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Emergency suited external orthopedic fixator for intuitive and independent translational motions

KEYWORDS

- External fixation system
- Ankle/foot fracture-dislocations
- Simple translational motion
- Emergency situation

Technology Market

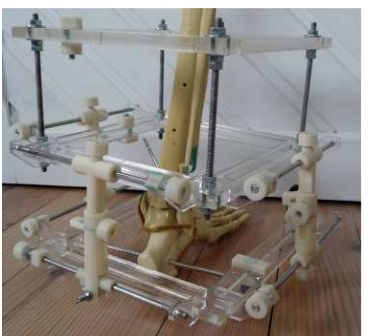
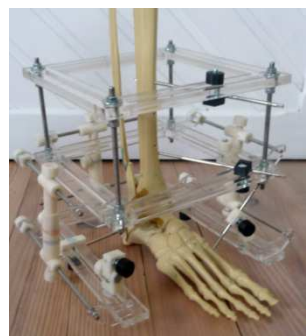
Orthopedic device (reconstructive, trauma)

Orthopedic external fixation systems are used for reduction and stabilisation of joint dislocations and fractures.

External fixators can be used as a primary means of reduction and stabilisation of dislocations and articular fractures for: A) temporary external fixation to stabilize the injury, allow soft tissue to recover, plan the definitive internal fixation and B) definitive fixation when internal osteosynthesis is not possible

The UCL / Saint-Luc invention

The present orthopedic external system provides an easy-to-use fixator for ankle and hindfoot fracture-dislocations, well-suited for emergency situations, and implementing simple motion compared to existing systems.



Evolutions of the developed functional demonstrator

Key figures

- At least pure relative translations between the frame elements, independently in three directions,
- Easy to use even with basic training in orthopedic fixators,
- No need for any software performing the calculation of the necessary adjustments,
- Reduction within a single plane without modifying the adjustments made in the two other planes.

Technology Status

Proof-of-concept successfully validated on synthetic bone models.

This work is the subject of an EP patent application filed on 29/05/2015 (application number EP15169978.2).

Preferred Partnership

Joint development, licensing opportunities

INTERESTED TO DEVELOP AND / OR COMMERCIALISE THIS TECHNOLOGY?

Please contact:

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