

Title (en)
SPEAKER VERIFICATION SYSTEM.

Title (de)
SYSTEM ZUR SPRECHERIDENTITÄTSPRÜFUNG.

Title (fr)
SYSTEME DE VERIFICATION DU LOCUTEUR.

Publication
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Application
EP 86907234 A 19860701

Priority
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Abstract (en)
[origin: WO8700332A1] A speaker verification system and method develop, in an enrollment mode (22), a data base comprising plural templates (47) for each of a group of words from a speaker having parameters corresponding to the vocal tract, which parameters are compared with themselves and with parameters representing templates of those words from a generic group of speakers, to develop distortion values indicating closeness of match of the speaker's vocal tract to his own templates and of a generic vocal tract to the same templates of the speaker. These distortions are used to develop information indicative of probabilities for given words of erroneously accepting an imposter, or erroneously rejecting the correct speaker (46). In a verification mode (50), the speaker utters word tokens corresponding to his stored templates. Parameters are extracted (60), with the parameters of the speaker's stored templates to develop distortion values representing the difference between the compared parameters. The distortion values for the current speech are analyzed against the probabilities of erroneous acceptance or rejection. A plurality of speech samples may be processed during verification. Acceptance or rejection is based on cumulative probabilities (70). Access to controlled areas is permitted in response to an acceptance signal from the verification system.

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G10L 5/00

IPC 8 full level
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Citation (search report)

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