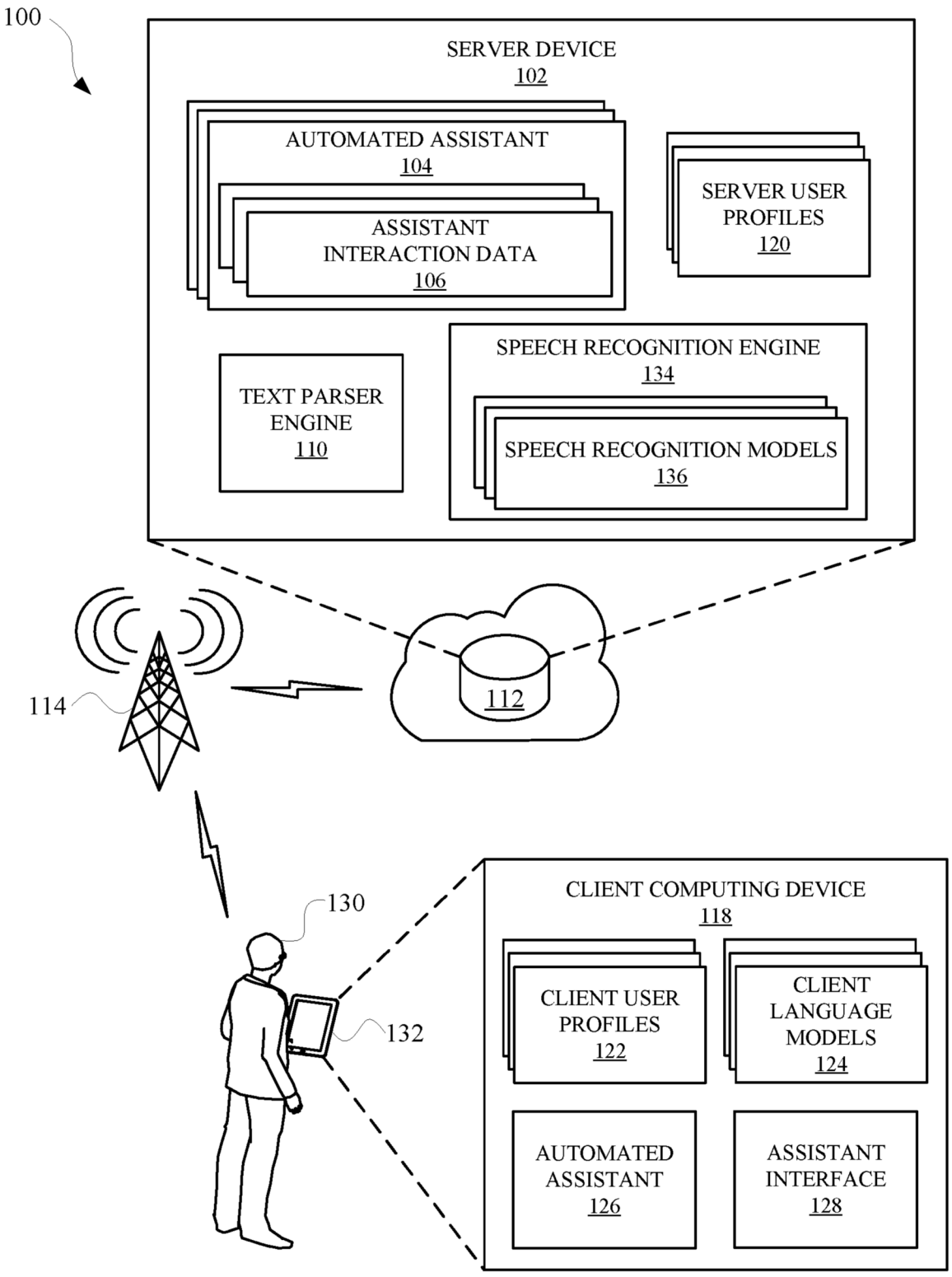
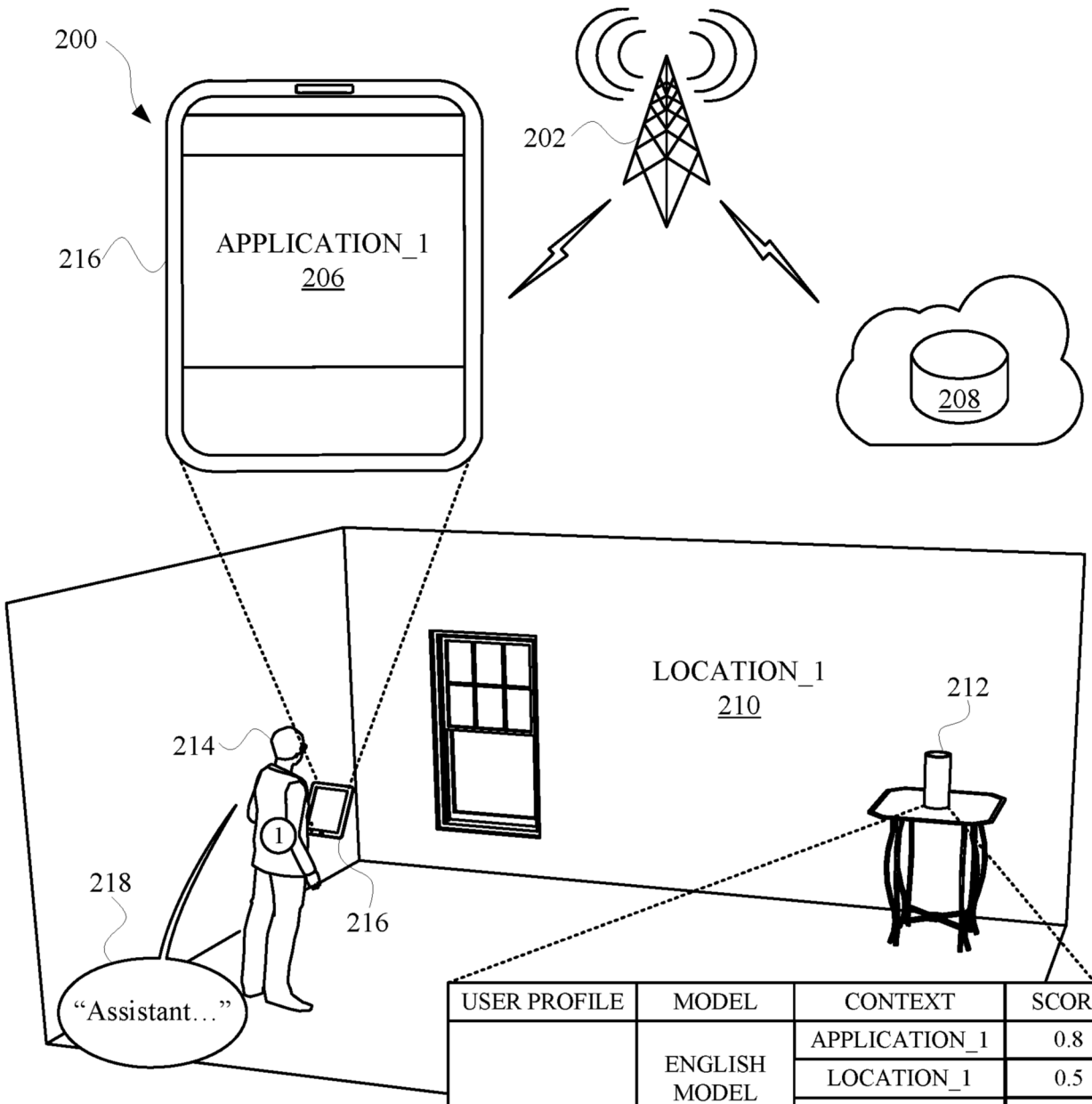

100
SERVER DEVICE
102
AUTOMATED ASSISTANT
104
ASSISTANT
INTERACTION DATA
106
SERVER USER
PROFILES
120
SPEECH RECOGNITION ENGINE
134
SPEECH RECOGNITION MODELS
136
TEXT PARSER
ENGINE
110
112
114
130
132
CLIENT COMPUTING DEVICE
118
CLIENT USER
PROFILES
122
CLIENT
LANGUAGE
MODELS
124
AUTOMATED
ASSISTANT
126
ASSISTANT
INTERFACE
128

FIG. 1



220

USER PROFILE	MODEL	CONTEXT	SCORE
1	ENGLISH MODEL	APPLICATION_1	0.8
		LOCATION_1	0.5
		CONTACT_1	0.9
	FRENCH MODEL	APPLICATION_2	0.6
		LOCATION_2	0.6
		CONTACT_2	0.3
2	ENGLISH MODEL	APPLICATION_1	0.6
		LOCATION_1	0.5
		CONTACT_1	0.4
	SPANISH MODEL	APPLICATION_2	0.5
		LOCATION_2	0.8
		CONTACT_2	0.8
…	…	…	…

FIG. 2

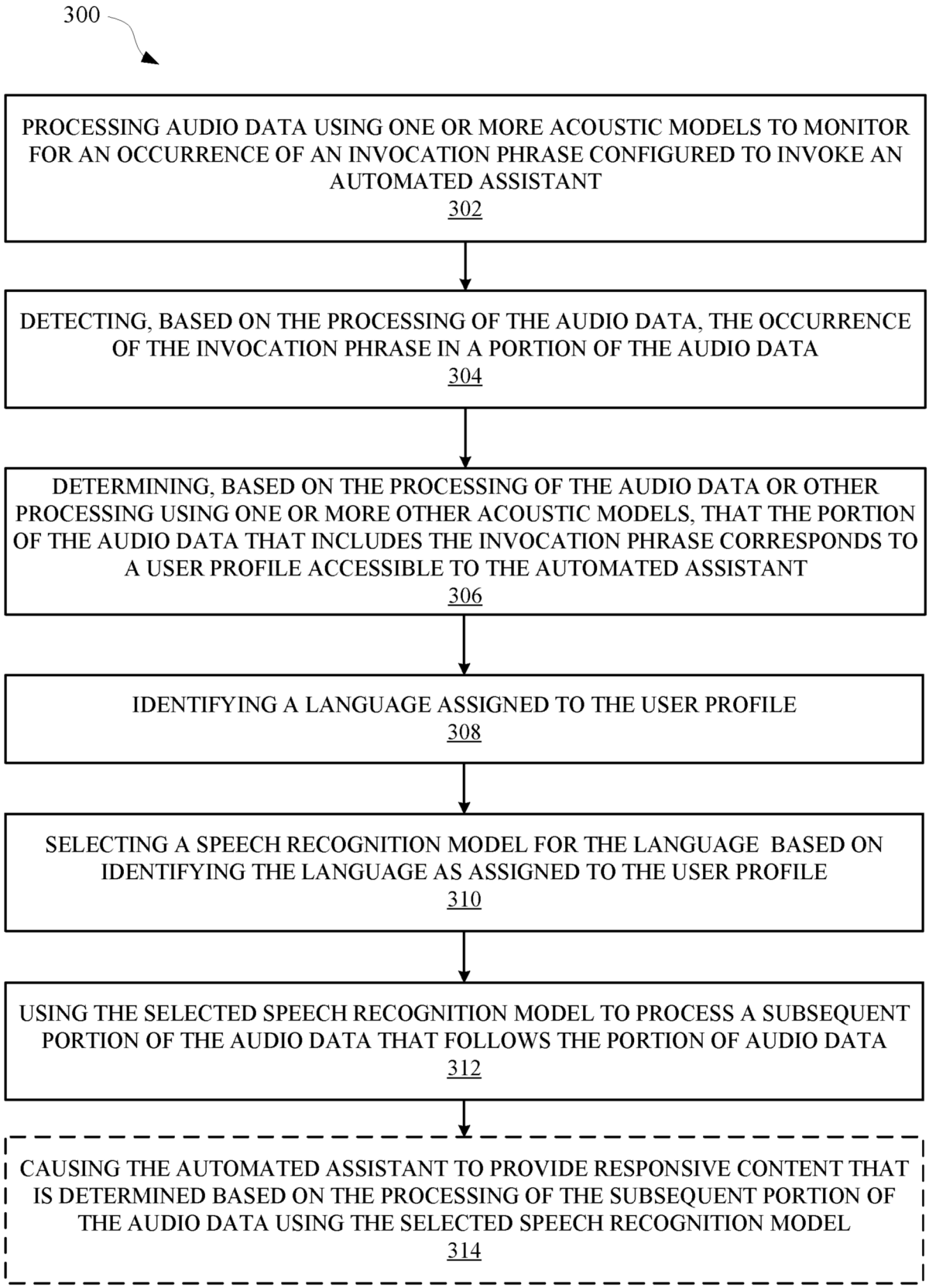

300
PROCESSING AUDIO DATA USING ONE OR MORE ACOUSTIC MODELS TO MONITOR FOR AN OCCURRENCE OF AN INVOCATION PHRASE CONFIGURED TO INVOKE AN AUTOMATED ASSISTANT
302
DETECTING, BASED ON THE PROCESSING OF THE AUDIO DATA, THE OCCURRENCE OF THE INVOCATION PHRASE IN A PORTION OF THE AUDIO DATA
304
DETERMINING, BASED ON THE PROCESSING OF THE AUDIO DATA OR OTHER PROCESSING USING ONE OR MORE OTHER ACOUSTIC MODELS, THAT THE PORTION OF THE AUDIO DATA THAT INCLUDES THE INVOCATION PHRASE CORRESPONDS TO A USER PROFILE ACCESSIBLE TO THE AUTOMATED ASSISTANT
306
IDENTIFYING A LANGUAGE ASSIGNED TO THE USER PROFILE
308
SELECTING A SPEECH RECOGNITION MODEL FOR THE LANGUAGE BASED ON IDENTIFYING THE LANGUAGE AS ASSIGNED TO THE USER PROFILE
310
USING THE SELECTED SPEECH RECOGNITION MODEL TO PROCESS A SUBSEQUENT PORTION OF THE AUDIO DATA THAT FOLLOWS THE PORTION OF AUDIO DATA
312
CAUSING THE AUTOMATED ASSISTANT TO PROVIDE RESPONSIVE CONTENT THAT IS DETERMINED BASED ON THE PROCESSING OF THE SUBSEQUENT PORTION OF THE AUDIO DATA USING THE SELECTED SPEECH RECOGNITION MODEL
314

FIG. 3

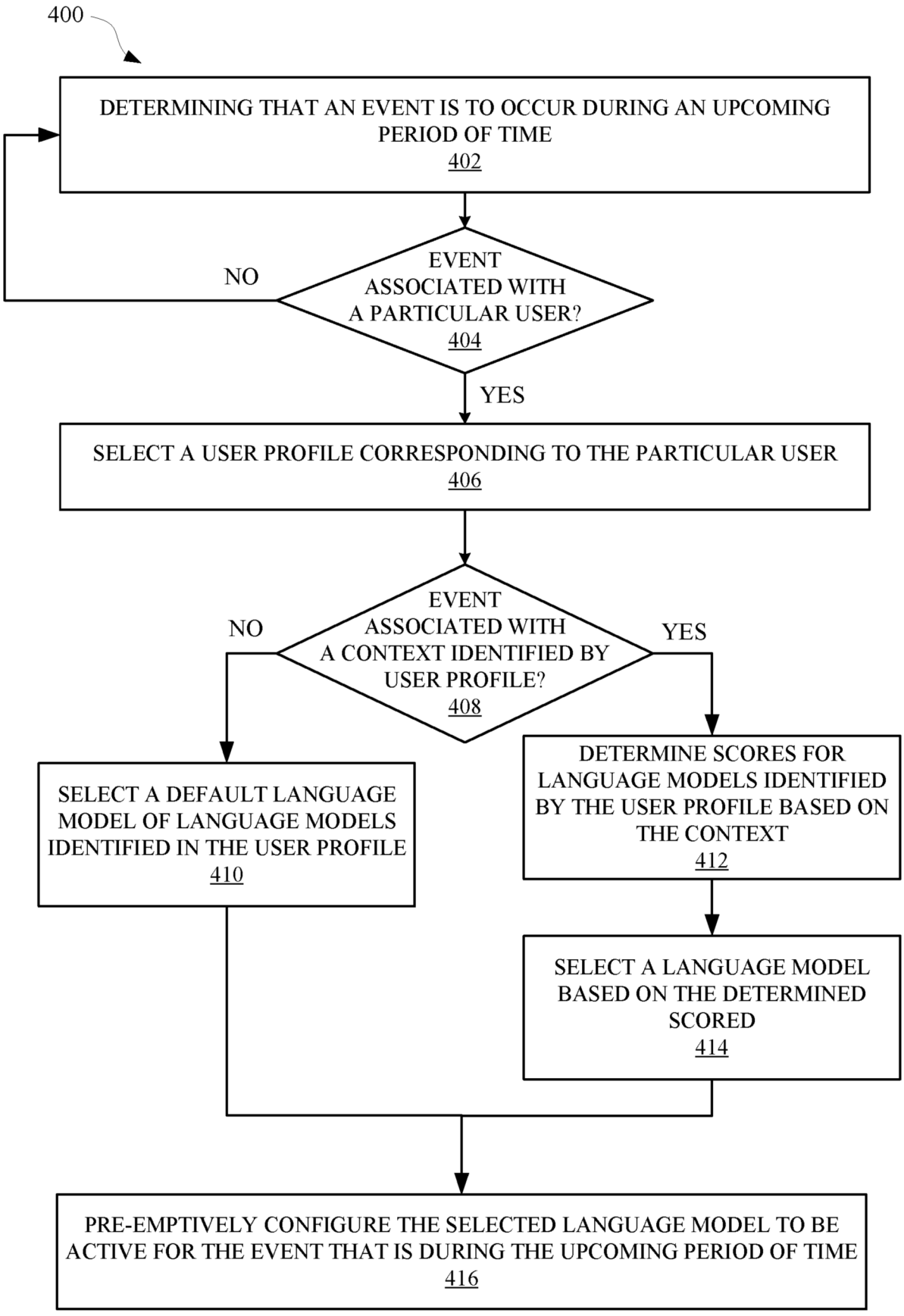

400
DETERMINING THAT AN EVENT IS TO OCCUR DURING AN UPCOMING PERIOD OF TIME
402
EVENT ASSOCIATED WITH A PARTICULAR USER?
404
NO
YES
SELECT A USER PROFILE CORRESPONDING TO THE PARTICULAR USER
406
EVENT ASSOCIATED WITH A CONTEXT IDENTIFIED BY USER PROFILE?
408
NO
YES
SELECT A DEFAULT LANGUAGE MODEL OF LANGUAGE MODELS IDENTIFIED IN THE USER PROFILE
410
DETERMINE SCORES FOR LANGUAGE MODELS IDENTIFIED BY THE USER PROFILE BASED ON THE CONTEXT
412
SELECT A LANGUAGE MODEL BASED ON THE DETERMINED SCORED
414
PRE-EMPTIVELY CONFIGURE THE SELECTED LANGUAGE MODEL TO BE ACTIVE FOR THE EVENT THAT IS DURING THE UPCOMING PERIOD OF TIME
416

FIG. 4

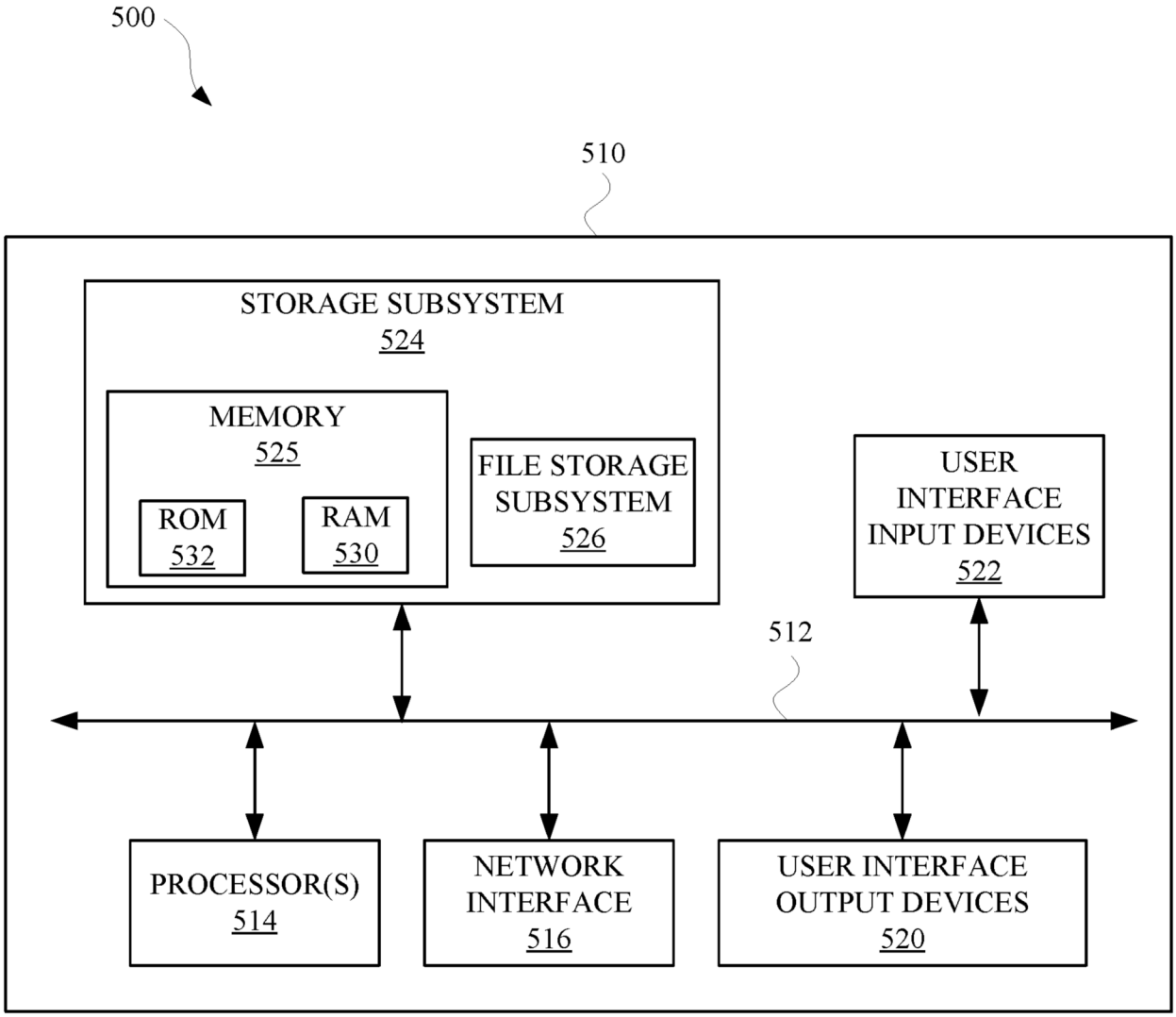

500
510
STORAGE SUBSYSTEM
524
MEMORY
525
ROM
532
RAM
530
FILE STORAGE
SUBSYSTEM
526
USER
INTERFACE
INPUT DEVICES
522
512
PROCESSOR(S)
514
NETWORK
INTERFACE
516
USER INTERFACE
OUTPUT DEVICES
520

FIG. 5