

Title (en)

APPARATUS FOR AND METHOD OF LASER SURGERY OF HARD TISSUES

Title (de)

VORRICHTUNG UND VERFAHREN FÜR DIE LASERCHIRURGIE VON HARTEN GEWEBEN

Title (fr)

APPAREIL ET PROCEDE POUR REALISER UNE CHIRURGIE AU LASER SUR DES TISSUS DURS

Publication

**EP 1079744 A1 20010307 (EN)**

Application

**EP 99919946 A 19990421**

Priority

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- US 6954798 A 19980430

Abstract (en)

[origin: WO9955243A1] An apparatus (20) for ablating a target site (22) of a hard biological tissue (24), such as enamel, dentine and bone tissue including a first radiation source (26) activatable of producing a first output (28) having a wavelength of between 1.5 and 6.5 microns; a second radiation source (27) activatable of producing a second output (30) having a wavelength of between 9.0 and 10.6 microns; a delivering arrangement (32) for effecting coaxially of the first (28), and second (30) outputs and for concurrently delivering the outputs to the target site (22); wherein the first (28) and the second (30) outputs are selected such that the concurrent delivery of the first (28), and second (30) outputs to the target site (22) ablates the hard tissue (24) at the target site (22).

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