

Title (en)

SYSTEM FOR ALTERING TISSUE BENEATH AN OUTER LAYER OF TISSUE

Title (de)

SYSTEM ZUM MODIFIZIEREN VON UNTER EINER ÄUSSEREN GEWEBESCHICHT LIEGENDEM GEWEBE

Title (fr)

SYSTEME PERMETTANT DE MODIFIER DES TISSUS SOUS UNE COUCHE EXTERIEURE DE TISSUS

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Application

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Abstract (en)

[origin: WO9849955A1] A system for treating sublayers of tissue (16, 44) lying beneath an outer layer of tissue (12, 50) is disclosed. The system includes an energy emitter (30, 92) able to heat predetermined areas (26, 52, 64) of the tissue sublayers (16, 44). The energy for heating typically is generated by a laser or lamp able to produce electromagnetic radiation in the infrared region to thereby cause tissue (16, 44) at the predetermined areas (26, 52, 64) to heat and shrink. The shrinkage causes the shape of the outer layer (12, 50) or surface to change in a controlled manner that corrects the problematic surface formation, e.g., refractive error. An energy absorption modifier (32, 90) is used to avoid damage to the outer layer (12, 50) of tissue as energy is passed therethrough.

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