



doppio spazio
comunicazione architettura design

outdoor

stainless steel fabrics

resistant to oxidation

incombustible



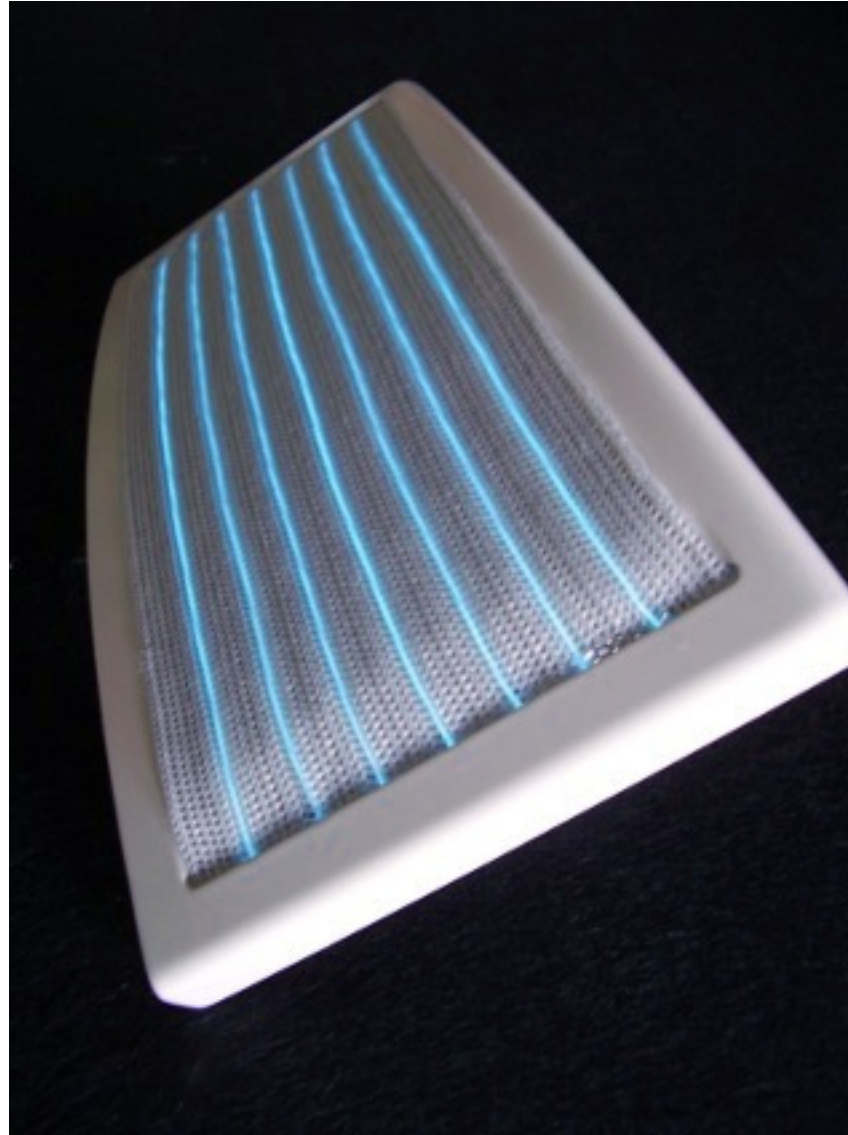
Design Pauline van Dongen – photo: Mike Nicolaassen

fashion

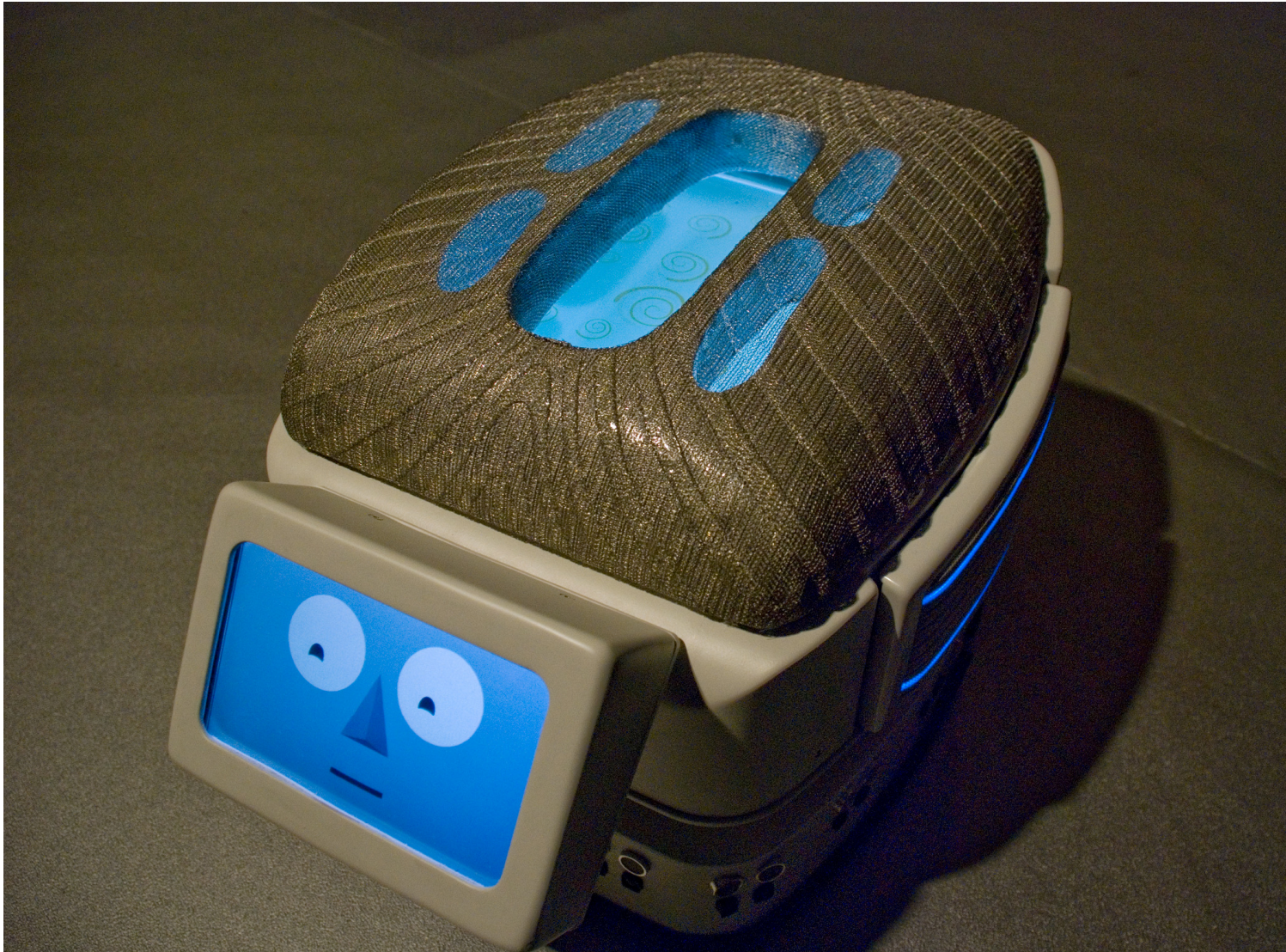


Design Pauline van Dongen – photo: Mike Nicolaassen

fashion



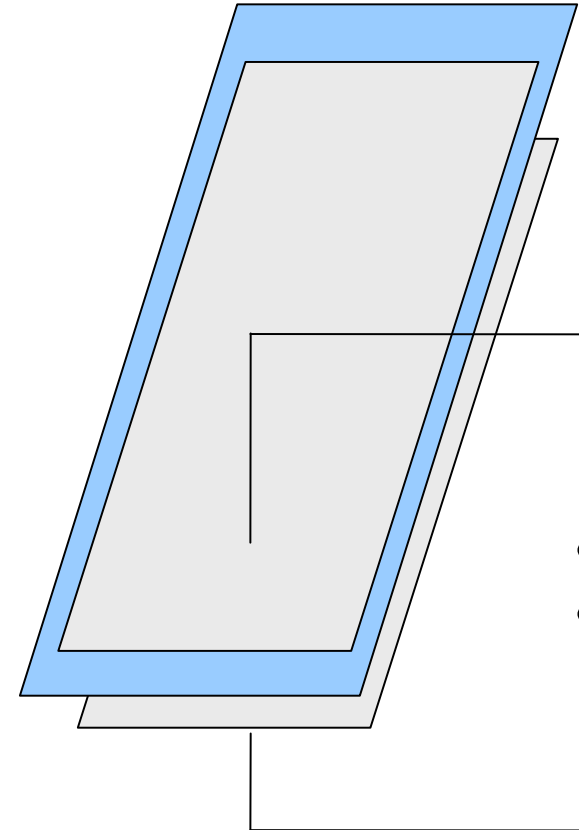
light emitting fabrics



light emitting fabrics

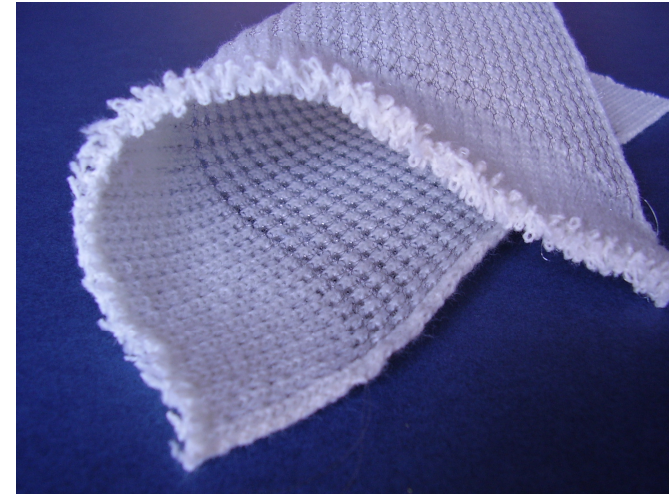
Textile push button

- Knitted three-layered fabric, two conductive layers with a non-conductive layer in between
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- If pressed, the two conductive layers touch allowing current flow
- Materials: acrylic yarn, stainless steel



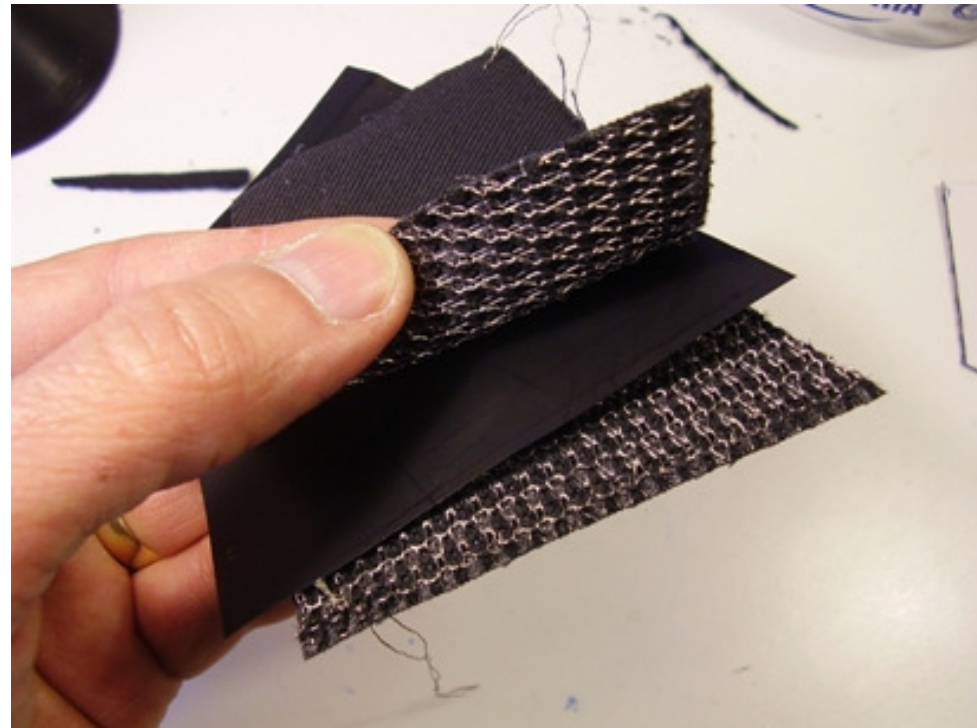
Innovative aspects

- No need of further production steps
- Low cost
- Transpiring
- Semi-transparent
- Flexible
- Different activating pressures
- Matrix switches
- Large area switches (50 cm x 50 cm)
- Skin compatible materials
- Switch arrays

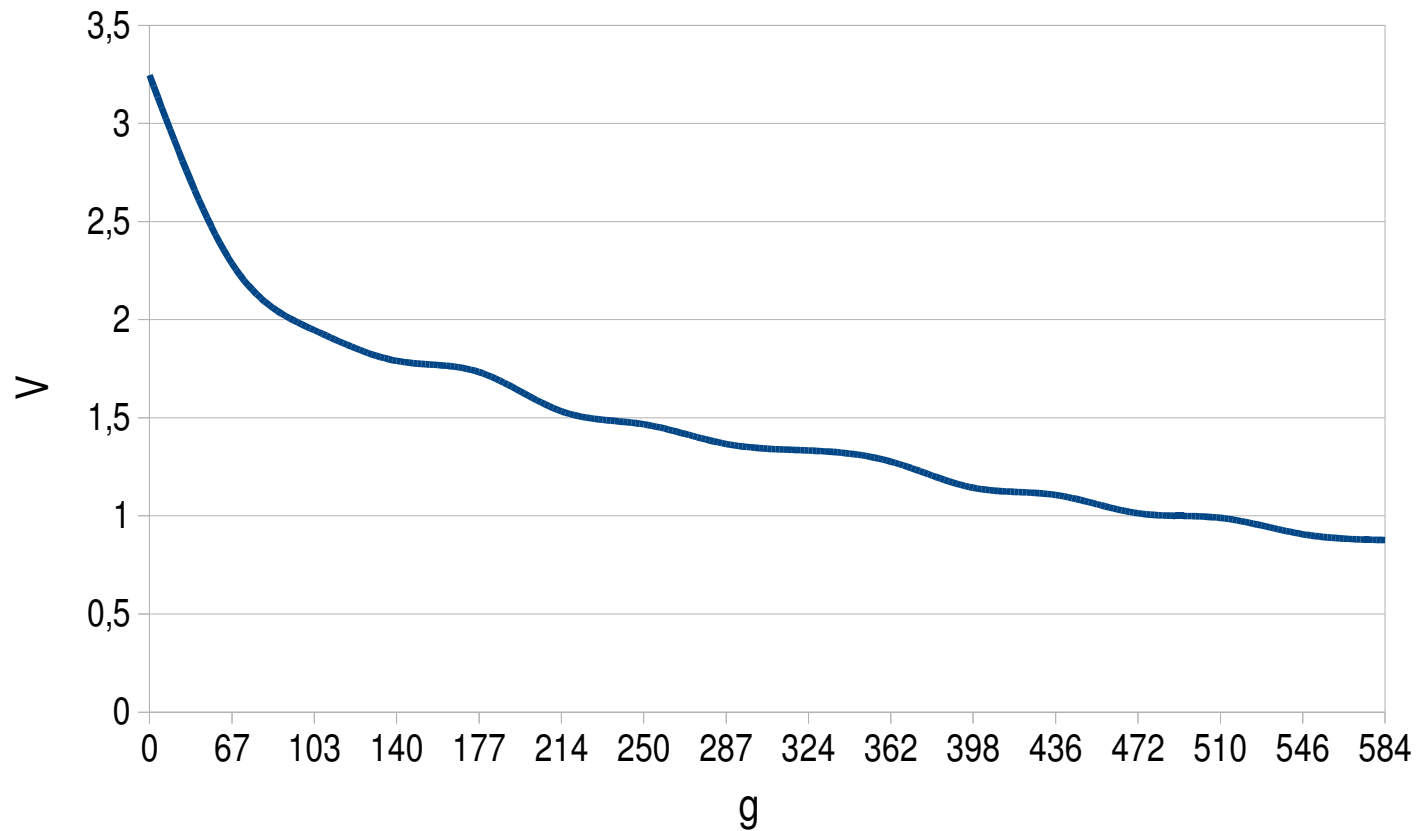


Textile sensors:

- » Resistive principle
- » Analog
- » Linear
- » Low hysteresis
- » Flexible
- » Easy to connect
- » They have a textile feel
- » Can be shaped
- » Can have large size

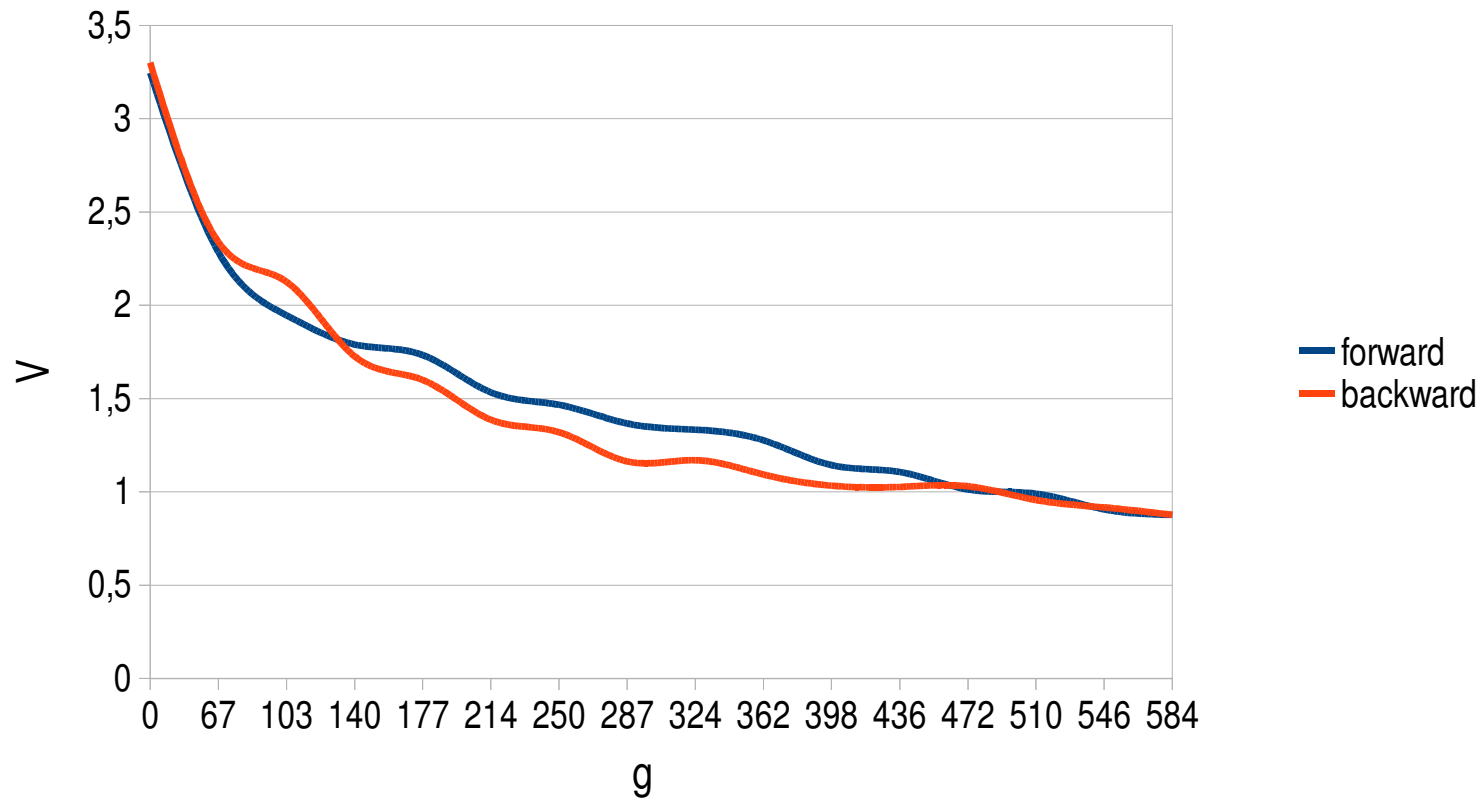


Textile sensors linearity (V versus g)*

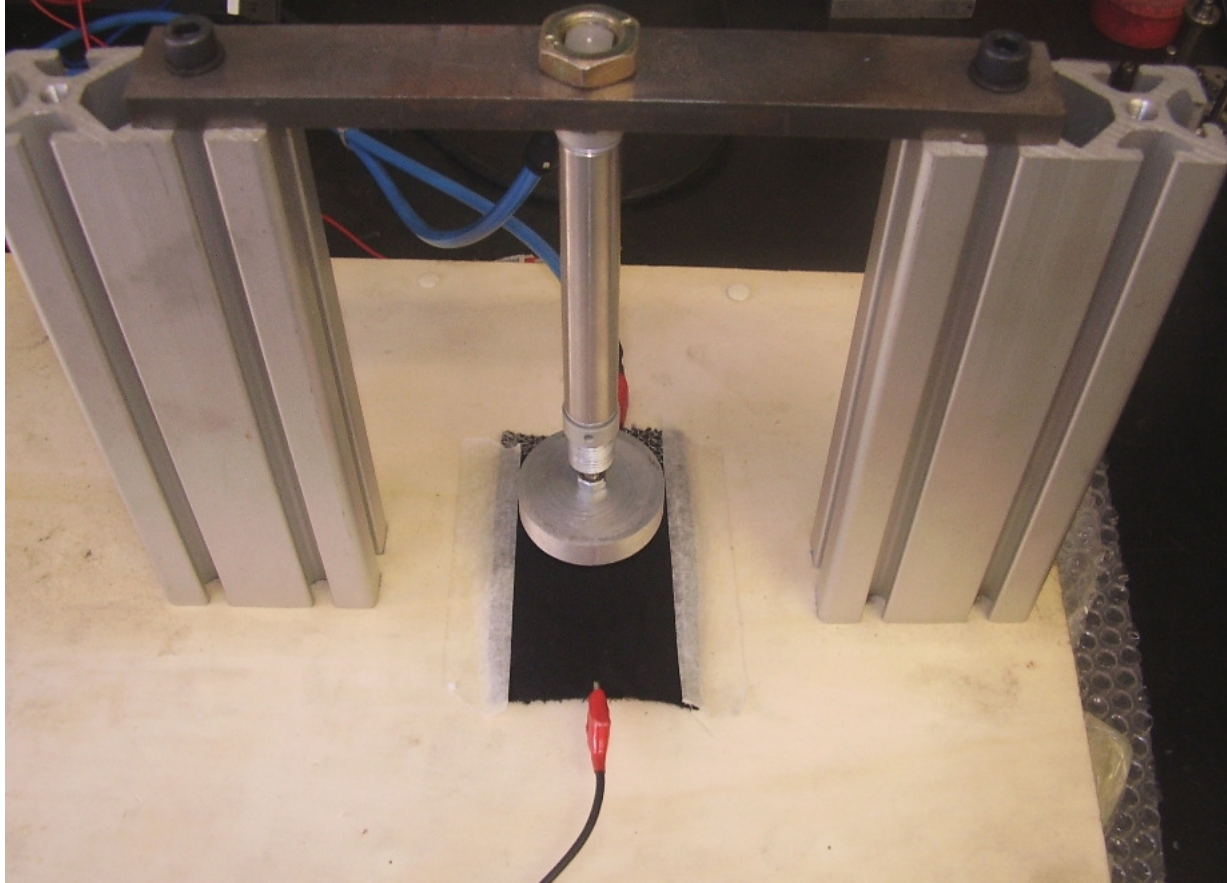


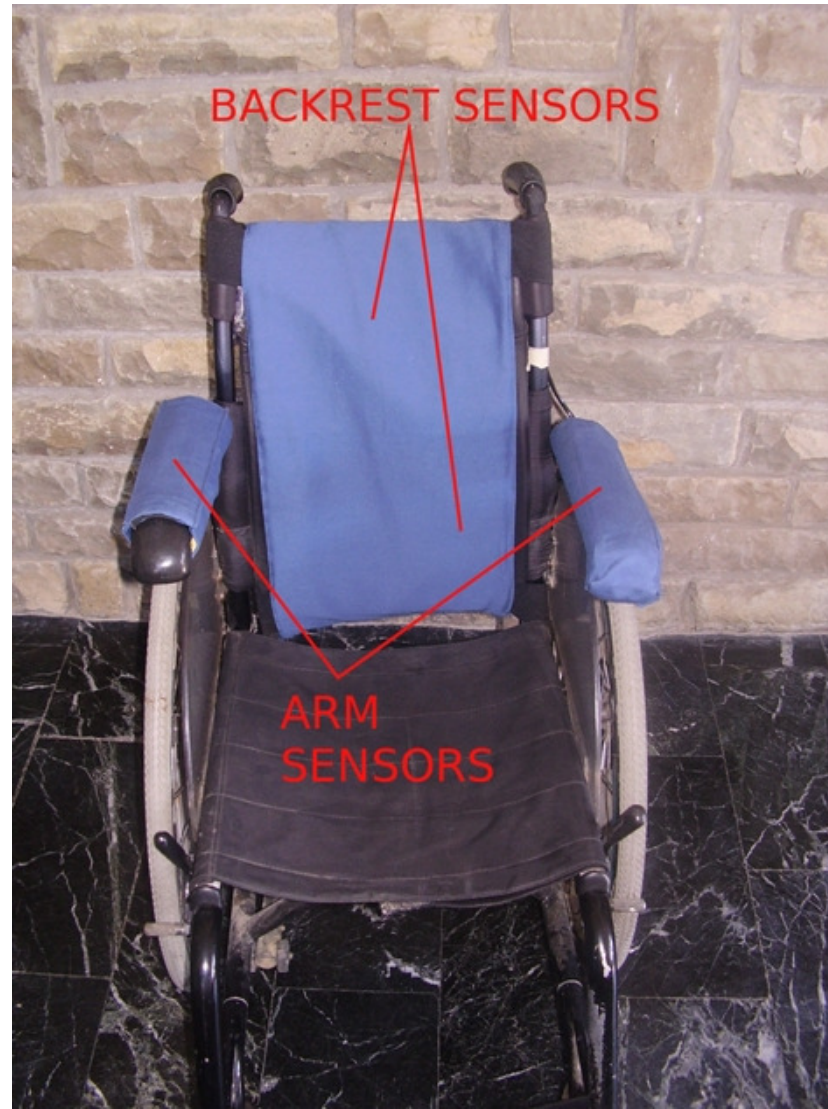
* pressure applied by a 50 mm diameter disk

Textile sensors hysteresis*

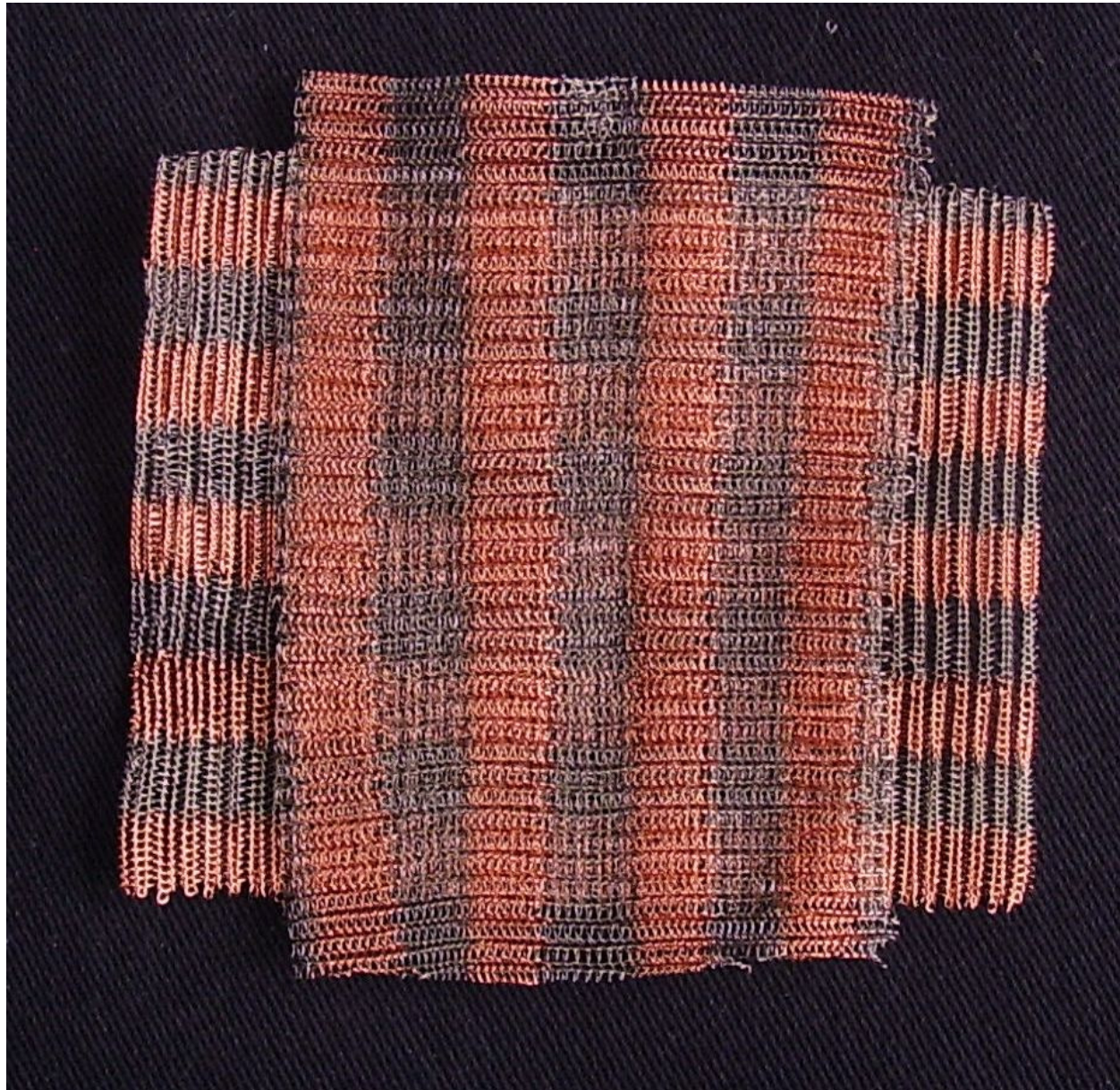


* pressure applied by a 50 mm diameter disk





Interactive wheelchair monitoring system



analog matrix sensors

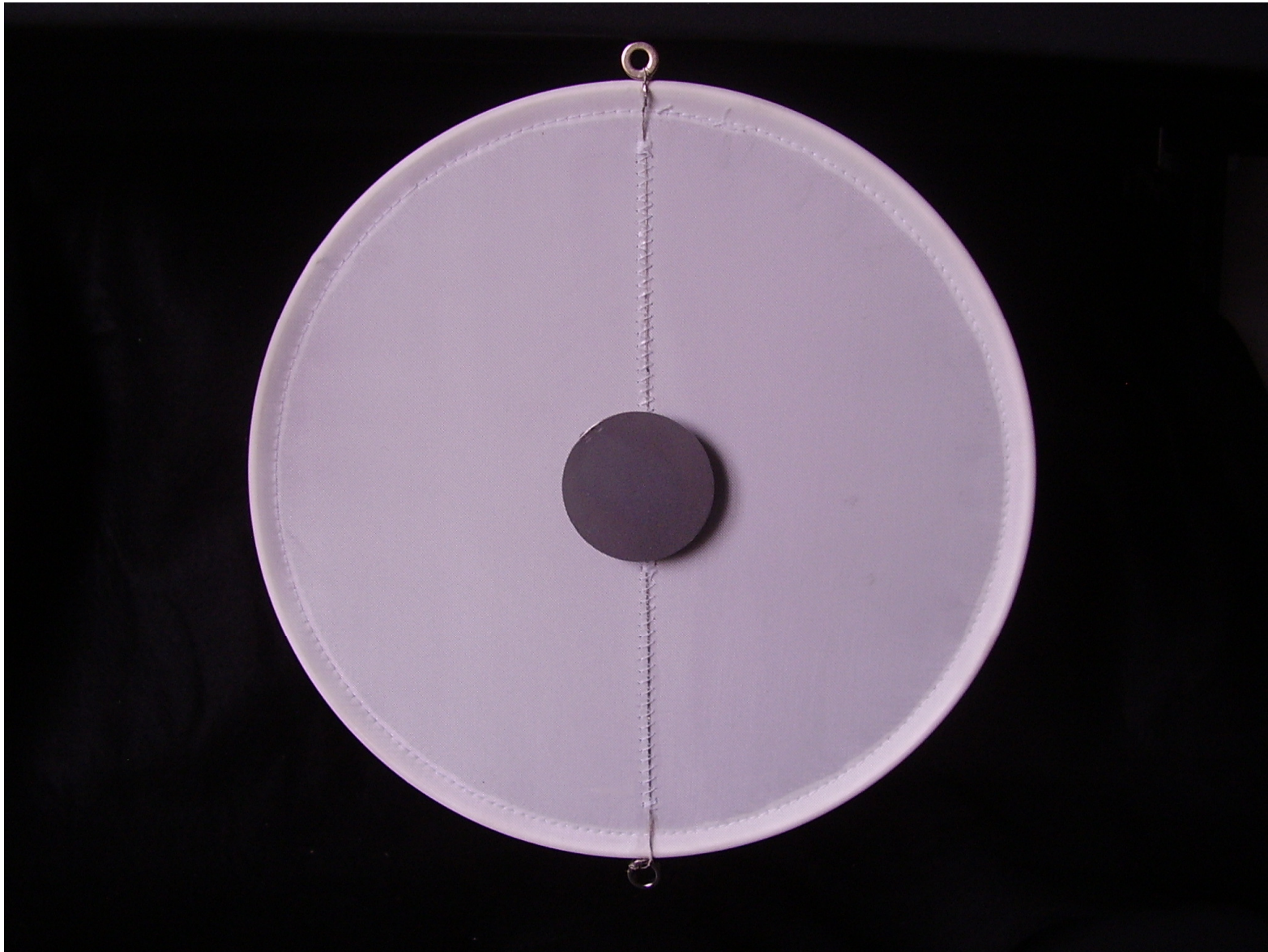


stretch sensors

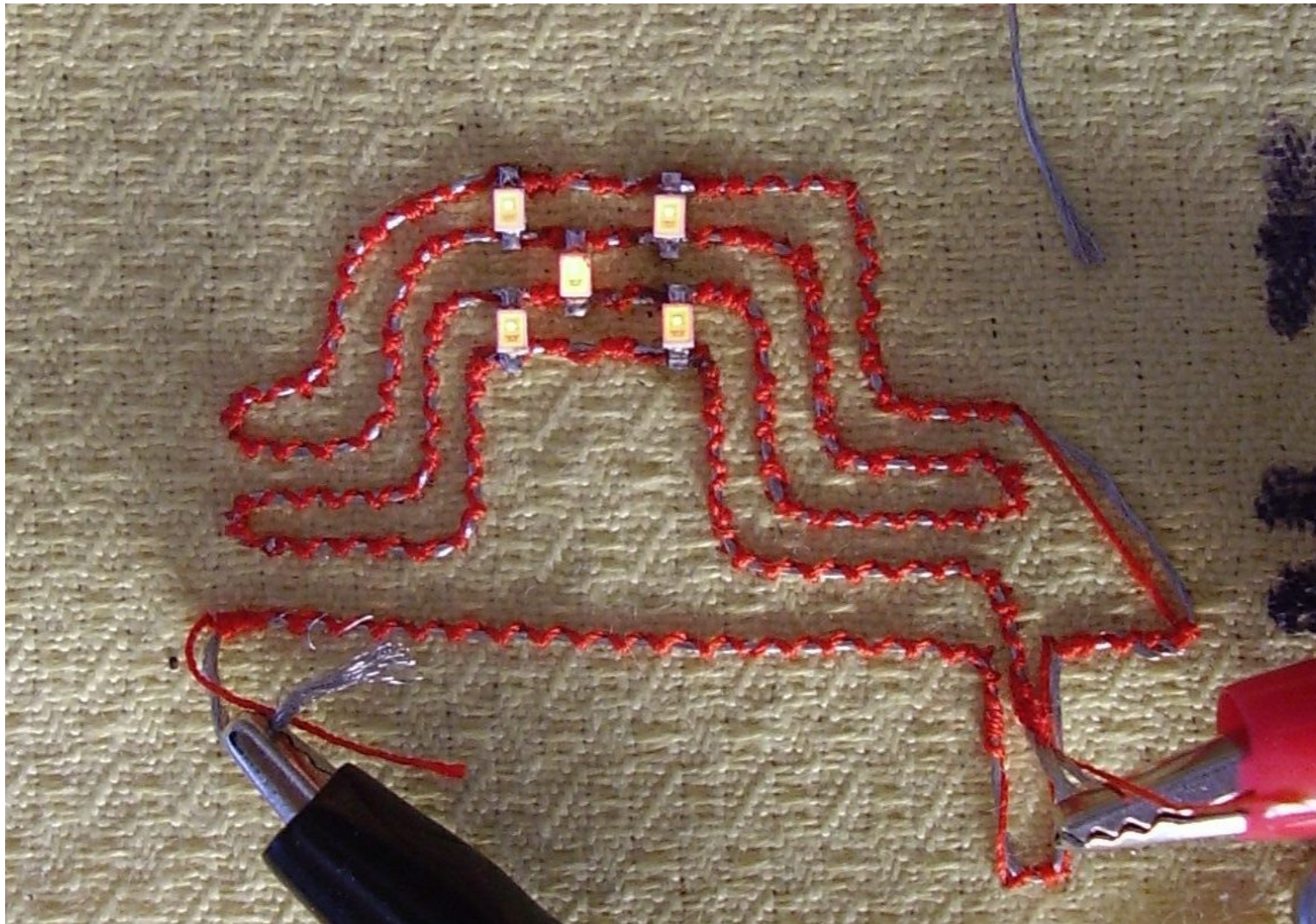


water sensors

ubicom
internet
of things



future challenges



future challenges

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