

Wireless Power Design

WIPOD

(an approved IWT TETRA project)



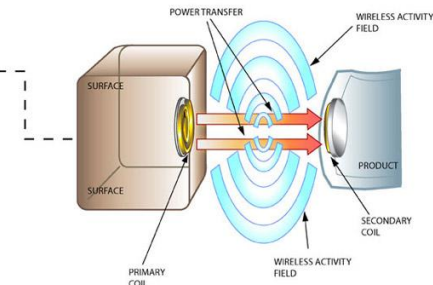
Nobby Stevens
Research group DraMCo
FIIW, KU Leuven, Belgium

- Disadvantages galvanic coupling:

- ✓ Practically annoying power cable
- ✓ Only one device is charged
- ✓ Risks of sparks at disconnecting
- ✓ Potential moisture penetration
- ✓ Usage door protecting the connector



- Operating principle inductive charging: + / -



- Same principle as electrical transformer.

innovation for SME

transnational funding opportunities for European SME

- Advantages:
 - ✓ Charging ≠ devices simultaneously
 - ✓ Ease of use
 - ✓ Limited number of power cables
 - ✓ No potential moisture penetration
 - ✓ Implants: Major technological leap
- Companies of the user committee:





Project Details

Project coordinator	Nobby Stevens, research group DraMCo, KU Leuven
Other applicants	Research group Energy and Automation, KU Leuven
Sector	Electronics
Call of Interest	<input type="checkbox"/> CORNET
Proposal summary:	In many companies (esp. SME's), there are not enough resources to obtain the required knowledge to integrate wireless power technology. Goal: To lower the threshold!
Advantages for SMEs, trade or industry:	Independency to integrate the technology of wireless power in their own specific electronic products.
Profile of partners sought:	Research groups with expertise related to the subject. Manufacturers of electronic products that are battery powered.



Technology: Wireless powering of electronic devices by use of magnetic coupling between coils.

Major objectives: To define a design cycle that will be used as a guideline for electronic manufacturers (in the broadest sense) to integrate the technology of wireless powering by inductive coupling in their own products.

The actors: Two research groups and about 13 companies

The benefit: Acquire the knowledge to design the integration of the wireless power technology.

Cost and duration of the project: 2 years (started on October 2011) with a cost of about 320k€.



Contact details:

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