

Title (en)
DENTAL LASER TREATMENT INSTRUMENT COMPRISING A LIGHT DECOUPLING ELEMENT AND INTEGRATED WETTING SYSTEM

Title (de)
ZAHNÄRZTLICHES LASER-BEHANDLUNGSINSTRUMENT MIT LICHT-AUSKOPPELELEMENT UND INTEGRIERTER WASSERBEFEUCHTUNG

Title (fr)
INSTRUMENT DE TRAITEMENT DENTARE PAR LASER COMPRENANT UN ÉLÉMENT DE SORTIE DE LUMIÈRE ET UN SYSTÈME D'HUMIDIFICATION INTÉGRÉ UTILISANT DE L'EAU

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Abstract (en)
[origin: WO2008101655A1] The invention relates to a dental laser treatment instrument comprising a hand piece (1) that is to be connected to a supply tube for supplying laser radiation and a treatment fluid, and an elongate decoupling element (30) for releasing the laser radiation is arranged on the front end (4) thereof. Said decoupling element (30) comprises an elongate optical fibre (31) and a cylindrical or sleeve-shaped holder (32, 33) which surrounds the optical fibre (31) at a distance, at least in one area that faces the front end (31b) of the fibre (31), in order to form a fluid channel (22). Said fluid channel (22) is in contact with a supply line (8, 9) that extends through the hand piece (1). The connection between the fluid channel (22) and the supply line (8, 9) is established by means of a single through opening (34) formed in the wall of the cylindrical or sleeve-shaped holder (32, 33).

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See references of WO 2008101655A1

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