Hand External Fixation and Joint Mobilization and Distraction Device

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Description:
This invention is directed toward a hand fracture, burn and contraction treatment device that is capable of imparting the desired amount of long term force and moment to the interphalangeal and metacarpalphalangeal joints so as to effectively combat deformity due to burn scar or trauma, to prevent and/or correct contractures, and to reduce and immobilize fractures. The invention comprises two axial members slidably mounted within respective housings and joined by a spherical joint (with a slot to provide a selectable axis of increased range of motion). The invention permits movement of one axial member with respect to the other axial member in up to five degrees of freedom. The invention further provides for the adjustable mobilization of each axial member.

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