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(54) Title: A BREATHABLE AND CUSTOMIZED CAST FOR IMMOBILIZATION OF FRACTURED LIMB

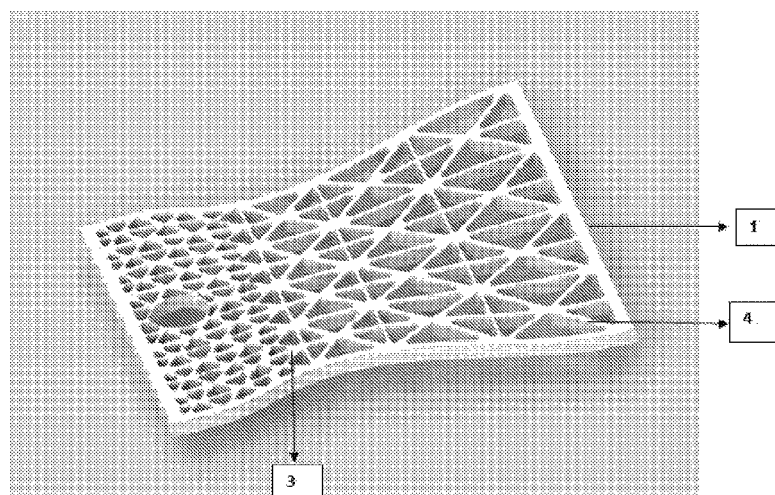


FIGURE 1

(57) Abstract: The present invention provides a breathable orthopedic cast device for immobilizing and stabilizing at least one fracture limb. The breathable orthopedic cast device comprising: a customizable cast member having hollow tubes pre-injected with at least one infusion material, said hollow tubes interlinked with each other to form a mesh structure to provide breathability to said fracture limb. The breathable orthopedic cast device either a flat unfolded geometry that can be applied over said injured body member by wrapping, or can be customized to a shape corresponding to the contours of the body member and thereby wearable like a glove over said injured body member.



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