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(71) Applicant (for all designated States except US): **MICROSOFT CORPORATION** [US/US]; One Microsoft Way, Redmond, Washington 98052-6399 (US).

(72) Inventors: **ZHANG, Zhengyou**; One Microsoft Way, Redmond, Washington 98052-6399 (US). **LIU, Ming**;

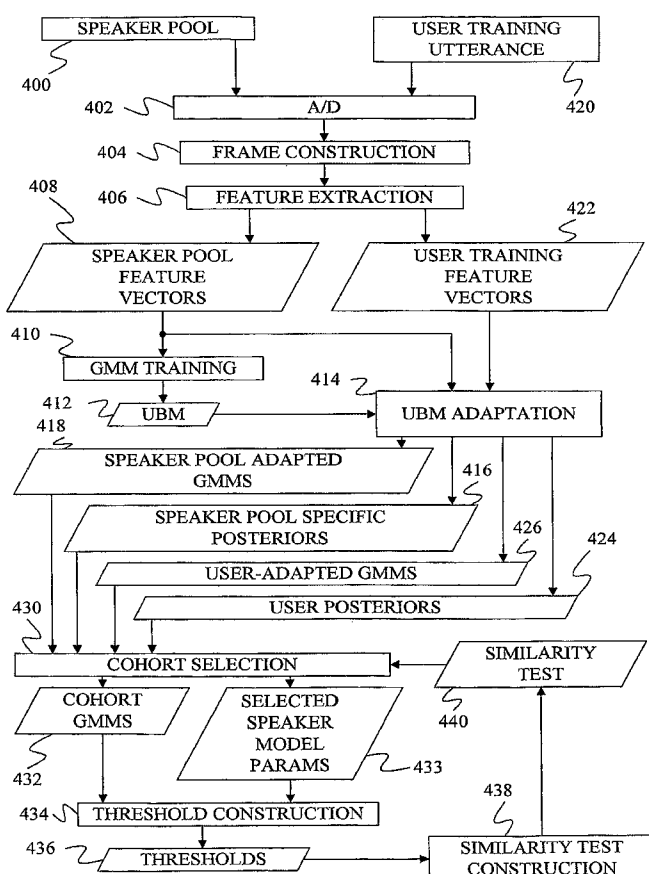
One Microsoft Way, Redmond, Washington 98052-6399 (US).

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(54) Title: SPEAKER AUTHENTICATION



(57) Abstract: Speaker authentication is performed by determining a similarity score for a test utterance and a stored training utterance. Computing the similarity score involves determining the sum of a group of functions, where each function includes the product of a posterior probability of a mixture component and a difference between an adapted mean and a background mean. The adapted mean is formed based on the background mean and the test utterance. The speech content provided by the speaker for authentication can be text-independent (i.e., any content they want to say) or text-dependent (i.e., a particular phrase used for training).

**Declarations under Rule 4.17:**

- as to applicant's entitlement to apply for and be granted a patent (Rule 4.17(ii))
- as to the applicant's entitlement to claim the priority of the earlier application (Rule 4.17(iii))
- before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments

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