AIP - Battery project

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Rights to a new type of rechargeable electromagnetic induction battery.

- KATA-ANA INVEST AB has acquired all development and trading rights for a completely new type of battery.
- The battery will be made of aluminum and is theoretically estimated to have 33 times better capacity than currently available lithium batteries.
- The development goal is to reach 20 times better capacity.
- It is mainly used in electric vehicles, but it works equally well in all other applications that require battery power.

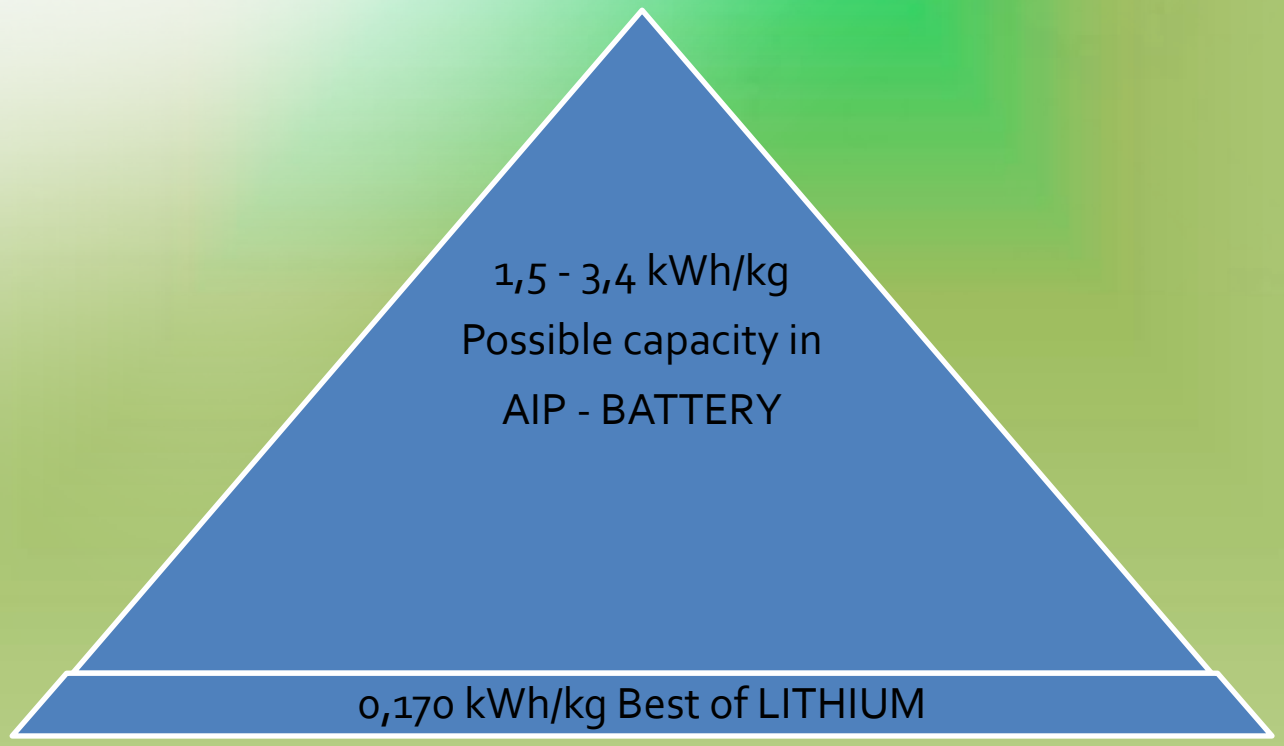
Potential

- The project is just in time now.
- With the best result of the project, the market can be global and huge.
- The market is worth more than €30 billion, maybe much more.
- The market is growing at least 20 percent per year.
- The growth potential for the electric car market will be very high.

Background

- Secondary battery development has been going on for 35 years
- The inventor is now 83 years old (date of birth: December 21, 1939).
- He originally worked with stainless metals.
- Interested in electric cars.
- He wanted to research and sold a successful business.
- He produced an idea for a solution that he eventually developed.
- His goal was to find the best solution for generating energy and charging aluminum batteries
- In the end, he found that the most effective solution was consistent.
- He now had complete plans to build two complete systems.
- He used these to check the reduction of aluminum and perform detailed measurements on battery performance.
- The goal was to produce a prototype corresponding to today's 12 V car starter battery and 80 kWh battery for electric cars with an electric control system.
- The development work over the past 20 years has developed as financial resources have allowed.
- KATA-ANA INVEST AB has acquired all trading rights for the invention.
- The prerequisite for the acquisition is development and construction of prototypes, license sales, followed by production and sales.

Relative capacity for innovation, new AIP battery, compared to lithium battery.



Battery model: Pyramid

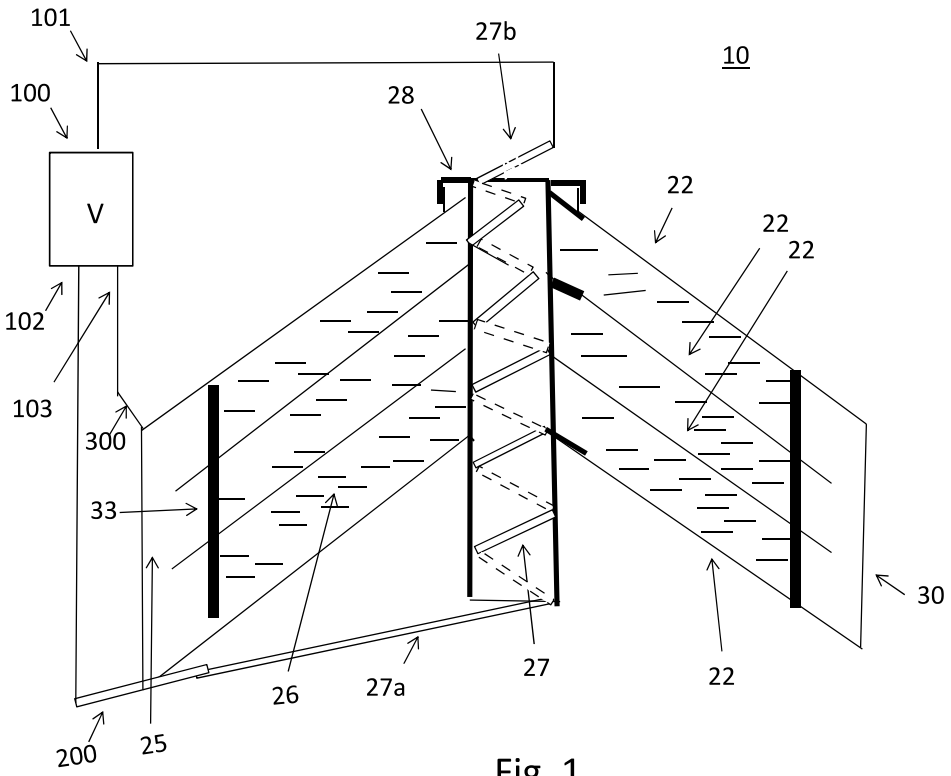


Fig. 1

Function

- Rechargeable aluminum battery - can store, drop, and take in a lot of energy.
- Power cord - needed for proper operation.
- Organic electrolyte and its chemical substances are used with a special method, that is necessary to achieve good function and results.
- The battery's internal electrical system is required for good operation and charging.
- The battery should be used in a special way - which is necessary for good and efficient operation

Questions and answers

The following information about technology, minimum energy in all parameters and economics is based on calculations, subtests and represents goals.

• Rated voltage	approx. 7.5 V and higher
• Charging voltage	approx. 10.0-15.0 V
• Induction	approx. 10.0-360 V.
• Voltage when the battery is kept	approx. 0.5 V, or 0.0 V. discharged energy
• Current electricity	507-1000 Ah / 2kg / dm3
• Power window	No complete information available
• Capacity alternative, kWh / dm3,	1.5- 3.4 kWh / kg
• What does the energy store in the cell?	Aluminum loses energy and molecules gain energy.(How this is done and how it works is a secret. We will apply for this in a patent).
• How it works in general.	It's a secret and we can not reveal it.
• What does the chemical formula look like?	Secret until the patent is granted.
• How many cycles? Many .	More than 3,000 to 10,000 cycles.
• Can the battery recharge?	Charging is only possible when + is the positive pole and - is negative, according to standard in battery technology.
• Which gases are released from the cell	None during download and unloading.
• Is it a closed cell?	Yes.
• Why build aluminum?	It can store a lot of energy, the supply is plentiful, cheap and has a relatively small weight.

- What is listed below about technology, energy and economics is based on calculations and there are set goals.

Comparison of competition

- Lithium-ion batteries are the best available.
- There are no rechargeable aluminum batteries on the market.
- But recently, Cornell University in New York, USA, has made progress in researching rechargeable aluminum batteries.
- They have the same energy content as lithium-ion batteries.
- Our batteries are estimated to contain twenty times more energy than Lithium-ion batteries.
- We do not know of any other successful aluminum battery studies other than Cornell University.

Direct patent application.
To do list of needs

- First patent application filed in the United States 12/6/2020, no. 16/899, 671. PARTA 1 US.
- Other patent applications se slide 12.
- Prototype unit to be built.
- Control and reinforcement of aluminum reduction has been carried out.
- Battery performance measurements must be supplemented with a prototype.
- Examination of production processes.

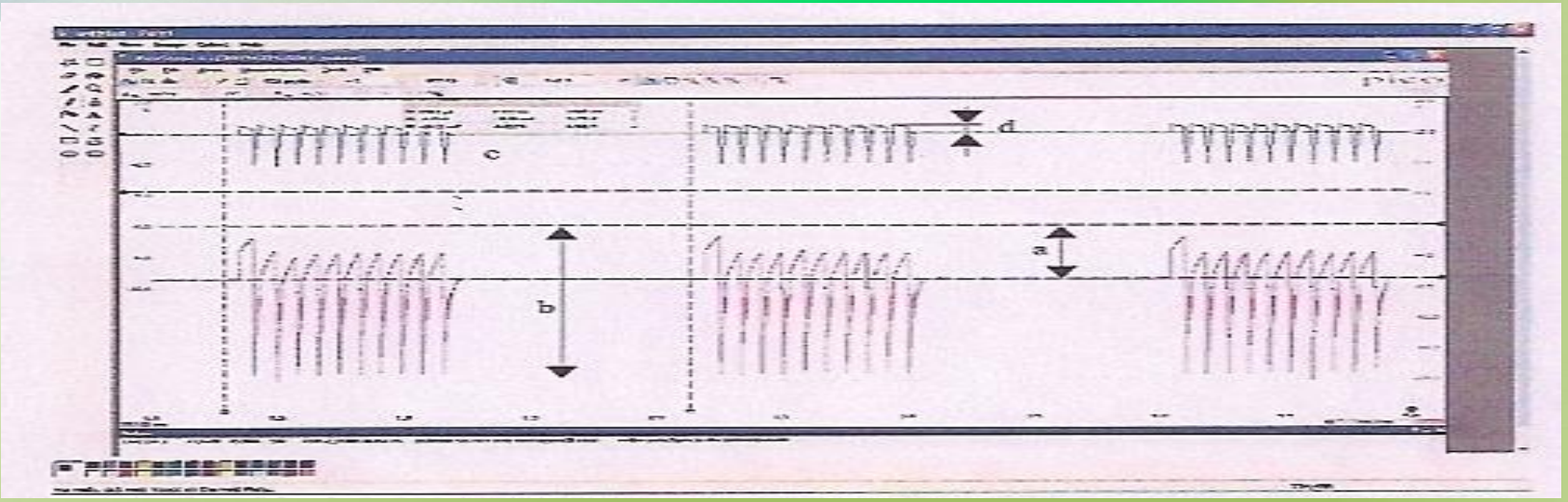
Practical needs

- Clean room about 215 square meters.
- Workshop / changing room about 540 square meters.
- Office (already acquired) about 108 square meters.
- Various workbenches and tools must be procured, or an external operator can be hired.
- Mixtures and more are purchased from external suppliers.
- Board and administration (already available).
- The CEO / project manager must be appointed.

Patent and PCT applications and descriptions of functionalities

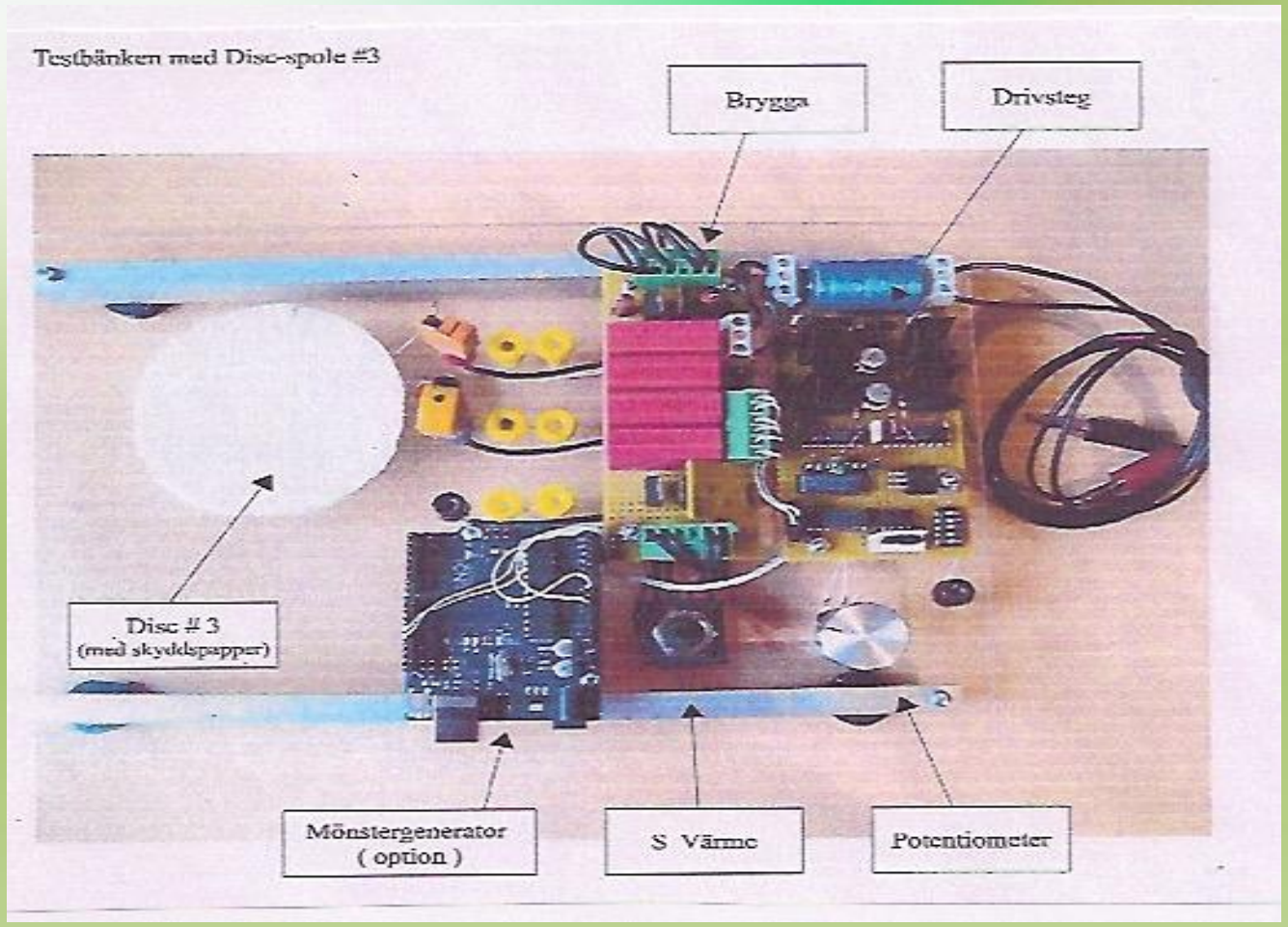
- Patent application filed in the United States 12/6/2020, no. 16/899, 671. PARTA 1 US.
- Patent Application Publication US 16.12. US 2021/ 0391592 A1
- Global patent applications in Finland filed 11/06/2021 PCT / FI2021 / 050437
- In 2022 and 2023, patent applications have been submitted for the countries of Europe, Canada, Japan, and Australia.
- The inventions include Aluminum electrode, which is not passive and does not become passive during operation, which can both release and receive aluminum ions.
- Inductive electrical system and capacitor unit that keeps the battery in active operation in all conditions.
- Organic electrolyte with high electrical capacity and catalytic capacity, which allows the electric current to be obtained from molecules, during charging and discharging of battery unit.

A picture taken of the test bench sample measurement. The disc roller (3) is connected but does not change the load.



- a. Shows the constant voltage level that charges the sensor. Without load, it corresponds to the operating voltage (7-10 Volts).
- b. Note that pulses of approx. 20 V are generated when the magnetic field is active. The heart rate is usually limited by the connected cell if it takes over.
- c. Pulsates over the puck roller. The measurement is made with a 1:10 sensor, so the actual voltage is 10 times.
- d. The pulse across the coil is about 5-6 volts and the peak current is 1.15 amp - 6 watts
- The pattern generator is used to give 10 pulses and then proceed to the charging phase.
- If the coil is preheated, a current of about 1 amp is obtained with a 5–6 volt 5 kHz HW oscillator.

Electromagnetic induction battery. Picture of a test bench.



Development time – License sale

- Development time is estimated at 1 – 2 years.
- Only a global manufacturing license for sale: price immediately €3Mill., 1-2 years after €400Mill.+ royalty / kWh.
  Investor or producer.
- License reservation: price immediately €0.3 Mill., 1-2 years after €500 Mill. + royalty / kWh.
  Investor or producer.

Alternatives to a partner

Firstly; We have for sale a license for the manufacture of a unique super battery invention for a company, which first makes an agreement with us and at the same time negotiates price and payment plans.

Second; in any case, we expect to sell bookings of production licenses in advance.

For the third; You can also become a partner and buy shares in the company.

Alternatives to a partner

Alt 1. Become a shareholder for €6.0 Mill and get 20 % of the company via a targeted new issue. The liquidity must be used for development work.

Alt 2. Buy the entire invention with all rights for €7 billion, of which €6 million is paid upon signing the contract. A manufacturing license shall accrue to the inventor free of charge.
The buyer is responsible for the further development work and the patent applications, with the help of Kat-Ana and the inventor, which is estimated to take 1 - 2 years.
When the first prototype is operational, 1/3 of the balance will be paid and when commercial production begins, the remaining amount of the €7 billion will be paid.

THANKS FOR YOUR INTEREST!