

THE GRAVITY CONTROL PROJECT

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FOREWORD

The prototype that I have named “**The Propellant Less Reaction Propulsion Mechanism**” is a special space machine with attributes which are novel:

- “*Propellant less*” because it does not use propellants, but rather use internal collision through hydraulics;
- “*Reaction*” because it utilizes the action/reaction principle without violating the laws of conservation of momentum;
- “*Propulsion*” because it is used to create forward motion;
- “*Mechanism*” because it can be used for different purposes (airplane, space drive or gravity manipulation maneuver.)

This prototype is developed as a practical step towards the realization of this craft. Hence, it is very basic and meant to bring out the initial idea. I would like to note that good ideas alone are not enough. Even the best talent needs the most fertile ground to groom and nurture them.

In developing this prototype, I have encountered challenges which are all related to lack of funding. I lacked the technical support desirable to produce a quality product. As a result, I lacked appropriate components. All the components that I have used have been improvised. For example, in developing a hydraulic system, I improvised with cattle disposable syringes for hydraulic pumps. Therefore, I could not make appropriate measurements of quantities. I also used knives to create a very desirable effect in developing the thrust of the craft.

Given the great propensity to produce good work, this work requires fulltime vocation. However, private scientific research demands strict standards to be adhered to so as to acquire the respect from the mainstream. At the same time private research does not put dinner on the table of the private researcher. These are major limitations as they compromise the accuracy and quality of work. Yet, with better resources, I would produce a better work. You can be part of the revolution by advocating for this work to continue.

ABOUT THE TECHNOLOGY

The technology should be looked at two scales: the SMALL Scale and the GRAND Scale.

1 - On The Small Scale

On the Small Scale, the machine will fly like the usual airplane, but using internal collision without reacting with external air. It can be made to allow great flexibility such as vertical takeoff and landing and gravity manipulations. It does not depend on the surroundings to gain thrust.

When this special spaceship is finally accomplished, it will solve most of the problems faced by land locked countries as it can be developed with abilities to carry very large cargo. It will also allow greater maneuverability and gravity manipulations so as to allow vehicles like cars to have capacity to take off and fly when necessary.

2 - On The Grand Scale

On the Grand Scale, this invention embraces the general relativity theory as according to Albert Einstein.

In this project and research, I present an invention with a new propulsion breakthrough that can create a space drive capable of warping space. It converts internal collisions - perfectly inelastic collision - and uses a special mechanism meant to mitigate the conservation of momentum laws into thrust.

This technology has innovations which make it the eventual interstellar spaceship within available resources and these are:

- Ability to gain thrust without reacting to an outside medium such as airplanes use air or rockets use propellants,
- Propulsion that circumvents existing speed limits (superluminal travel),
- Propulsion that can be harnessed on conventional methods of energy production,
- Propulsion that is controlled.

3 - Concepts Behind the Technology

3.1. Space Warp

This technology is based on the idea of fixed background position - equivalent to indefinite levitation - which can be created at any point in space to concentrate high levels of velocities in limited spaces. This creates local distortions in space resulting in a space warp.

3.2. Conservation of Momentum

According to the research that I have carried out, I have observed that the easiest way to superluminal travel is the mastery of the law of conservation of momentum. This is based on the fact that this invention is capable to mitigate the law of conservation of momentum. This invention is about using a special mechanism, which can allow onboard (internal) collisions to create thrust, while at the same time taking care of the law of conservation of momentum.

This spaceship can conserve momentum onboard through internal collisions, thus it does not need external variables to conserve momentum. It is a reaction drive, though it does not interact with the external environment. It is a reaction drive because it is premised on the principles of action and reaction. This means it needs no propellants to interact with the surrounding environment such as air or other fields like electromagnetism to conserve momentum, but instead it creates onboard collisions; thus fulfilling the principles of action and reaction. It utilizes conventional methods of energy production.

3.3. Time and Space

When it comes to superluminal travel, this invention has a special capability to create indefinite levitation. This is because it does not react to an external environment but rather reacts on space. It is able to stand (while flying) in a relative position in space without dependence on any other variable apart from time. Therefore, in this mechanism, we have two variables to manage. These are time and space (the position).

This suggests that, on successive propulsions, when the time variable is well managed, this mechanism is able to create indefinite levitation. Today we have automated machines which are capable of making several revolutions in very limited time. Therefore, the time problem is not a challenge.

The challenge is to create a medium that does not interact with the external environment and thus can assume a relative position. This invention presents an open door to superluminal travel because it figures out a relatively fixed position in space. This fixed position in space then enables the activity of pushing through space and creating a hole in space.

It mitigates the distance problem, thus enabling us to make shortcuts in space arriving at far off distances in limited time. Since physics defines work (energy) as the product of force acting over distance, no work is performed if there is no change in distance. Therefore, the fixed position - indefinite levitation - is a product of general relativity. In the context of general relativity, this concept is acceptable and the spaceship vanishes from human sight going to far off places; thus making shortcuts in space-time.

The technology discussed here is based on the scientifically proven theory of general relativity which allows such technology to be developed on a viable scale.

3.4. Indefinite Levitation

The idea here is to create a state of indefinite levitation in the form of a fixed background position. Levitation means hovering with no change in height. This requires a technology which can allow the taking control of a specific position in space - a fixed and relative background position - and allow more power cycles to be loaded on top of each other in limited spaces. This process would allow the squeezing of space and thus allows superluminal travel through space-time. General relativity assumes space and time are all mixed up together, which means space-time is a fabric that can be warped and organized, twisted or collapsed.

3.5. Analogy

To get a mental picture of my ideas, take a few minutes and make a visualization of the following analogy. To understand how indefinite levitation coupled with more power cycles to be loaded on top of each other in limited spaces works, take the simple analogy below.

Suppose I was throwing a spear and after I have thrown it, but before it escapes my grip, I am able to throw it again at that point or a few steps from where I am standing. Suppose I can do that over and over again. This would allow the concentration of high levels of velocities in very limited spaces.

This technology allows a spaceship to gain thrust without interacting with an external medium. Therefore relating to the speed of this spaceship, you would mean the time it would take to throw the spear again over a given relative position. Indefinite levitation would occur if you are able to throw the spear fast enough in a fixed position over and over. Therefore, the best equation to find out how fast you are going would be the time it takes to throw the spear again over a relative position.

In special relativity, we measure speed as time over distance. However, in general relativity space is compressed and distance does not count. Special relativity does not allow superluminal travel (travel faster than light travel); yet general relativity theory accepts it.

3.6. Science Fiction!

Ideas like this one are often depicted in science fiction movies like Star Wars. Science fiction has a predictive role on technological innovations to come in the future. Today so many technologies which are currently viable were once predicted in fictional legends and literature. Just imagine, legends like The Tragic Story of Icarus, the Son of Daedalus of ancient Greece could serve as precursors of present day mastery of the aerospace.

Consider these historical facts. Before human beings were able to make flying machines, it was generally believed that air flight was impossible. Then, the Montgolfier Brothers made hot air balloons. At that time lighter than air flight was accepted as a possibility. Balloons and airships are lighter-than-air (LTA), and fly because they are buoyant, which

is to say that the total weight of the aircraft is less than the weight of the air it displaces. Yet, it was then believed that heavy than air flight was impossible. There was effort from many inventors at the time. The Wright Brothers (Orville and Wilbur) made a historic breakthrough. From that time, man has made unprecedented progress in flight, even including space travel.

Today, in contrast, it is widely believed that it is impossible to have a space craft which can fly without analog (a signal) to its external environment. All the big scientists are resigned to this fate. The big argument is that it breaks the law of conservation of momentum. In simple terms, in this context, it is presumed that for any thrust to be generated by a spaceship there must be analog¹ which is external to the spaceship. Otherwise it violates the law of conservation of momentum.

According to Albert Einstein, it is theoretically acceptable under general relativity to have superluminal travel and space warps. Also, the Mexican theoretical physicist Miguel Alcubierre has demonstrated that within the framework of general relativity, it is in principle possible to warp space-time in a small bubble-like region, in such a way that the bubble may attain arbitrarily large velocities.

Therefore, science accepts that time travel is a possibility, but apparently no one has figured out how to make it work.

3.7. Time Travel and Anti-matter

Many ideas have been generated over how to achieve this amazing feat which would enable mankind the mastery of his universe. Various models of space drives based on space theory and knowledge have been envisaged. All current models of spaceships conserve momentum by reaction to external environment. The tendency to depend on an external medium such as solar sails, propellants or interactions with fields like magnetism, I observe, is the biggest weakness to achieve superluminal drive.

Such models present many challenges and the biggest being that the external medium becomes the parameter of how fast you can go as you have to cover the whole stretch (distance) before you arrive. The external medium relates to distance.

By these means one cannot achieve superluminal travel. However, general relativity allows shortcuts by compressing space-time. This means that distance can be mitigated. General relativity allows the mitigation of distance. Therefore, the best way to mitigate distance is to have no reference to any external phenomena apart from space itself.

The most pronounced theory which allows the possibility of creating a superluminal space drive today is by the use of anti-matter. Anti-matter is a fundamental particle of regular matter with its electrical charge reversed. It naturally violates the law of

¹ A signal or a measured response to changes in physical phenomena, such as sound, air, light, temperature or pressure.

conservation of momentum. It is an exotic material which is not available in any significant quantities to create a viable space drive. It is believed, if it can be discovered in abundance, that superluminal travel would be a possibility. But in the foreseeable future, it is unlikely to be discovered.

The challenge of space travel is so immense that the technology we have today is rendered obsolete for big voyages even to our neighboring star systems. Space is so immense that its mastery requires a superluminal drive - faster than light travel.

The paramount challenges to interstellar travel are the vastness of space and the energy requirements to take us there. However, there are minor ones, like radiation, collision with space objects, physiological and psychological needs for manned spaceflight travel, among others.

Therefore, according to current scientific knowledge, all theory on space drive is hypothetical. There is no viable and practical medium through which space can be manipulated to achieve superluminal travel.

As a result, my invention comes in as the solution to the possibility of superluminal travel within available resources. The law of conservation of momentum is the single biggest obstacle to flight without interaction with the outside environment. This invention mitigates this issue and, therefore, makes it viable to have a craft that does not interact with the external environment.

4 - The Scientific Method

This technology embraces the scientific theory and scientific experiment. All the works in this technology are based on a scientifically acceptable theory, and I have carried out scientific laboratory tests to verify my research.

4.1. Thrust.

Thrust is the force which moves an aircraft through the air. Thrust is used to overcome the drag, and to overcome the weight of an airplane or a rocket. Thrust is generated by the engines of the aircraft through some kind of propulsion system.

The thrust that runs this spacecraft is based on internal collision and patent material². Mathematical substantiation of thrust is based on inelastic collision. I have measured thrust in controlled environments in laboratory experiments and I have used Lab Pro interface and Logger Pro software to analyze data. The details of this will be published in a journal.

² The effect which constitutes the invention, and which I would like to patent.

4.2. How Do Internal Collisions Work?

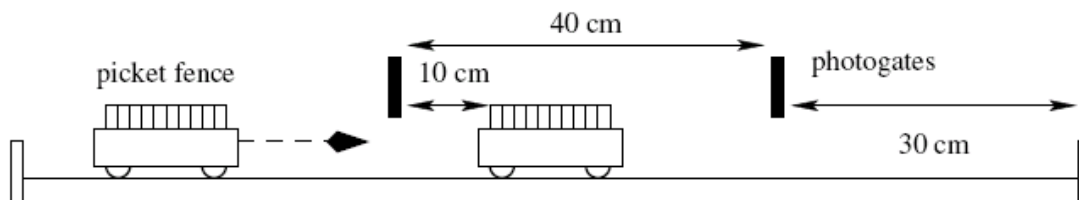
In an inelastic collision between two objects in an isolated system, kinetic energy is not conserved, but the linear momentum is conserved. The kinetic energy in inelastic collision is lost and converted into other forms of energy such as heat, light, sound or even into deformation. Most collision we observe everyday are inelastic with some loss of kinetic energy.

Therefore, in this technology, I utilize a method to convert this kinetic energy which would otherwise be lost, and I convert that energy in forward motion / thrust. The thrust is generated by an effect of suction, which constitutes the puzzle in the phenomena I am explaining.

4.3. Experiment and Mathematical Substantiation of Thrust

I have carried out laboratory experiments and I have used Lab Pro interface and Logger Pro software to analyze data.

The mathematical substantiation of thrust, I have not presented in this limited space. However, I am writing a paper which should be available after peer review.



TOOLS USED:

- ▶ Equipment
- ▶ Computer
- ▶ Lab Pro interface
- ▶ Meter track
- ▶ Photo Gates
- ▶ Balance {for measuring mass}
- ▶ Level {used to level track}
- ▶ Collision carts{magnetic}

THE END.