

Title (en)

PROJECTOR DEVICE WITH SELF-CORRECTING FUNCTION, AND MEDICAL DEVICE COMPRISING THE PROJECTOR DEVICE

Title (de)

PROJEKTORVORRICHTUNG MIT SELBSTKORREKTURFUNKTION SOWIE MEDIZINGERÄT MIT DER PROJEKTORVORRICHTUNG

Title (fr)

ENSEMBLE PROJECTEUR PRÉSENTANT UNE FONCTION D'AUTOCORRECTION ET APPAREIL MÉDICAL ÉQUIPÉ DE CET ENSEMBLE PROJECTEUR

Publication

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Application

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Abstract (en)

[origin: WO2012119885A1] The aim the invention is to provide a projector device and a medical device comprising the projector device, said projector device allowing an improved measurement of the local refractive power of an optical body, in particular an eye. For this purpose, the invention proposes a projector device 1 for projecting a flat pattern 2 on a plane 3, in particular in a human eye 4, comprising at least one light source (LS1, LS2) which generates a light beam, comprising a deflecting device (MSS) which allows a deflection of the light beam at a deflection angle in order to generate the flat pattern (2) on the plane (3), comprising a beam path (7) which extends at least from the light source (LS1, LS2) to the plane (3), comprising at least one sensor device (L1, D1, W2, D2) which is designed to determine the actual state of a light beam wavefront in any position of the beam path (7), and comprising at least one correcting device (EL; O2, O3) which is arranged in the beam path (7) and which allows an alteration of the light beam wavefront. According to the invention, a high-resolution alteration of the wavefront is carried out by an optical control element with a variable focal length.

IPC 8 full level

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CPC (source: EP US)

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