UNITED STATES PATENT AND TRADEMARK OFFICE

BEFORE THE PATENT TRIAL AND APPEAL BOARD

APPLE INC.
Petitioner

v.

ZENTIAN LIMITED,
Patent Owner

Inter Partes Review Case No. IPR2023-00037
U.S. Patent No. 10,971,140

DECLARATION OF CHRISTOPHER SCHMANDT IN SUPPORT OF PETITION FOR *INTER PARTES* REVIEW OF U.S. PATENT NO. 10,971,140

TABLE OF CONTENTS

CLAIM LISTING

Claim 1:

Claim 1[Pre] A speech recognition circuit comprising:

1(a): one or more clusters of processors, each of the one or more clusters of processors comprising: a plurality of processors;

1(b): and an acoustic model memory storing acoustic model data,

1(c): wherein each of the plurality of processors is configured to compute a probability using the acoustic model data in the acoustic model memory,

1(d): wherein: the speech recognition circuit is configured to generate an initial score for an audio sample;

1(e): and the initial score is used to determine whether to continue processing to determine a final score via processing a larger amount of model data than that was processed to generate the initial score.

Claim 2

The speech recognition circuit of claim 1, wherein the probability is an input to an evaluation of a state transition of a model of states.

Claim 3

The speech recognition circuit of claim 2, wherein the model is a Hidden Markov Model.

Claim 4

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