

Title (en)

INDIVIDUALISED SPECTACLE FRAME AND METHOD FOR GENERATING GEOMETRY DATA THEREOF

Title (de)

INDIVIDUALISIERTE BRILLENFASSUNG UND VERFAHREN ZUM ERZEUGEN VON DEREN GEOMETRIEDATEN

Title (fr)

MONTURE DE LUNETTES INDIVIDUALISÉE ET PROCÉDÉ DE GÉNÉRATION DE DONNÉES GÉOMÉTRIQUES DE CELLE-CI

Publication

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Application

EP 22719532 A 20220329

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Abstract (en)

[origin: WO202218693A1] The invention relates to a method for generating geometry data which represents the geometry of a spectacle frame that is individualised for a particular person, said method comprising: acquiring or generating biometric head model data which represents a virtual multidimensional model of the person's head for at least a partial region of the head that includes the person's two ears; acquiring or generating spectacle frame data which defines an initial geometry of a particular spectacle frame based on particular parameter values of a geometric, in particular virtual, spectacle frame model parameterised by a parameter set having a plurality of parameters; automatically adapting the initial geometry of the spectacle frame to the model of the head, wherein modified spectacle frame data which represents a spectacle frame geometry adapted to the model of the head is generated by correspondingly changing at least one parameter value of the parameter set; and providing the modified spectacle frame data as geometry data of a spectacle frame that is individualised for the person. The adaptation process comprises: determining at least one parameter value of the parameter set depending on a location, on the head, of an ear base point of the ear associated with a spectacle frame earpiece, said location being determined from the head model data, and depending on a defined length offset that is relative to the ear base point, as a result of which the location of an earpiece bend along the course of the earpiece is determined for the earpiece in the spectacle frame model.

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