

Cement injection device for Vertebroplasty



Telerobotic system allowing precise control of both cement viscosity and injection duration for vertebroplasty surgical procedures

KEYWORDS

Robotic surgery

Percutaneous

vertebroplasty

Minimally invasive surgery

Spinal treatment

PATENTS

EP15305974

EP15305975

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LAB

B. Bayle

- ICube -

UMR 7357

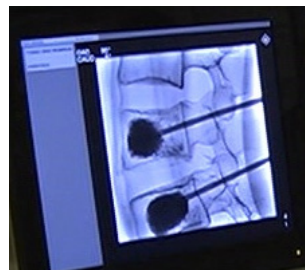
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TECHNOLOGY

- Master-slave robotic system for cement injection
- Automatic viscosity control throughout the procedure
- Fine adjustments of injection speed
- Haptic feedback
- Easy operation by physicians



Cement injection in vertebral body

APPLICATIONS

- Percutaneous vertebroplasty surgical procedures

ADVANTAGES

- Radiologist precisely controls injection speed with a finger
- Lessens risk of cement leakage outside vertebral body by quickly reaching minimum viscosity
- Physician removed from radiation field
- Delays cement hardening for longer injection time

DEVELOPMENT STATUS

- Prototype available soon for demonstration on phantom vertebrae

Partnership: Seeking partners to licence the patent

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