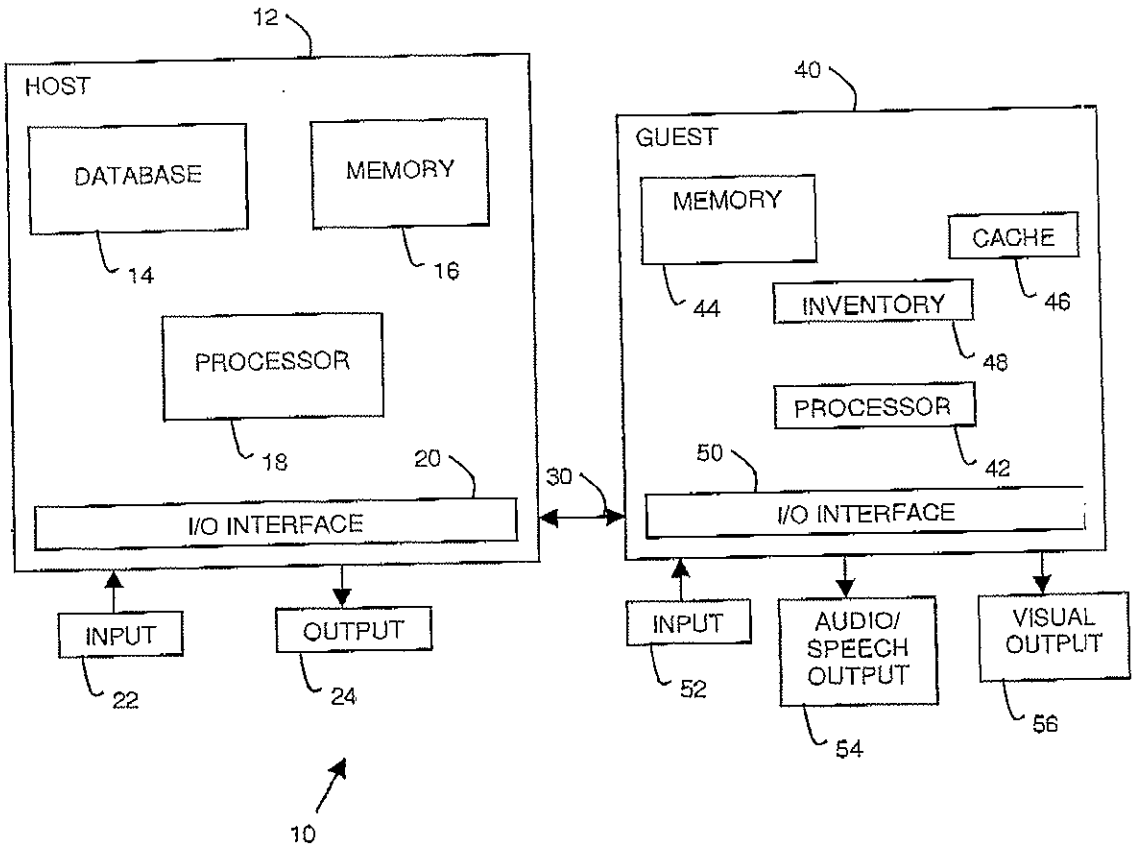

12
HOST
DATABASE
14
MEMORY
16
PROCESSOR
18
20
I/O INTERFACE
INPUT
22
OUTPUT
24
10
30
40
GUEST
MEMORY
44
CACHE
46
INVENTORY
48
PROCESSOR
42
50
I/O INTERFACE
INPUT
52
AUDIO/
SPEECH
OUTPUT
54
VISUAL
OUTPUT
56

FIG. 1

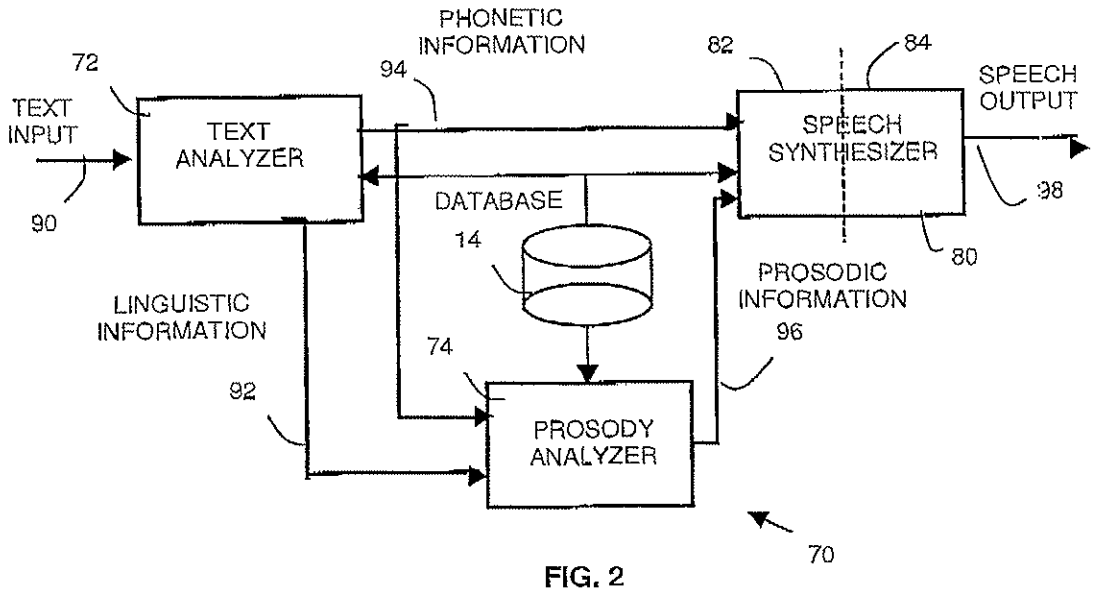

PHONETIC
INFORMATION
72
94
82
84
SPEECH
OUTPUT
TEXT
INPUT
TEXT
ANALYZER
SPEECH
SYNTHESIZER
90
98
DATABASE
14
80
PROSODIC
INFORMATION
LINGUISTIC
INFORMATION
96
74
92
PROSODY
ANALYZER
70

FIG. 2

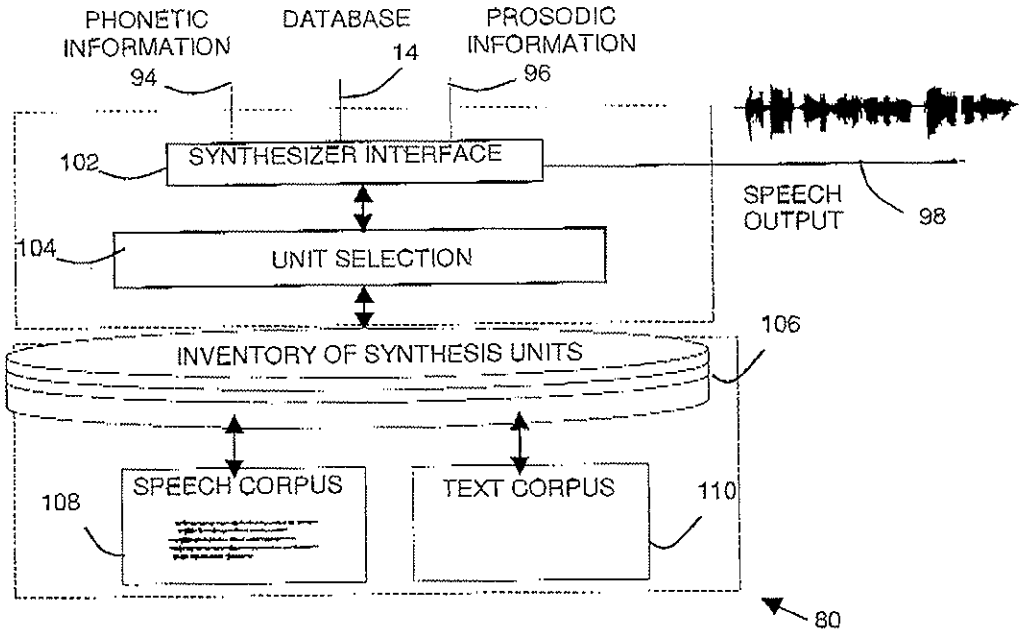

PHONETIC INFORMATION
94
DATABASE
14
PROSODIC INFORMATION
96
102
SYNTHESIZER INTERFACE
SPEECH OUTPUT
98
104
UNIT SELECTION
106
INVENTORY OF SYNTHESIS UNITS
108
SPEECH CORPUS
TEXT CORPUS
110
80

FIG. 3

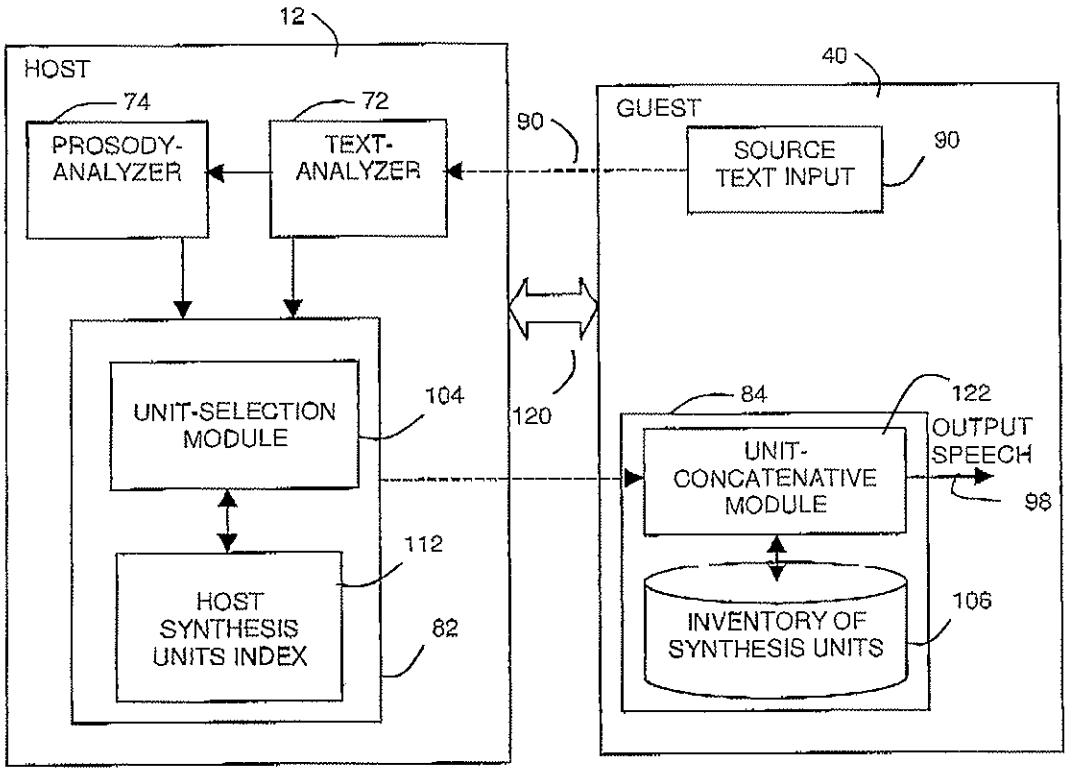

12
HOST
74
PROSODY-ANALYZER
72
TEXT-ANALYZER
UNIT-SELECTION MODULE
104
HOST SYNTHESIS UNITS INDEX
112
82
90
120
40
GUEST
SOURCE TEXT INPUT
90
84
122
UNIT-CONCATENATIVE MODULE
OUTPUT SPEECH
98
INVENTORY OF SYNTHESIS UNITS
106

FIG. 4

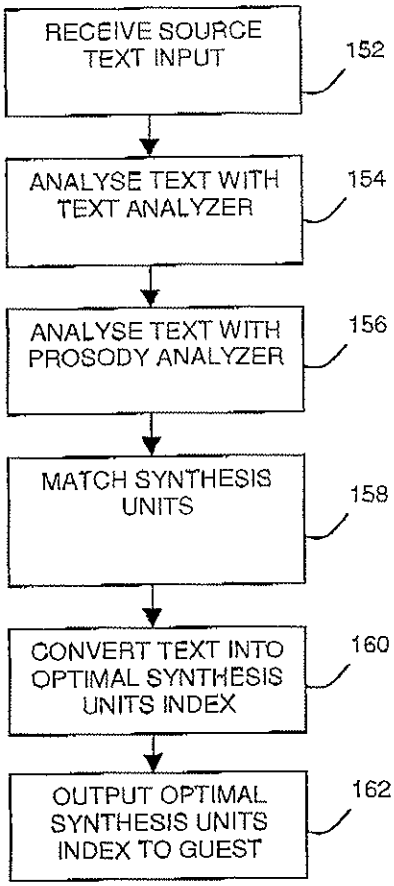

RECEIVE SOURCE TEXT INPUT
152
ANALYSE TEXT WITH TEXT ANALYZER
154
ANALYSE TEXT WITH PROSODY ANALYZER
156
MATCH SYNTHESIS UNITS
158
CONVERT TEXT INTO OPTIMAL SYNTHESIS UNITS INDEX
160
OUTPUT OPTIMAL SYNTHESIS UNITS INDEX TO GUEST
162
150

FIG. 5

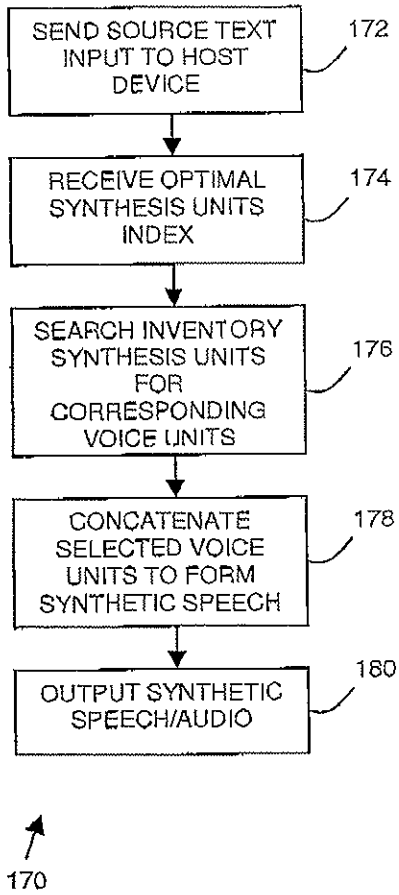

SEND SOURCE TEXT INPUT TO HOST DEVICE
172
RECEIVE OPTIMAL SYNTHESIS UNITS INDEX
174
SEARCH INVENTORY SYNTHESIS UNITS FOR CORRESPONDING VOICE UNITS
176
CONCATENATE SELECTED VOICE UNITS TO FORM SYNTHETIC SPEECH
178
OUTPUT SYNTHETIC SPEECH/AUDIO
180
170

FIG. 6

From: Lee Kim Soon <klmsoon@activemedia.com.sg>
To: William Pan; Chong Louis
Subject: Course schedule
Date: Wednesday, August 25, 2004 7:23 PM

Hi there,

Attached is the scheduled courses for the 1st half year for your reference. We do conduct trainings on Data Communications and Networking, but scheduled at 2nd half of the year. Prices shown are before GST.

Thank you for your time, I hope you'll be attending anyone of our course soon.

Best Regards,

Kim Soon

FIG. 7

Male voice: This email is from,
Female voice: Lee Kim Soon

Male voice: this email was sent to
Female voice: William Pan; Chong Louis

Male voice: the email title is
Female voice: Course schedule

Male voice: this email was sent on
Female voice: Wednesday, August 25, 2004 7:23 PM

Female voice: ...

FIG. 8