

Title (en)
METHOD FOR ALIGNING VIRTUAL MODELS OF DENTAL ARCHES OF AN INDIVIDUAL WITH A DIGITAL MODEL OF THE FACE OF SAID INDIVIDUAL

Title (de)
VERFAHREN ZUM AUSRICHTEN VIRTUELLER MODELLE VON ZAHNBÖGEN EINER PERSON MIT EINEM DIGITALEN MODELL DES GESICHTS DER PERSON

Title (fr)
PROCÉDÉ DE RECALAGE DE MODÈLES VIRTUELS DES ARCADES DENTAIRES D'UN INDIVIDU AVEC UN MODELE NUMERIQUE DU VISAGE DUDIT INDIVIDU

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Application
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Priority
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Abstract (en)
[origin: WO2020183115A1] The invention relates to a method for aligning non-radiographic virtual models of a mandibular arch and of a maxillary arch of an individual with a non-radiographic digital model of the face of said individual, characterized in that it comprises: fastening a mandibular marker rigidly to the mandibular arch of the individual, said mandibular marker defining a first frame of reference; providing a non-radiographic virtual model of the mandibular arch and a non-radiographic virtual model of the maxillary arch; digitizing at least one portion of the surface of the teeth or of a prosthetic device securely fastened to said arch and at least one rigid portion of said marker by means of an intra- or extra-oral camera, so as to produce a digital record of said portions of the mandibular arch and of the marker in a given second frame of reference; on the basis of said record and of the virtual models of the mandibular arch and of the mandibular marker, matching the digital model of the mandibular marker with the marker, and the virtual model of the mandibular arch with said arch, and locating the virtual model of the mandibular arch in the first frame of reference; acquiring a non-radiographic digital model of the face of the patient; and locating the digital model of the face in the first frame of reference, so as to align the virtual models of the maxillary and mandibular arches with said digital model of the face.

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