French company with a removable electric motor system, designed to be easily attached to any manual wheelchair, is looking for research laboratories in disability and user ergonomics and startups specializing in batteries and innovative materials

Summary

Profile type
Technology offer

Company's country
France

POD reference
TOFR20250620008

Profile status
PUBLISHED

Type of partnership
Investment agreement
Commercial agreement with technical assistance
Research and development cooperation agreement

Targeted countries
• **World**

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Term of validity
20 Jun 2025
20 Jun 2026

Last update
20 Jun 2025

General Information

Short summary

French company that focuses on creating solutions to improve the mobility of people with reduced mobility, especially those who use manual wheelchairs. The company is particularly interested in partnerships with research laboratories in disability and user ergonomics and startups specializing in batteries and innovative materials. The objective of these collaborations would be to push innovation further and integrate the latest advances into products while respecting design and cost constraints

Full description

French company that focuses on creating solutions to improve the mobility of people with reduced mobility,especially those who use manual wheelchairs.

They are working on a motorization that allows the propulsion, steering and reversing of manual wheelchairs. The proposed solution is a removable electric motor system, designed to be easily attached to any manual wheelchair. This device allows users the ability to move more freely, without the physical effort required to maneuver a traditional chair. The main advantages of this solution include its ease of installation, its adaptability to

different models of chairs, its light weight, and its ability to significantly increase the autonomy of people with reduced mobility. The application areas of the French company are broad, ranging from everyday use in urban and domestic environments to more specific applications such as travel and leisure activities.

To continue to innovate, we must work on batteries with a long lifespan and low weight, better thoughtout control systems, an ergonomic system to facilitatehandnling by users as well as durable and resistant materials.

The main constraints are in the compact and lightweight design of the device, while maintaining an affordable cost for users. Currently, the motor system is in the development phase, with prototypes already tested. We are working on an improved version taking into account user feedback.

The company is particularly interested in partnerships with research laboratories in disability and user ergonomics and startups specializing in batteries and innovative materials. The objective of these collaborations would be to push innovation further and integrate the latest advances into products while respecting design and cost constraints.

In summary, they want to position ourselves as a key player in the field of mobility solutions for people with reduced mobility, thanks to our commitment to innovation, quality, and inclusion. With a product under development and a clear vision for the future, the company seeks to establish strategic partnerships to expand its impact and contribute to a more accessible society for all.

Advantages and innovations

It is a compact system, allowing propulsion, steering and reverse. The user is able to manipulate the system alone using an ergonomic attachment, capable of adapting to all existing manual chairs. In summary, The French compnay is positioned as an innovative and differentiated solution thanks to its compact size, ease of use and adaptability. These features set it apart from traditional electric wheelchairs and existing solutions, providing a more practical and ergonomic alternative to improve the mobility of manual wheelchair users.

Motorization allows manual wheelchair users to move effortlessly. It can be used in 3 different ways:
- In 100% electric mode, the user controls the system with their control system (joystick, buttons, etc.)
- 50-50, the user propels the chair and the motorization provides additional power
- Use of the upper limbs, the motorization is either deactivated or removed from the chair to operate only in manual mode.

Thus, the system allows you to move effortlessly while sparing your upper limbs. The objective is to help prevent and relieve chronic pain.

Technical specification or expertise sought

Stage of development

Under development

Sustainable Development goals

- **Goal 3: Good Health and Well-being**
- **Goal 10: Reduced Inequality**

IPR Status

IPR applied but not yet granted

IPR Notes

Partner Sought

Expected role of the partner

Technical Partnership
To improve and innovate in the technical design of the system, particularly with regard to the electric motor, battery, and control system.

Distribution Partnership
With the aim of expanding the market reach of this product, reaching potential customers in different countries or regions.

Partnership for Market Access and Regulatory Compliance: Navigate the complex medical device regulatory landscape and ensure product compliance in different markets.

Type of partnership

Investment agreement

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Research and development cooperation agreement

Type and size of the partner

- **SME 50 - 249**
- **Other**
- **R&D Institution**
- **SME 11-49**
- **University**
- **Big company**
- **SME <=10**

Dissemination

Technology keywords

- **11004 - Technology, Society and Employment**
- **11005 - Infrastructures for social sciences and humanities**

Market keywords

- **05007003 - Handicap aids**

Targeted countries

- **World**

Sector groups involved