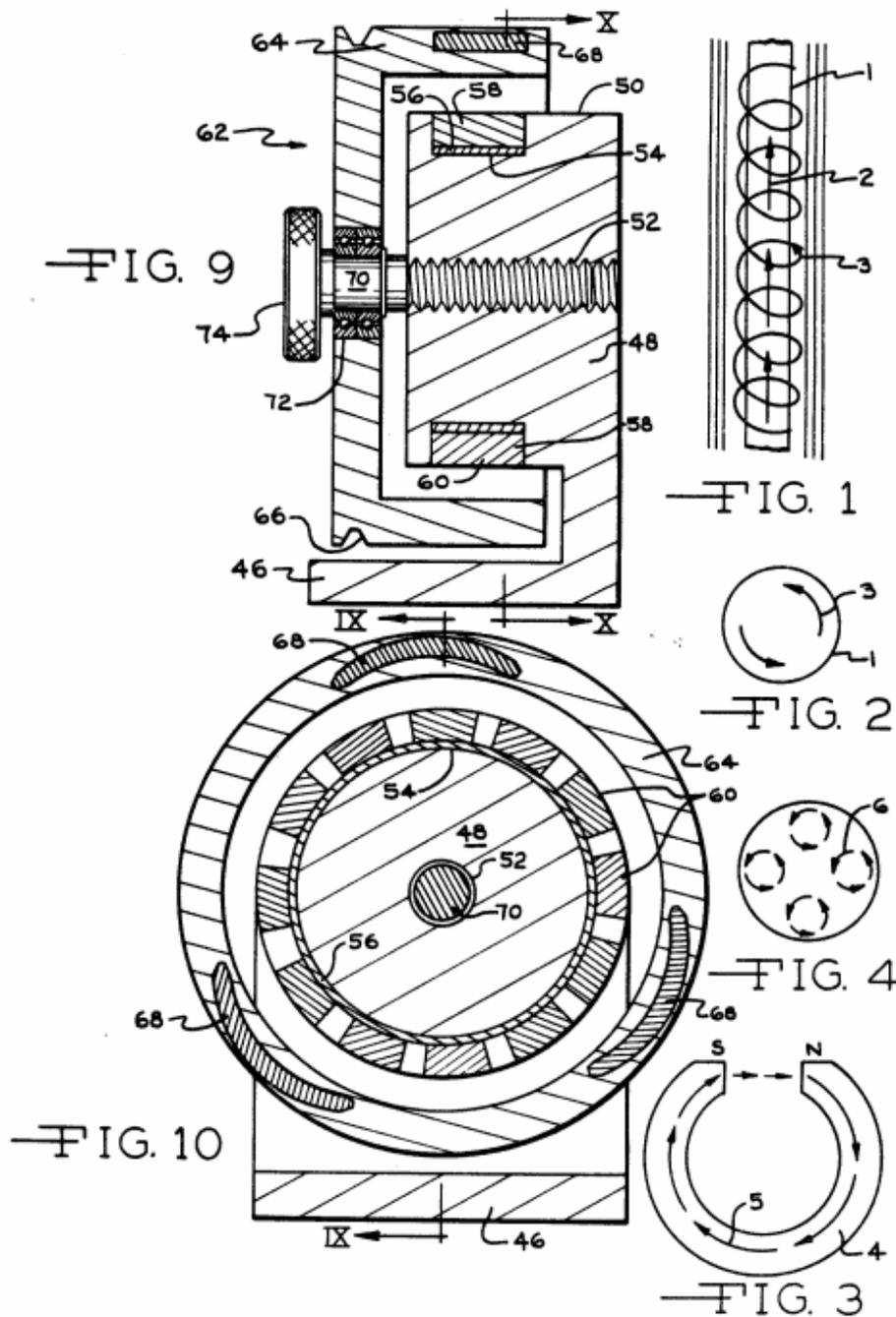
Fig. 6 is a view similar to Fig.5 illustrating displacement of the armature magnet relative to the stator magnets, and the influence of magnetic forces thereon at this location,

Fig. 7 is a further elevational view similar to Fig.5 and Fig.6 illustrating further displacement of the armature magnet to the left, and the influence of the magnetic forces thereon,

Fig. 8 is a top plan view of a linear embodiment of the inventive concept illustrating a pair of armature magnets in linked relationship disposed above the stator magnets,

Fig. 9 is a diametrical, elevational, sectional view of a rotary motor embodiment in accord with the invention as taken along section IX-IX of Fig.10, and

Fig. 10 is an elevational view of the rotary motor embodiment as taken along X-X of Fig.9.



DESCRIPTION OF THE PREFERRED EMBODIMENTS:

In order to better understand the theory of the inventive concept, reference is made to **Figs. 1 through 4**. In **Fig. 1** a superconductor 1 is illustrated having a positive particle flow as

represented by arrow **2**, the unpaired electrons of the ferrous conductor **1** spin at right angles to the proton flow in the conductor as represented by the spiral line and arrow **3**. In accord with the theory of the invention the spinning of the ferrous unpaired electrons results from the atomic structure of ferrous materials and this spinning atomic particle is believed to be opposite in charge and located at right angles to the moving electrons. It is assumed to be very small in size capable of penetrating other elements and their compounds unless they have unpaired electrons which capture these particles as they endeavour to pass through.

The lack of electrical resistance of conductors at a critical superconductor state has long been recognised, and superconductors have been utilised to produce very high magnetic flux density electromagnets. **Fig.2** represents a cross section of a critical superconductor and the electron spins are indicated by the arrows **3**. A permanent magnet may be considered a superconductor as the electron flow therein does not cease, and is without resistance, and unpaired electric spinning particles exist which, in the practice of the invention, are utilised to produce motor force. **Fig.3** illustrates a horseshoe shaped permanent magnet at **4** and the magnetic flux through it is indicated by arrows **5**, the magnetic flow being from the south pole to the north pole and through the magnetic material. The accumulated electron spins occurring about the diameter of the magnet **5** are represented at **6** in **Fig.4**, and the spinning electron particles spin at right angles in the iron as the flux travels through the magnet material.

By utilising the electron spinning theory of ferrous material electrons, it is possible with the proper ferromagnetic materials, geometry and magnetic concentration to utilise the spinning electrons to produce a motive force in a continuous direction, thereby resulting in a motor capable of doing work.

It is appreciated that the embodiments of motors utilising the concepts of the invention may take many forms, and in the illustrated forms the basic relationships of components are illustrated in order to disclose the inventive concepts and principles. The relationships of the plurality of magnets defining the stator **10** are best appreciated from **Figs. 5 through 8**. The stator magnets **12** are preferably of a rectangular configuration, **Fig.8**, and so magnetised that the poles exist at the large surfaces of the magnets, as will be appreciated from the N (North) and S (South) designations. The stator magnets include side edges **14** and **16** and end edges **18**. The stator magnets are mounted upon a supporting plate **20**, which is preferably of a metal having a high permeability to magnetic fields and magnetic flux such as that available under the trademark Netic CoNetic sold by Perfection Mica Company of Chicago, Illinois. Thus, the plate **20** will be disposed toward the south pole of the stator magnets **12**, and preferably in direct engagement therewith, although a bonding material may be interposed between the magnets and the plate in order to accurately locate and fix the magnets on the plate, and position the stator magnets with respect to each other.

Preferably, the spacing between the stator magnets **12** slightly differs between adjacent stator magnets as such a variation in spacing varies the forces being imposed upon the armature magnet at its ends, at any given time, and thus results in a smoother movement of the armature magnet relative to the stator magnets. Thus, the stator magnets so positioned relative to each other define a track **22** having a longitudinal direction left to right as viewed in **Figs. 5 through 8**.

In **Figs. 5 through 7** only a single armature magnet **24** is disclosed, while in **Fig.8** a pair of armature magnets are shown. For purposes of understanding the concepts of the invention the description herein will be limited to the use of single armature magnet as shown in **Figs. 5 through 7**.

The armature magnet is of an elongated configuration wherein the length extends from left to right, **Fig.5**, and may be of a rectangular transverse cross-sectional shape. For magnetic field concentrating and orientation purposes the magnet **24** is formed in an arcuate bowed configuration as defined by concave surfaces **26** and convex surfaces **28**, and the poles are

defined at the ends of the magnet as will be appreciated from **Fig.5**. For further magnetic field concentrating purposes the ends of the armature magnet are shaped by bevelled surfaces **30** to minimise the cross sectional area at the magnet ends **32**, and the magnetic flux existing between the poles of the armature magnet are as indicated by the light dotted lines. In like manner the magnetic fields of **6** the stator magnets **12** are indicated by the light dotted lines.

The armature magnet **24** is maintained in a spaced relationship above the stator track **22**. This spacing may be accomplished by mounting the armature magnet upon a slide, guide or track located above the stator magnets, or the armature magnet could be mounted upon a wheeled vehicle carriage or slide supported upon a non-magnetic surface or guideway disposed between the stator magnets and the armature magnet. To clarify the illustration, the means for supporting the armature magnet **24** is not illustrated and such means form no part of invention, and it is to be understood that the means supporting the armature magnet prevents the armature magnet from moving away from the stator magnets, or moving closer thereto, but permits free movement of the armature magnet to the left or right in a direction parallel to the track **22** defined by the stator magnets.

It will be noted that the length of the armature magnet **24** is slightly greater than the width of two of the stator magnets **12** and the spacing between them. The magnetic forces acting upon the armature magnet when in the position of **Fig.5** will be repulsion forces **34** due to the proximity of like polarity forces and attraction forces at **36** because of the opposite polarity of the south pole of the armature magnet, and the north pole field of the sector magnets. The relative strength of this force is represented by the thickness of the force line.

The resultant of the force vectors imposed upon the armature magnet as shown in **Fig.5** produce a primary force vector **38** toward the left, **Fig.5**, displacing the armature magnet **24** toward the left. In **Fig.6** the magnetic forces acting upon the armature magnet are represented by the same reference numerals as in **Fig.5**. While the forces **34** constitute repulsion forces tending to move the north pole of the armature magnet away from the stator magnets, the attraction forces imposed upon the south pole of the armature magnet and some of the repulsion forces, tend to move the armature magnet further to the left, and as the resultant force **38** continues to be toward the left the armature magnet continues to be forced to the left. **Fig.7** represents further displacement of the armature magnet **24** to the left with respect to the position of **Fig.6**, and the magnetic forces acting thereon are represented by the same reference numerals as in **Fig.5** and **Fig.6**, and the stator magnet will continue to move to the left, and such movement continues the length of the track **22** defined by the stator magnets **12**.

Upon the armature magnet being reversed such that the north pole is positioned at the right as viewed in **Fig.5**, and the south pole is positioned at the left, the direction of movement of the armature magnet relative to the stator magnets is toward the right, and the theory of movement is identical to that described above.

In **Fig.8** a plurality of armature magnets **40** and **42** are illustrated which are connected by links **44**. The armature magnets are of a shape and configuration identical to that of the embodiment of **Fig.5**, but the magnets are staggered with respect to each other in the direction of magnet movement, i.e., the direction of the track **22** defined by the stator magnets **12**. By so staggering a plurality of armature magnets a smoother movement of the interconnected armature magnets is produced as compared when using a single armature magnet as there is variation in the forces acting upon each armature magnet as it moves above the track **22** due to the change in magnetic forces imposed thereon. The use of several armature magnets tends to "smooth out" the application of forces imposed upon linked armature magnets, resulting in a smoother movement of the armature magnet assembly. Of course, any number of armature magnets may be interconnected, limited only by the width of the stator magnet track **22**.

In **Fig.9** and **Fig.10** a rotary embodiment embracing the inventive concepts is illustrated. In this embodiment the principle of operation is identical to that described above, but the orientation of the stator and armature magnets is such that rotation of the armature magnets is produced about an axis, rather than a linear movement being achieved.

In **Fig.9** and **Fig.10** a base is represented at **46** serving as a support for a stator member **48**. The stator member **48** is made of a non-magnetic material, such as synthetic plastic, aluminium, or the like. The stator includes a cylindrical surface **50** having an axis, and a threaded bore **52** is concentrically defined in the stator. The stator includes an annular groove **54** receiving an annular sleeve **56** of high magnetic field permeability material such as Netic Co-Netic and a plurality of stator magnets **58** are affixed upon the sleeve **56** in spaced circumferential relationship as will be apparent in **Fig.10**. Preferably, the stator magnets **58** are formed with converging radial sides as to be of a wedge configuration having a curved inner surface engaging sleeve **56**, and a convex pole surface **60**.

The armature **62**, in the illustrated embodiment, is of a dished configuration having a radial web portion, and an axially extending portion **64**. The armature **62** is formed of a non-magnetic material, and an annular belt receiving groove **66** is defined therein for receiving a belt for transmitting power from the armature to a generator, or other power consuming device. Three armature magnets **68** are mounted on the armature portion **64**, and such magnets are of a configuration similar to the armature magnet configuration of **Figs. 5 through 7**.

The magnets **68** are staggered with respect to each other in a circumferential direction wherein the magnets are not placed exactly 120 degrees apart but instead, a slight angular staggering of the armature magnets is desirable to "smooth out" the magnetic forces being imposed upon the armature as a result of the magnetic forces being simultaneously imposed upon each of the armature magnets. The staggering of the armature magnets **68** in a circumferential direction produces the same effect as the staggering of the armature magnets **40** and **42** as shown in **Fig.8**.

The armature **62** is mounted upon a threaded shaft **70** by anti-friction bearings **72**, and the shaft **70** is threaded into the stator threaded bore **52**, and may be rotated by the knob **74**. In this manner rotation of the knob **74**, and shaft **70**, axially displaces the armature **62** with respect to the stator magnets **58**, and such axial displacement will vary the magnitude of the magnetic forces imposed upon the armature magnets **68** by the stator magnets thereby controlling the speed of rotation of the armature. As will be noted from **Figs. 4 to 7, 9 and 10**, an air gap exists between the armature magnets and the stator magnets and the dimension of this spacing, effects the magnitude of the forces imposed upon the armature magnet or magnets. If the distance between the armature magnets and the stator magnets is reduced the forces imposed upon the armature magnets by the stator magnets are increased, and the resultant force **8** vector tending to displace the armature magnets in their path of movement increases. However, the decreasing of the spacing between the armature and stator magnets creates a "pulsation" in the movement of the armature magnets which is objectionable, but can be, to some extent, minimised by using a plurality of armature magnets. Increasing the distance between the armature and stator magnets reduces the pulsation tendency of the armature magnet, but also reduces the magnitude of the magnetic forces imposed upon the armature magnets. Thus, the most effective spacing between the armature and stator magnets is that spacing which produces the maximum force vector in the direction of armature magnet movement, with a minimum creation of objectionable pulsation.

In the disclosed embodiments the high permeability plate **20** and sleeve **56** are disclosed for concentrating the magnetic field of the stator magnets, and the armature magnets are bowed and have shaped ends for magnetic field concentration purposes. While such magnetic field concentration means result in higher forces imposed upon the armature magnets for given magnet intensities, it is not intended that the inventive concepts be limited to the use of such magnetic field concentrating means.

As will be appreciated from the above description of the invention, the movement of the armature magnet or magnets results from the described relationship of components. The length of the armature magnets as related to the width of the stator magnets and spacing between them, the dimension of the air gap and the configuration of the magnetic field, combined, produce the desired result and motion. The inventive concepts may be practised even though these relationships may be varied within limits not yet defined and the invention is intended to encompass all dimensional relationships which achieve the desired goal of armature movement. By way of example, with respect to **Figs. to 7**, the following dimensions were used in an operating prototype:

The length of armature magnet **24** is 3.125", the stator magnets **12** are 1" wide, .25" thick and 4" long and grain oriented. The air gap between the poles of the armature magnet and the stator magnets is approximately 1.5" and the spacing between the stator magnets is approximately .5" inch.

In effect, the stator magnets define a magnetic field track of a single polarity transversely interrupted at spaced locations by the magnetic fields produced by the lines of force existing between the poles of the stator magnets and the unidirectional force exerted on the armature magnet is a result of the repulsion and attraction forces existing as the armature magnet traverses this magnetic field track.

It is to be understood that the inventive concept embraces an arrangement wherein the armature magnet component is stationary and the stator assembly is supported for movement and constitutes the moving component, and other variations of the inventive concept will be apparent to those skilled in the art without departing from the scope thereof. As used herein the term "track" is intended to include both linear and circular arrangements of the static magnets, and the "direction" or "length" of the track is that direction parallel or concentric to the intended direction of armature magnet movement.

I claim:

1. A permanent magnet motor comprising, in combination, a stator track defining a track direction and having first and second sides and composed of a plurality of track permanent magnets each having first and second poles of opposite polarity, said magnets being disposed in side-by-side relationship having a spacing between adjacent magnets and like poles defining said track sides, an elongated armature permanent magnet located on one of said track sides for relative movement thereto and in spaced relationship to said track side wherein an air gap exists between said armature magnet and said track magnets, said armature magnet having first and second poles of opposite polarity located at the opposite ends of said armature magnet deeming the length thereof, the length of said armature magnet being disposed in a direction in general alignment with the direction of said track, the spacing of said armature magnet poles from said track associated side and the length of said armature magnet as related to the width and spacing of said track magnets in the direction of said track being such as to impose a continuous force on said armature magnet in said general direction of said track.

2. In a permanent magnet motor as in claim 1 wherein the spacing between said poles of said armature and the adjacent stator track side are substantially equal.

3. In a permanent magnet motor as in claim 1 wherein the spacing between adjacent track magnets varies.

4. In a permanent magnet motor as in claim 1 wherein a plurality of armature magnets are disposed on a common side of said stator track, said armature magnets being mechanically interconnected.

5. In a permanent magnet motor as in claim 4 wherein said armature magnets are staggered with respect to each other in the direction of said track.

6. In a permanent magnet motor as in claim 1 wherein magnetic field concentrating means are associated with said track magnets.

7. In a permanent magnet motor as in claim 6 wherein said field concentrating means comprises a sheet of magnetic material of high field permeability engaging side and pole of said track opposite to that side and pole disposed toward said armature magnet.

8. In a permanent magnet as in claim 1 wherein said armature magnet is of an arcuate configuration in its longitudinal direction bowed toward said track, said armature magnet having ends shaped to concentrate the magnetic field at said ends.

9. In a permanent magnet motor as in claim 1 wherein said stator track is of a generally linear configuration, and means supporting said armature magnet relative to said track for generally linear movement of said armature magnet.

10. In a permanent magnet motor as in claim 1 wherein said stator track magnets define a circle having an axis, an armature rotatably mounted with respect to said track and concentric and coaxial thereto, said armature magnet being mounted upon said armature.

11. In a permanent magnet motor as in claim 10, means axially adjusting said armature relative to said track whereby the axial relationship of said armature magnet and said stator magnets may be varied to adjust the rate of rotation of said armature.

12. In a permanent magnet motor as in claim 10 wherein a plurality of armature magnets are mounted on said armature.

13. In a permanent magnet motor as in claim 12 wherein said armature magnets are circumferentially non-uniformly spaced on said armature.

14. A permanent magnet motor comprising, in combination, a stator comprising a plurality of circumferentially spaced stator permanent magnets having poles of opposite polarity, said magnets being arranged to substantially define a circle having an axis, the poles of said magnets facing in a radial direction with respect to said axis and poles of the same polarity facing away from said axis and the poles of opposite polarity facing toward said axis, an armature mounted for rotation about said axis and disposed adjacent said stator, at least one armature permanent magnet having poles of opposite polarity mounted on said armature and in radial spaced relationship to said circle of stator magnets, said armature magnet poles extending in the circumferential direction of armature rotation, the spacing of said armature magnet poles from said stator magnets and the circumferential length of said armature magnet and the spacing of said stator magnets being such as to impose a continuing circumferential force on said armature magnet to rotate said armature.

15. In a permanent magnet motor as in claim 14 wherein a plurality of armature magnets are mounted upon said armature.

16. In a permanent magnet motor as in claim 14 wherein said armature magnets are asymmetrically circumferentially spaced on said armature.

17. In a permanent magnet motor as in claim 14 wherein the poles of said armature magnet are shaped to concentrate the magnetic field thereof.

18. In a permanent magnet motor as in claim 14, magnetic field concentrating means associated with said stator magnets concentrating the magnetic fields thereof at the spacings between adjacent stator magnets.

19. In a permanent magnet motor as in claim 18 wherein said magnet field concentrating means comprises an annular ring of high magnetic field permeability material concentric with said axis and in substantial engagement with poles of like polarity of said stator magnets.

20. In a permanent magnet motor as in claim 14 wherein said armature magnet is of an arcuate bowed configuration in the direction of said poles thereof defining a concave side and a convex side, said concave side being disposed toward said axis, and said poles of said armature magnet being shaped to concentrate the magnetic field between said poles thereof.

21. In a permanent magnet motor as in claim 14, means for axially displacing said stator and armature relative to each other to adjust the axial alignment of said stator and armature magnets.

22. The method of producing a unidirectional motive force by permanent magnets using a plurality of spaced stator permanent magnets having opposite polarity poles defining a track having a predetermined direction, and an armature magnet having a length defined by poles of opposite polarity movably mounted for movement relative to the track in the direction thereof, and of a predetermined length determined by the width and dimensions of said stator magnets comprising forming a magnetic field track by said stator magnets having a magnetic field of common polarity interrupted at spaced locations in a direction transverse to the direction of said magnetic field track by magnetic fields created by magnetic lines of force existing between the poles of the stator magnets and positioning the armature magnet in spaced relation to said magnetic field track longitudinally related to the direction of the magnetic field track such a distance that the repulsion and attraction forces imposed on the armature magnet by said magnetic field track imposes a continuing unidirectional force on the armature magnet in the direction of the magnetic field track.

23. The method of producing a unidirectional motive force as in claim 22 including concentrating the magnetic fields created by magnetic lines of force between the poles of the stator magnets.

24. The method of producing a unidirectional motive force as in claim 22 including concentrating the magnetic field existing between the poles of the armature magnet.

25. The method of producing a unidirectional motive force as in claim 22 including concentrating the magnetic fields created by magnetic lines of force between the poles of the stator magnets and concentrating the magnetic field existing between the poles of the armature magnet.

26. The method of producing a motive force by permanent magnets wherein the unpaired electron spinning particles existing within a permanent magnet are utilised for producing a motive force comprising forming a stator magnetic field track by means of at least one permanent magnet, producing an armature magnetic field by means of a permanent magnet and shaping and locating said magnetic fields in such a manner as to produce relative continuous unidirectional motion between said stator and armature field producing magnets.

27. The method of producing a motive force by permanent magnets as in claim 26 wherein said stator magnetic field is substantially of a single polarity.

28. The method of producing a motive force by permanent magnets as in claim 26 including concentrating the magnetic field of said stator field track and armature magnetic field.