



Presentation of business idea firm from Science and Technology Park of Palacky University in Olomouc:

Magmot Booster – completion of development stage of commercial use of the utility model HNACÍ MODUL (drive module), UV 2005-16546 – Mgr. Georgi Ivanov

Firm was established in 2008. Its aim was schedule a commercial occupancy of utility model HNACÍ MODUL, UV 2005-16546. The firm belongs to Business Incubator of Science and Technology Park of Palacky University. Now I am looking for investors and persons interested in realization of engineering solution.

What is my idea: Technically new arrangement of permanent magnets in movable and immovable part of apparatus with positive feedback. I own Czech utility design UV 2005-16546 and simultaneously I own industrial protection in Germany, Slovakia . Apparatus uses action of force of permanent magnets magnetic fields for creating of resultant motion. This motion is able to power some devices for example generator to produce electricity.

Input initialization energy equals initialization power over time at input into the magnetic device. This energy causes progressive demagnetization of permanent magnets (The demagnetization is via a feedback arrangement of permanent magnets). Output power is generated at output of magnetic device. It equals output power over time. Energy conservation law must be accepted, consequently total efficiency is always lower than "1". Nevertheless transformation coefficient, it means ratio of output power and initialization power is able to take values greater than "1".

In other words the basic idea is in new technical application of permanent magnets as a source of technical exploitable energy. Important advantage is possibility to regenerate the permanent magnets again after exhaustion. It means the magnets are renewable energy source which are independent on climatic conditions.

Simultaneously this source is incombustible and it doesn't produce any radioactive or chemical waste. So it is ecological clean source of energy. Long discharge period is another advantage of this one.

The device called Magmot Booster can be used as a propulsion engine for source of electrical power or propulsion engines.

How far is this task? I hold computer model (technical model) simulating permanent magnets arrangement. The programme was created at TU–VŠB Ostrava according to my requirements. The first approximation demonstrated practicability of this idea into use (work experience). Now I'm before build (construct) the first prototype for device testing to check its properties and parameters just in practice.



At present I keep several long-term contracts with other universities. The contracts promise assistance which is necessary for further testing, prototype development and production preparation.

In May 2010 the project was sent to project ALFA in Technological agency whose component part is support Magmot Booster device.

What markets exist for application of my idea? The magnetic arrangement may be used in a long time of current technical devices. It is able to improve efficiency of photovoltaic power stations or can be suitable resolution for hybrid drive. There are many possibilities of application and therefore is difficult to determine the size of the market. (Many possibilities of application exist and therefore it is difficult to determine the size of the market.) It is difficult to determine the size of the market. But there are huge possibilities of application so we expect great interest after market introduction.

My advantages in the market: Up to now haven't been any producer and dealer of this unique technology. Czech Republic is the first state where the technology was openly issued and where this technology is patented.

My advantages against competition: The technology is protected by utility model not only in Czech Republic. The technology hasn't been used in the whole world. I work on other versions of the technology and prepare for new patents.

The most important properties of this technology resolution:

- it doesn't produce harmful gases
- it doesn't produce radioactive waste
- the technology doesn't depend on natural conditions and influences
- the technology involves renewable energy contents
- the contents are easy to store or transport
- the technology is able to connect through existing power generation equipment

How I intend to raise money for my idea:

- to sell licences
- to sell particular application

How much money I need for completion of development?

My estimation is at least 3 000 000 CZK.

- 800 000 CZK for production and testing two pieces of prototypes
- 900 000 CZK for production one sample for customer demonstration
- 600 000 CZK for the first type certification, marketing, promotion, production planning



- 600 000 CZK for the second type certification, marketing, promotion, production planning

Notice: After prototype verification next samples will be cheaper.

Who will be the customers: Producers of photovoltaic devices, diesel or petrol generators, cogeneration powers, hybrid engines and congeries (aggregates). The device must be interesting for producers (manufacturers) of power electrics, stand-by power supplies, special-purpose generators etc.

How much money I need to raise: The whole amount. I have paid everything up to now on own funds.

What I offer the investor: Significant share in the company.

Management and staff: At present the firm has only one member, this is me. It will be necessary to hire for staff for testing, development and production planning. Cooperation with the staff of universities mentioned earlier will also be needed. People from Science and Technology Park can be utilized for marketing and promotion. Production equipment is planned primarily to areas with high unemployment.

What will be the profit for the investors? Investment risk is substantial. If successful, however, our estimate of profit is in millions of euros.

Risk factors in marketing: Risk factors are energy companies and inadequate legislation. The problem can be solved agreements with energy companies and the relevant ministries.

Combined photovoltaic systems for family houses sales prediction: We expect sale about a hundred pieces a year in Czech Republic, one thousand pieces a year in economically advanced countries and approximately ten thousand pieces a year throughout the European Union.

Combined generators sales prediction: We expect a similar number of sold pieces. It means about ten thousand pieces a year throughout the European Union. High sale of our device with combined hybrid drives is expected too.