

Title (en)

A METHOD FOR SPEECH SYNTHESIS MODELLING, AND SPEECH SYNTHESIS APPARATUS

Title (de)

VERFAHREN UND VORRICHTUNG ZUR MODELIERUNG VON SPRACHSYNTHESE

Title (fr)

PROCEDE DE MODELISATION DE SYNTHESE DE LA PAROLE ET APPAREIL DE SYNTHESE DE LA PAROLE

Publication

**EP 0766861 B1 20000329 (EN)**

Application

**EP 96905961 A 19960318**

Priority

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Abstract (en)

[origin: WO9633487A2] Speech synthesis is based on a human vocal chords model with two dynamically interlinked masses. Their positions determine glottis parameters. In particular, a first sub-model describes the dynamically interlinked masses acted upon by external forces. A second dynamical partial model describes dynamics of a contour of the glottis in dependence of geometry parameters produced by the first sub-model, and outputs a first part of the external forces in addition to transmitting the geometry parameters. A third hydrodynamic sub-model describes hydrodynamics in dependence of the transmitted parameters, is acted upon by air pressure parameters, and outputs a second part of the external forces and an actual volume velocity.

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