



## Dispositif for evaluation and rehabilitation

### Technology

#### B.O.T.T.E

#### Boot Design, Open Chain, Three Dimensions, Transportable Ergometer



#### Keywords

- Medical device
- Physical Medicine
- Rehabilitation
- Ergometer ankle
- Portable
- Real value



#### Intellectual Property

Priority patent

FR 1550439

applied 01/20/15

PCT/FR2015/053578

applied 12/17/15

US, CA, JP, EP



#### Development Status

Functional prototypes (TRL6)

Developed with hospital Physiotherapists



#### Partnership

Patent licensing or collaboration

### Benefits

- Returns the real value of the force developed in the ankle, the patient cannot take support on other parts of his body or engage other muscles to increase power output.
- (values are overestimated by 40% with other ergometers)
- We only measure the strength of the plantar flexor muscles.
- The measurement may be done in the supine or sitting position.
- Allows a early assessment of the patient's ability to be mobilized ==> more rapid mobilization of the patient.
- Can be used to motivate and rehabilitate the patient through the use of playful force feedback on a screen which allows a performance gain for the patient by 20%
- Portable
- Reduced cost compared to other ergometers.

### Applications

- Evaluation, Rehabilitation and early motivation of lying or sitting patients.
- Potentially concerns all hospitals services, not just functional rehabilitation

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