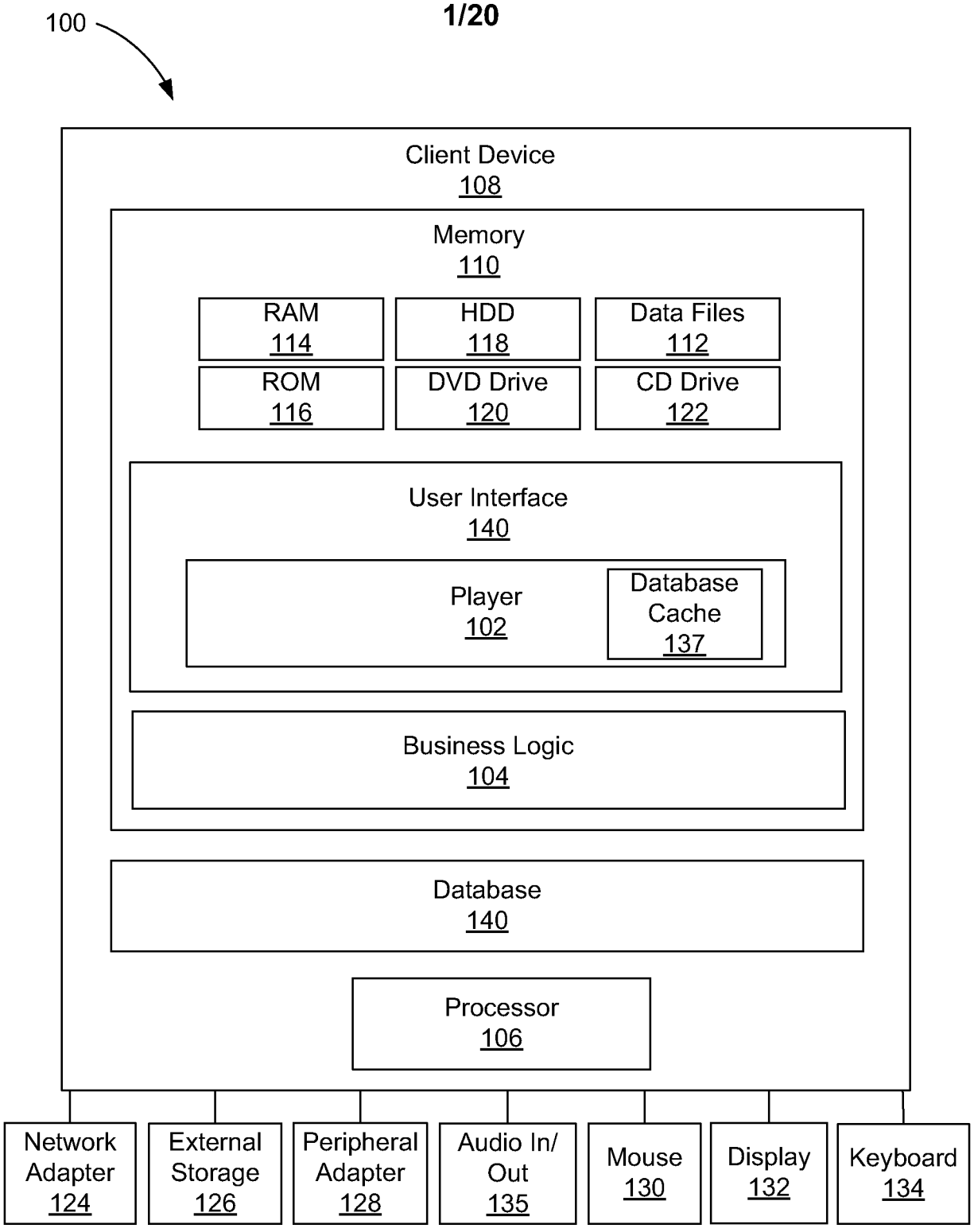

100
Client Device
108
Memory
110
RAM
114
HDD
118
Data Files
112
ROM
116
DVD Drive
120
CD Drive
122
User Interface
140
Player
102
Database
Cache
137
Business Logic
104
Database
140
Processor
106
Network
Adapter
124
External
Storage
126
Peripheral
Adapter
128
Audio In/
Out
135
Mouse
130
Display
132
Keyboard
134

Fig. 1A

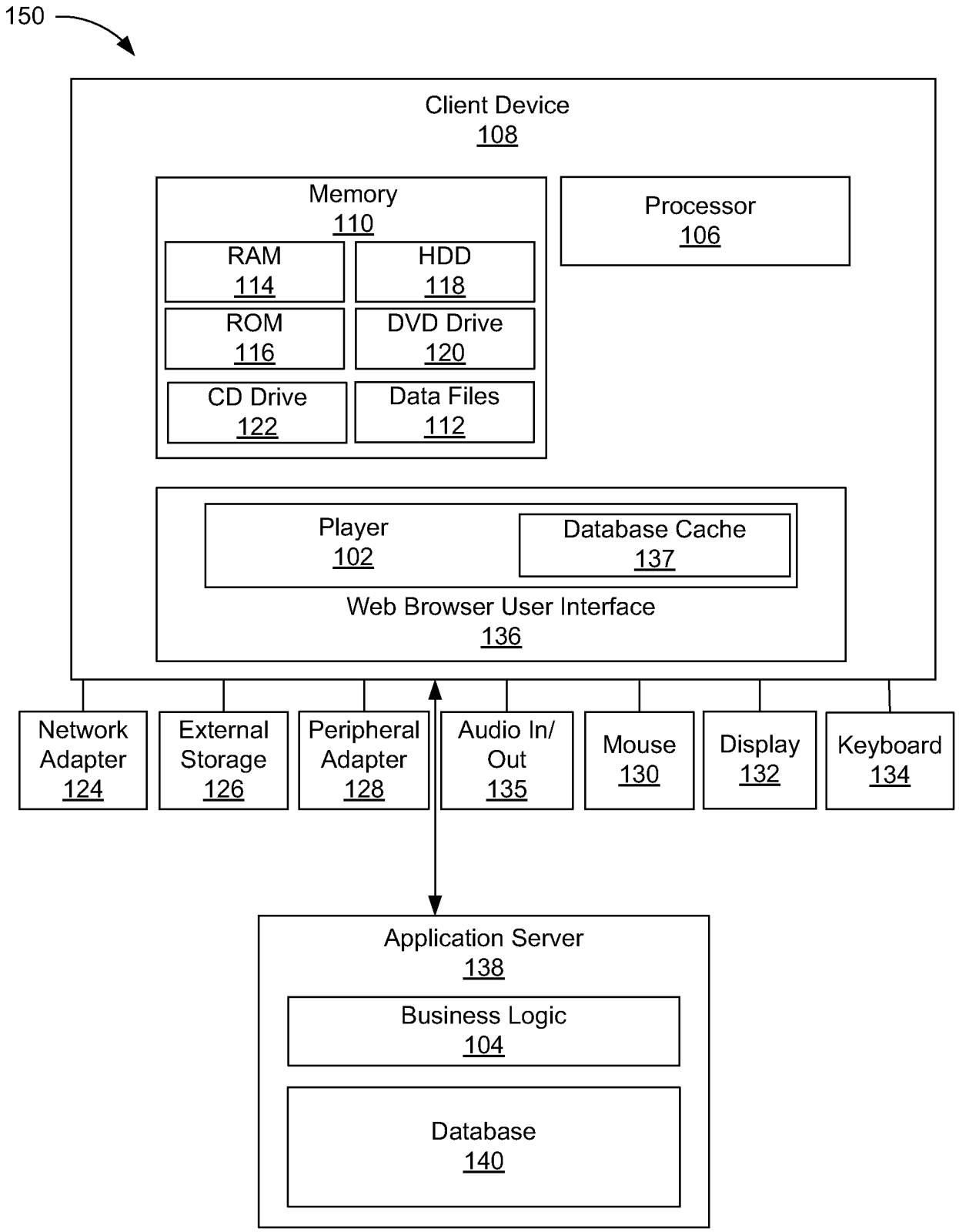

150
Client Device
108
Memory
110
RAM
114
HDD
118
ROM
116
DVD Drive
120
CD Drive
122
Data Files
112
Processor
106
Player
102
Database Cache
137
Web Browser User Interface
136
Network Adapter
124
External Storage
126
Peripheral Adapter
128
Audio In/ Out
135
Mouse
130
Display
132
Keyboard
134
Application Server
138
Business Logic
104
Database
140

Fig. 1B

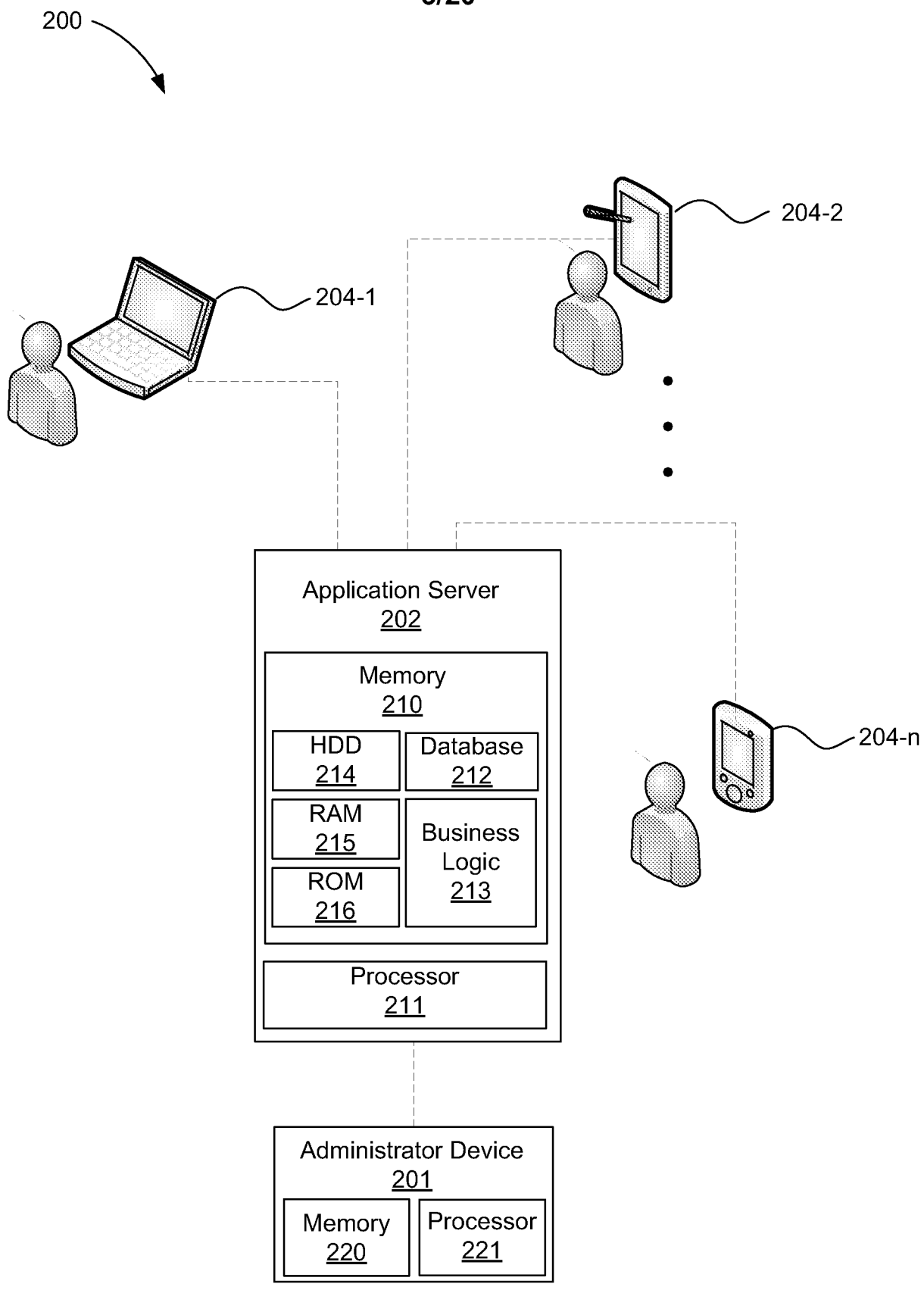

200
204-1
204-2
204-n
Application Server
202
Memory
210
HDD
214
Database
212
RAM
215
Business
Logic
213
ROM
216
Processor
211
Administrator Device
201
Memory
220
Processor
221

Fig. 2

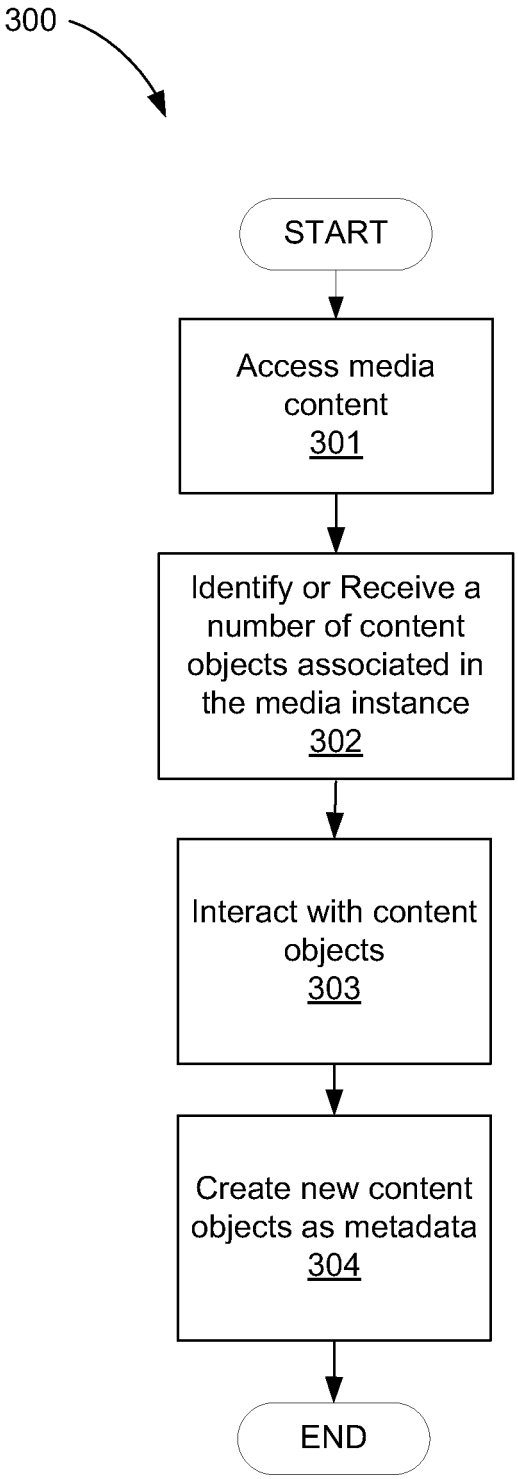

300
START
Access media content 301
Identify or Receive a number of content objects associated in the media instance 302
Interact with content objects 303
Create new content objects as metadata 304
END

Fig. 3

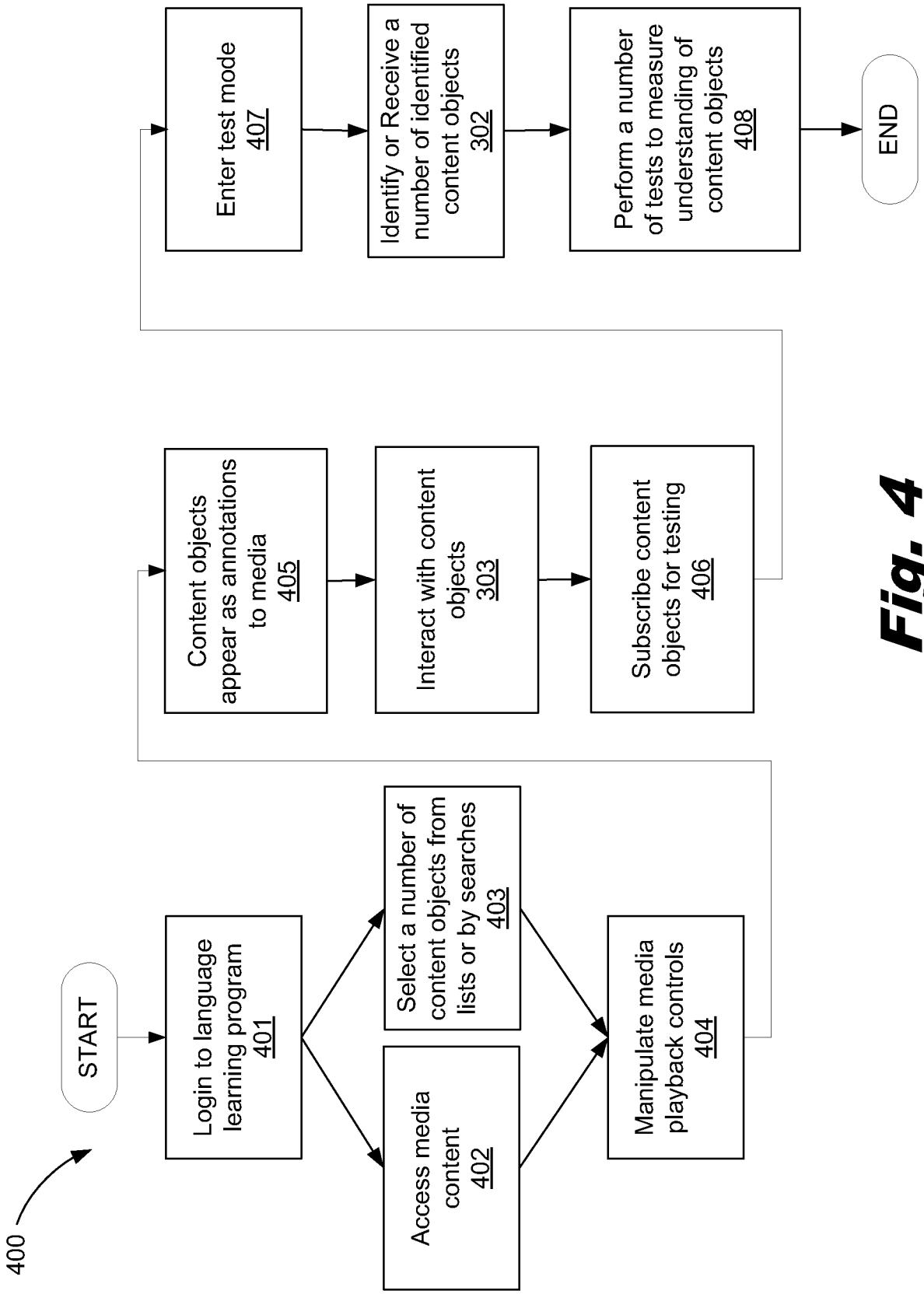

400
START
Login to language learning program 401
Access media content 402
Select a number of content objects from lists or by searches 403
Manipulate media playback controls 404
Content objects appear as annotations to media 405
Interact with content objects 303
Subscribe content objects for testing 406
Enter test mode 407
Identify or Receive a number of identified content objects 302
Perform a number of tests to measure understanding of content objects 408
END

Fig. 4

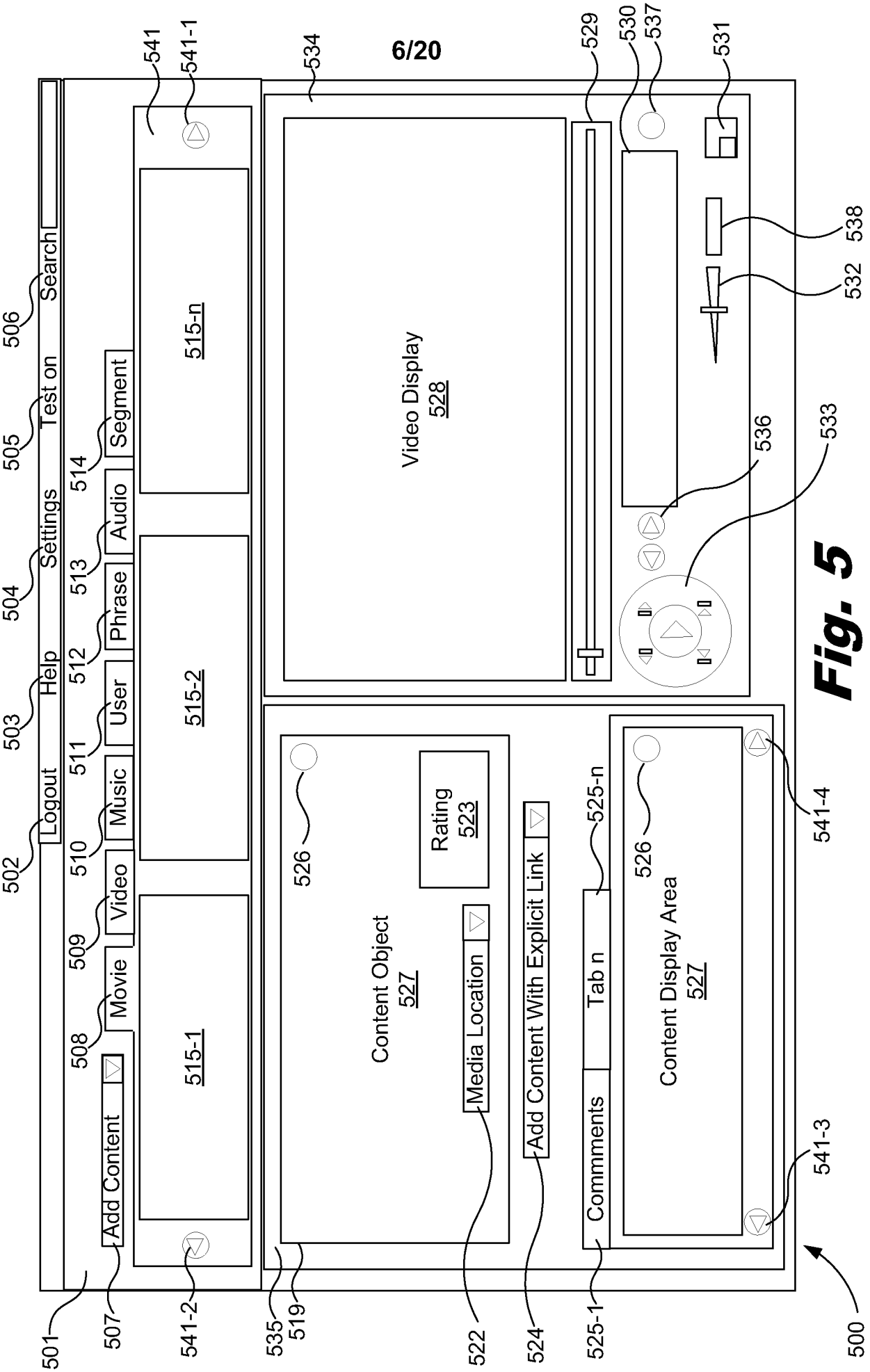

Logout
Help
Settings
Test on
Search
Add Content
Movie
Video
Music
User
Phrase
Audio
Segment
515-1
515-2
515-n
Video Display
528
Content Object
527
Media Location
Rating
523
Add Content With Explicit Link
Comments
Tab n
Content Display Area
527
501
502
503
504
505
506
507
508
509
510
511
512
513
514
519
522
524
525-1
525-n
526
529
530
531
532
533
534
535
536
537
538
541
541-1
541-2
541-3
541-4
500

Fig. 5

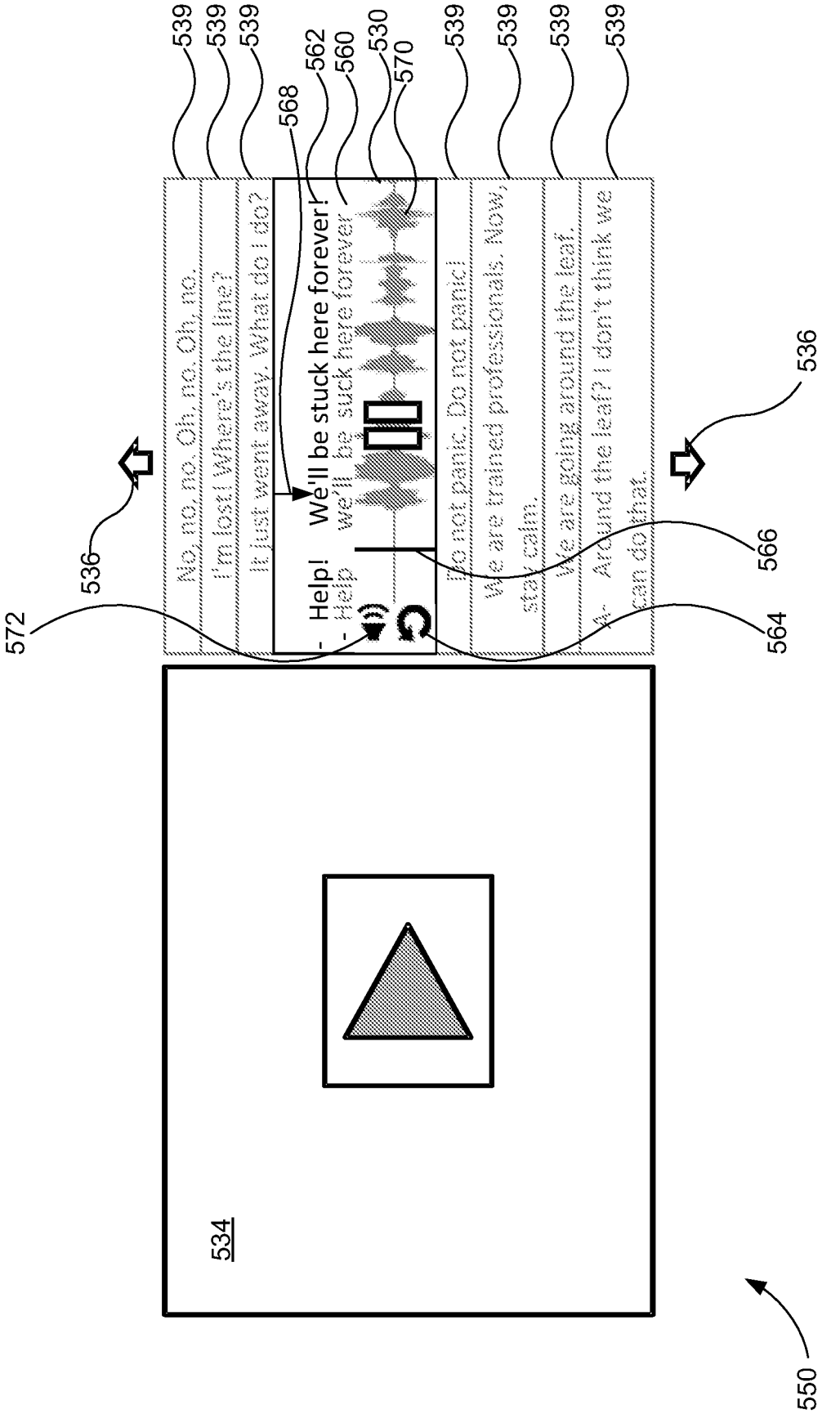

539
539
539
568
562
560
530
570
539
539
539
539
No, no, no. Oh, no. Oh, no.
I'm lost! Where's the line?
It just went away. What do I do?
- Help! We'll be stuck here forever!
- Help we'll be suck here forever
Do not panic. Do not panic!
We are trained professionals. Now,
stay calm.
We are going around the leaf.
- Around the leaf? I don't think we
can do that.
536
536
572
566
564
534
550

Fig. 5a

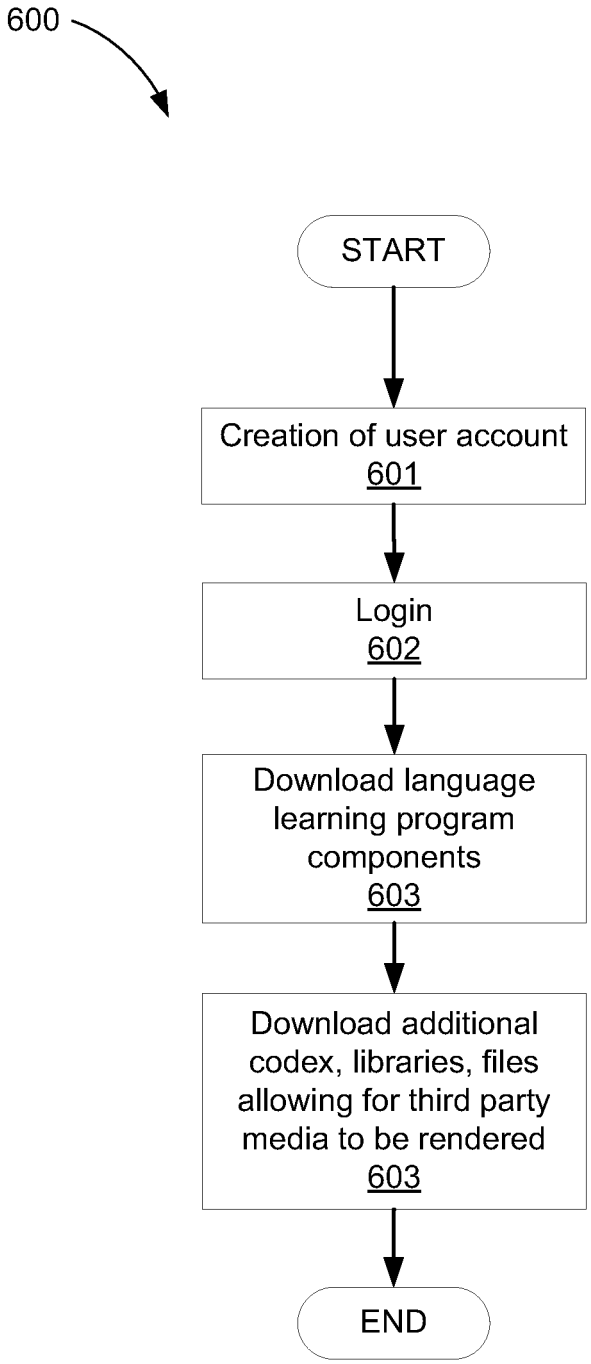

600
START
Creation of user account
601
Login
602
Download language learning program components
603
Download additional codex, libraries, files allowing for third party media to be rendered
603
END

Fig. 6

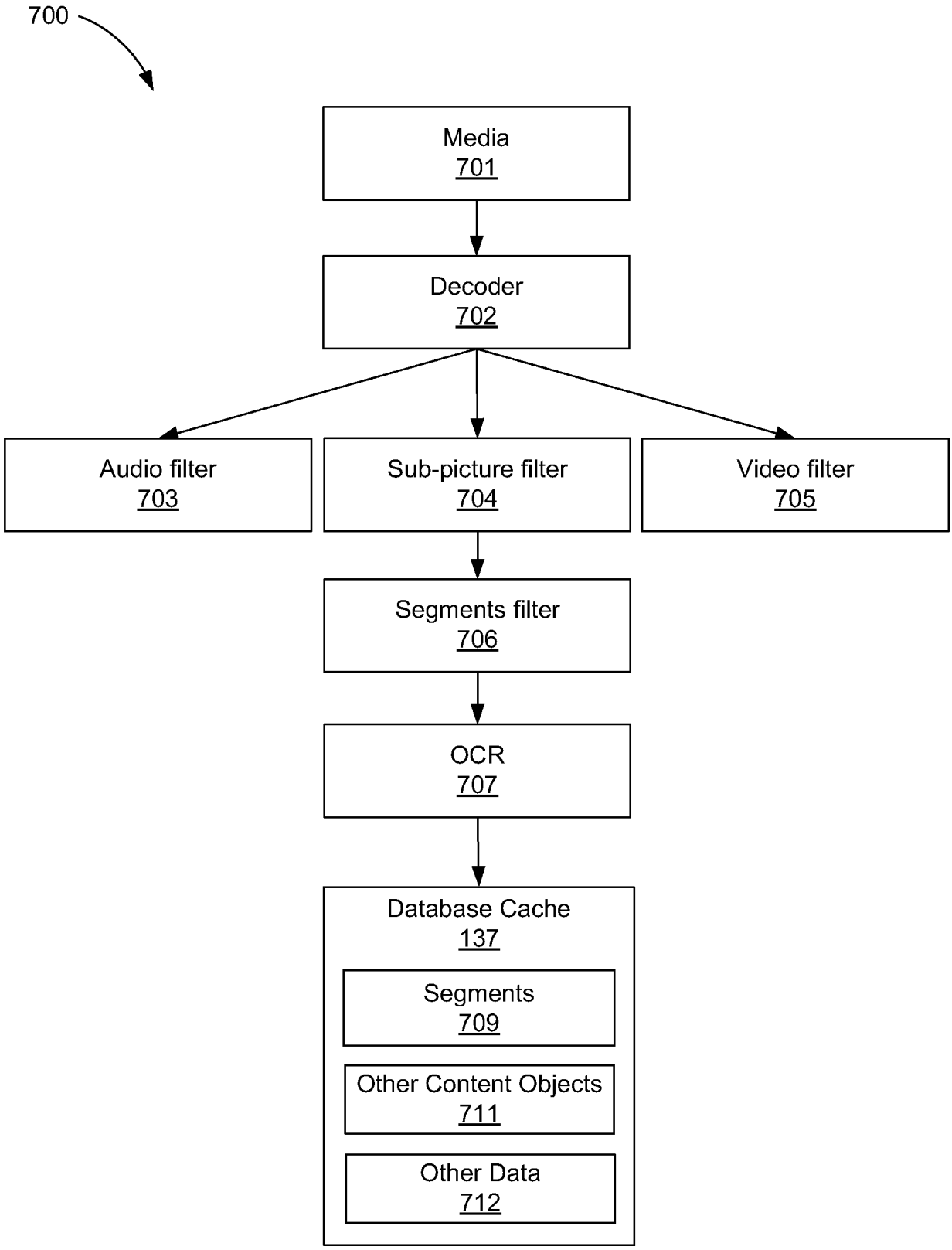

700
Media
701
Decoder
702
Audio filter
703
Sub-picture filter
704
Video filter
705
Segments filter
706
OCR
707
Database Cache
137
Segments
709
Other Content Objects
711
Other Data
712

Fig. 7

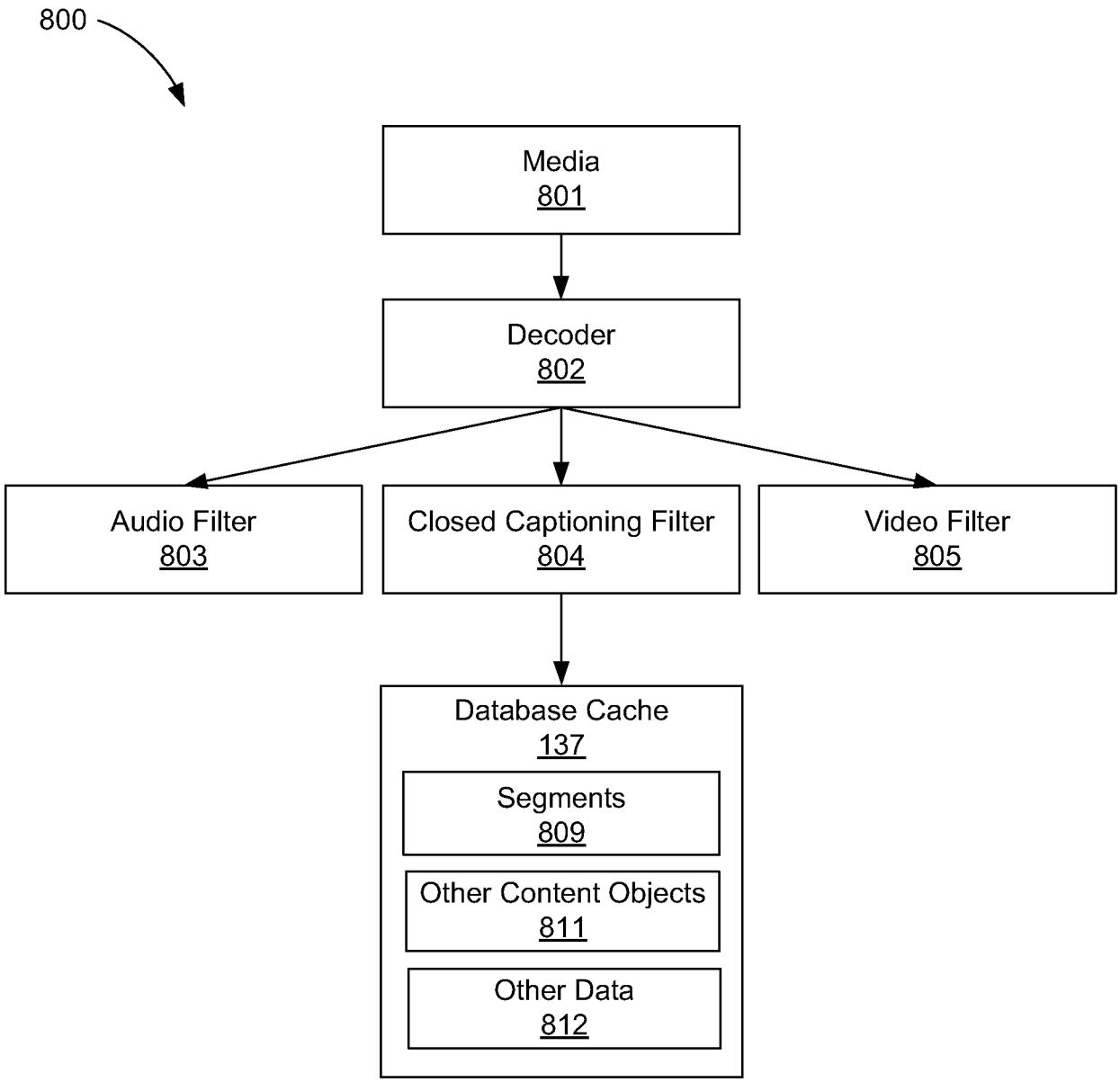

800
Media
801
Decoder
802
Audio Filter
803
Closed Captioning Filter
804
Video Filter
805
Database Cache
137
Segments
809
Other Content Objects
811
Other Data
812

Fig. 8

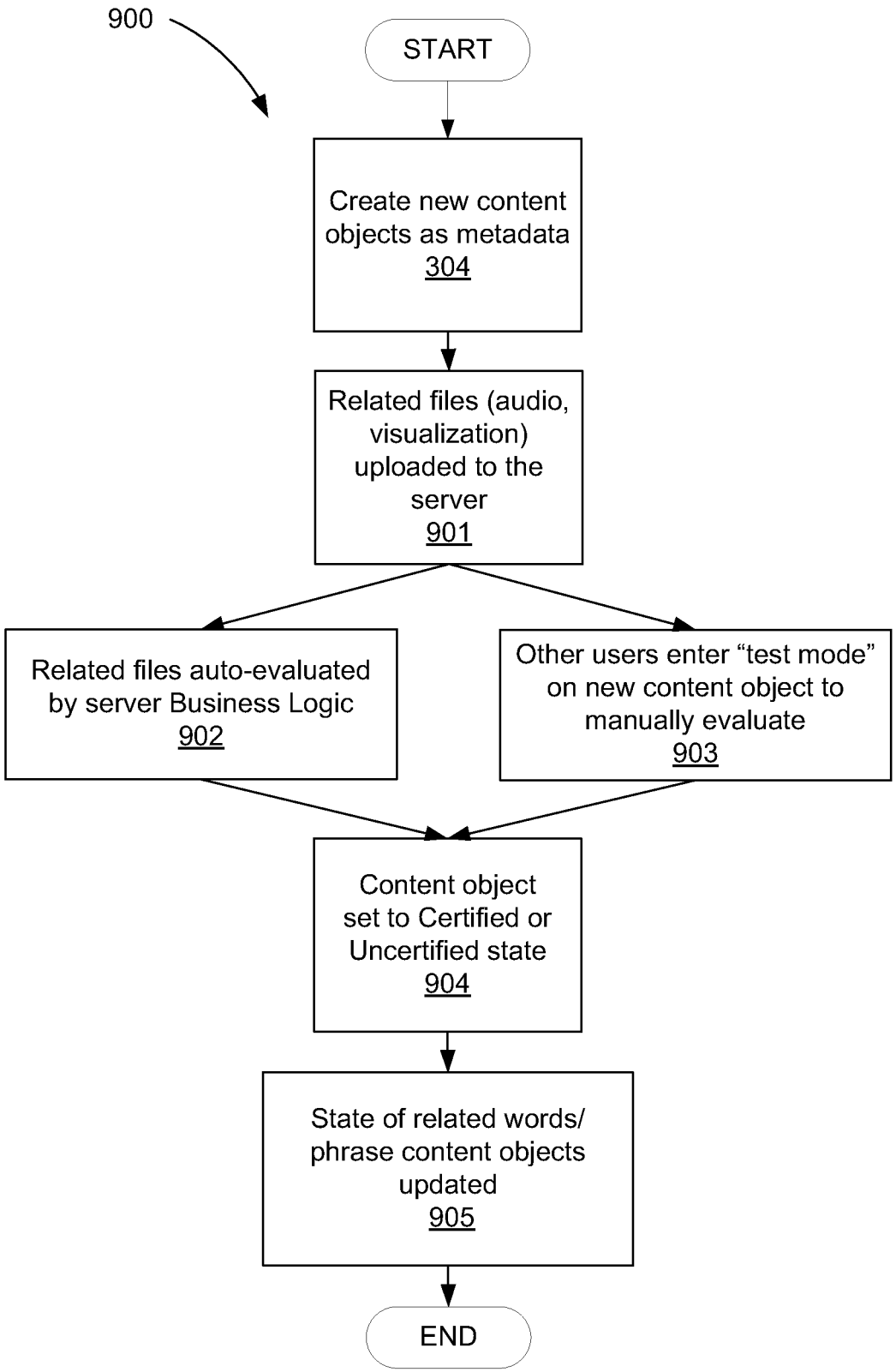

900
START
Create new content objects as metadata 304
Related files (audio, visualization) uploaded to the server 901
Related files auto-evaluated by server Business Logic 902
Other users enter “test mode” on new content object to manually evaluate 903
Content object set to Certified or Uncertified state 904
State of related words/ phrase content objects updated 905
END

Fig. 9

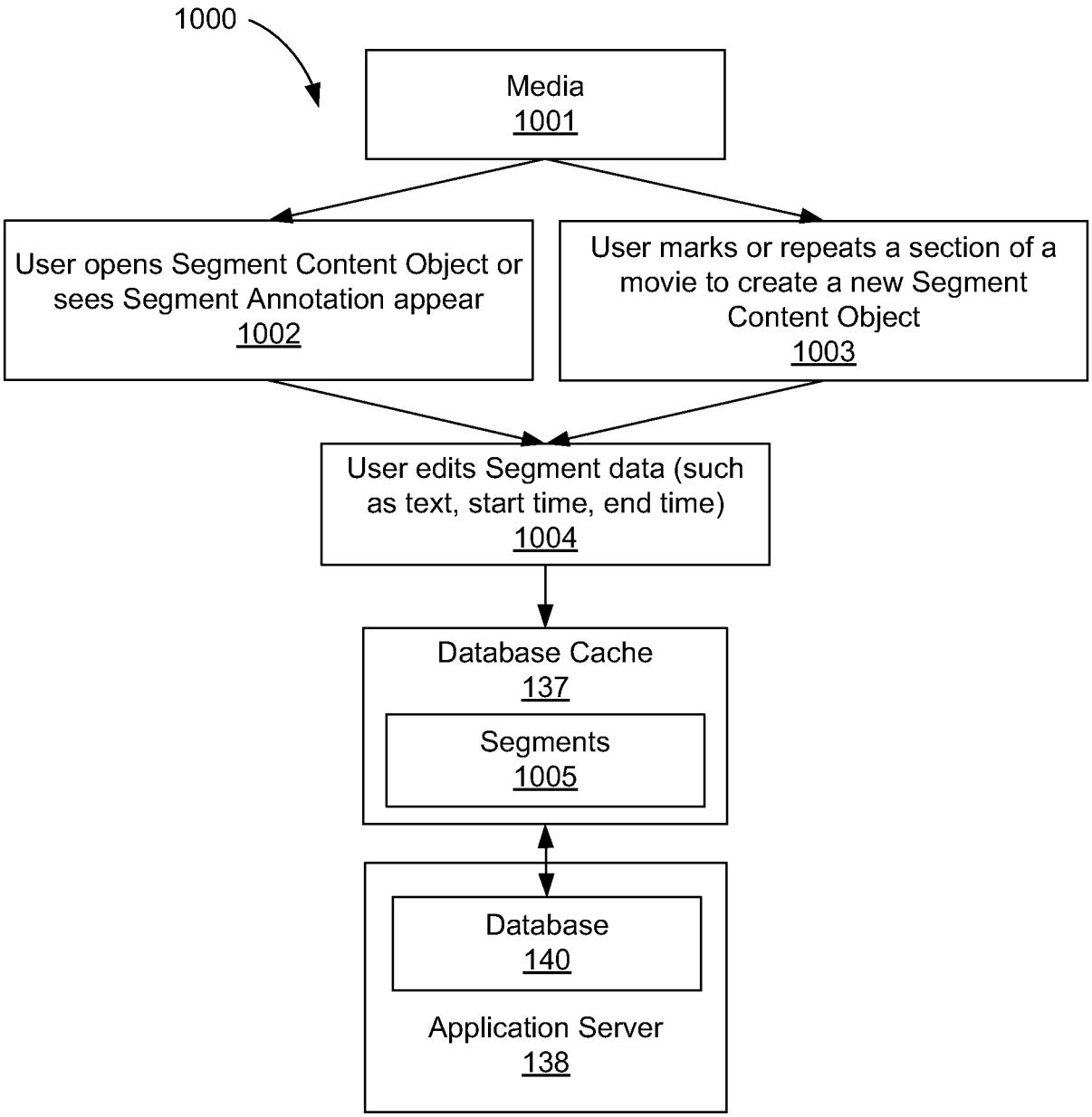

1000
Media
1001
User opens Segment Content Object or sees Segment Annotation appear
1002
User marks or repeats a section of a movie to create a new Segment Content Object
1003
User edits Segment data (such as text, start time, end time)
1004
Database Cache
137
Segments
1005
Database
140
Application Server
138

Fig. 10

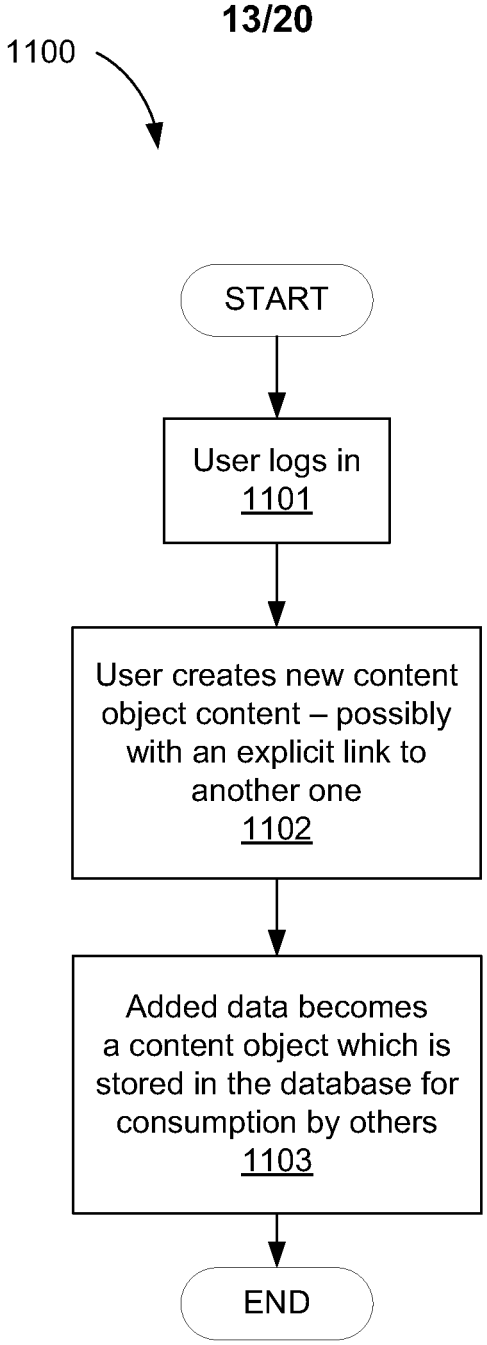

1100
START
User logs in
1101
User creates new content object content – possibly with an explicit link to another one
1102
Added data becomes a content object which is stored in the database for consumption by others
1103
END

Fig. 11

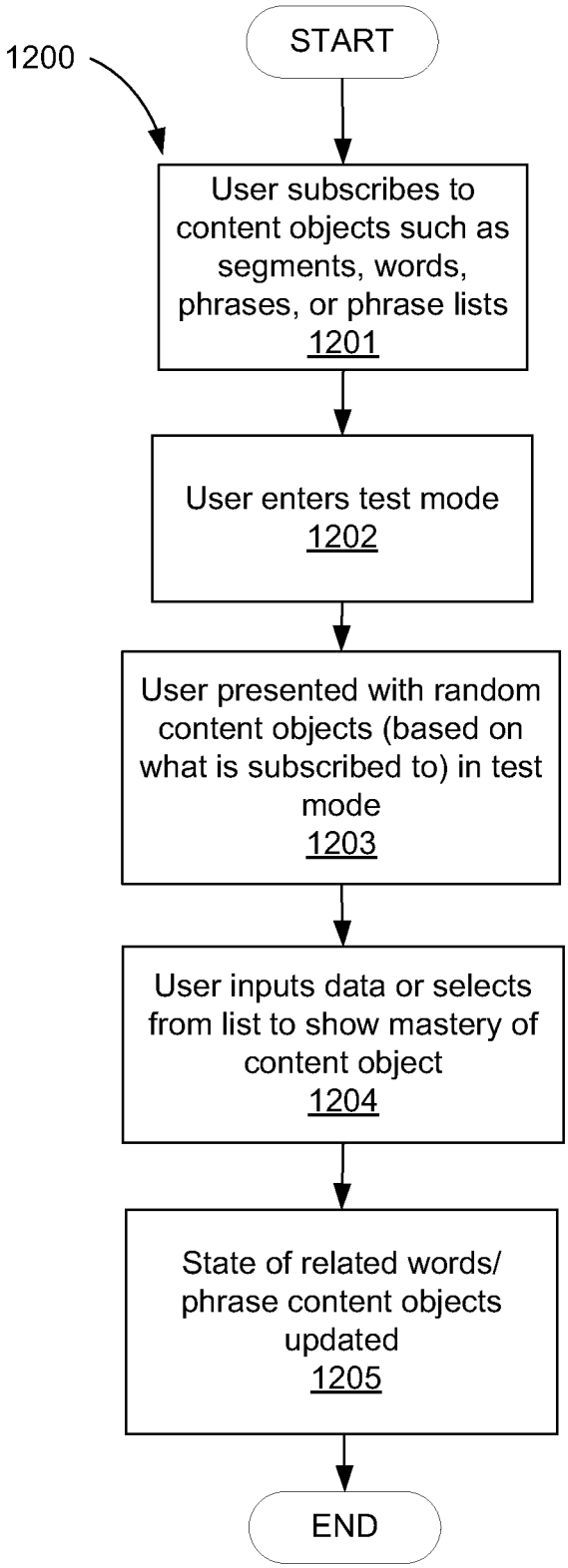

1200
START
User subscribes to content objects such as segments, words, phrases, or phrase lists
1201
User enters test mode
1202
User presented with random content objects (based on what is subscribed to) in test mode
1203
User inputs data or selects from list to show mastery of content object
1204
State of related words/ phrase content objects updated
1205
END

Fig. 12

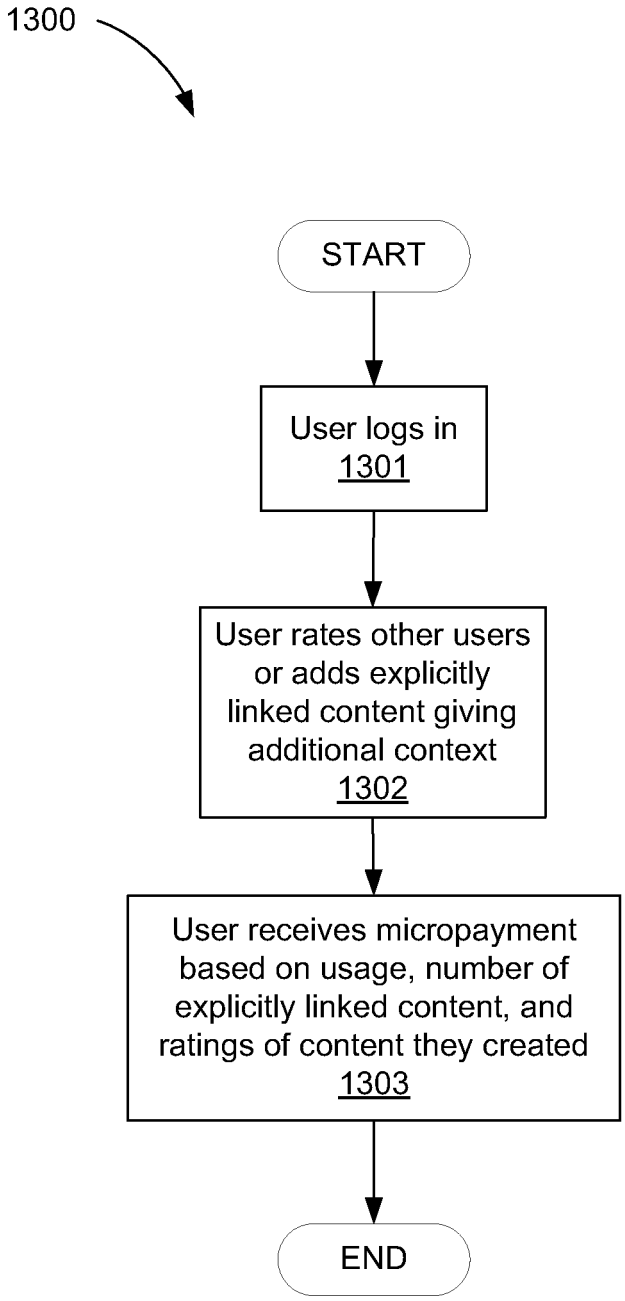

1300
START
User logs in
1301
User rates other users or adds explicitly linked content giving additional context
1302
User receives micropayment based on usage, number of explicitly linked content, and ratings of content they created
1303
END

Fig. 13

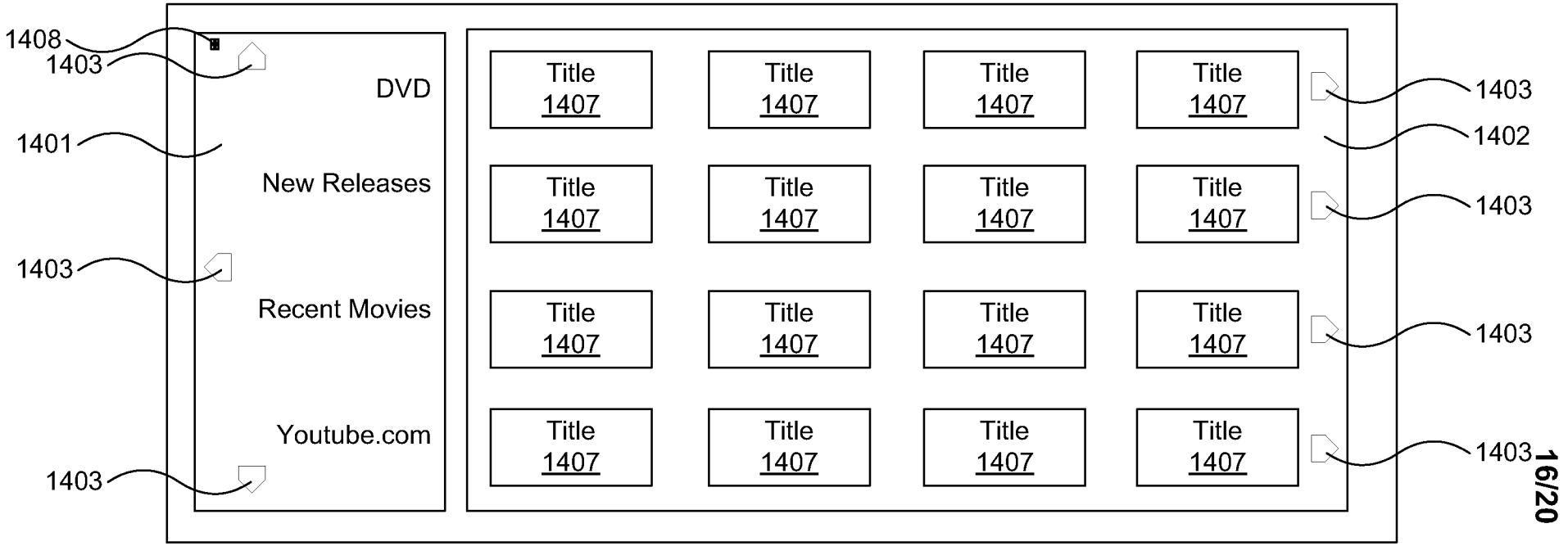


Fig. 14 A

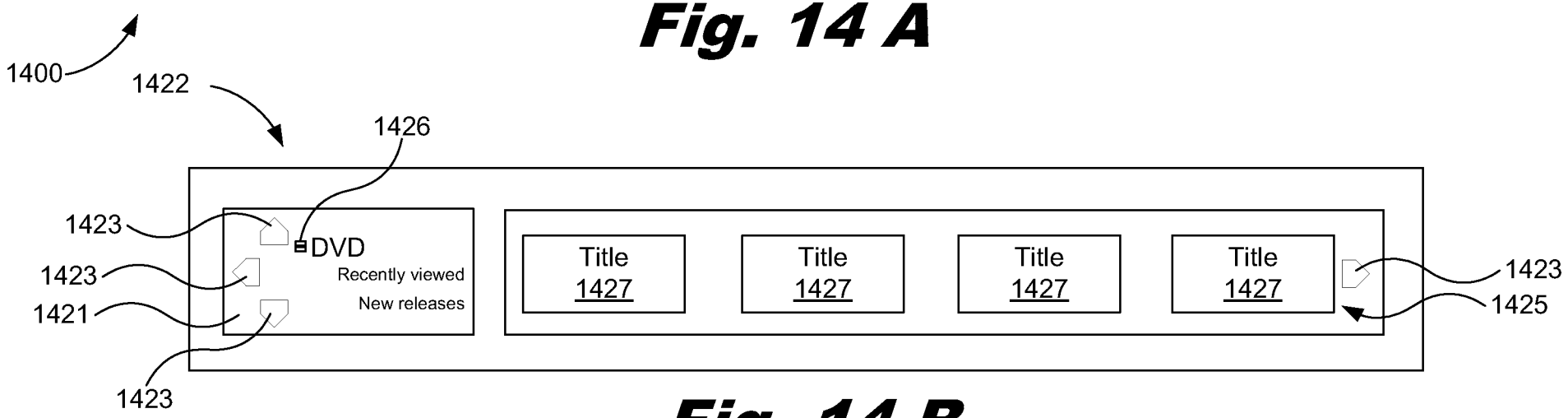


Fig. 14 B

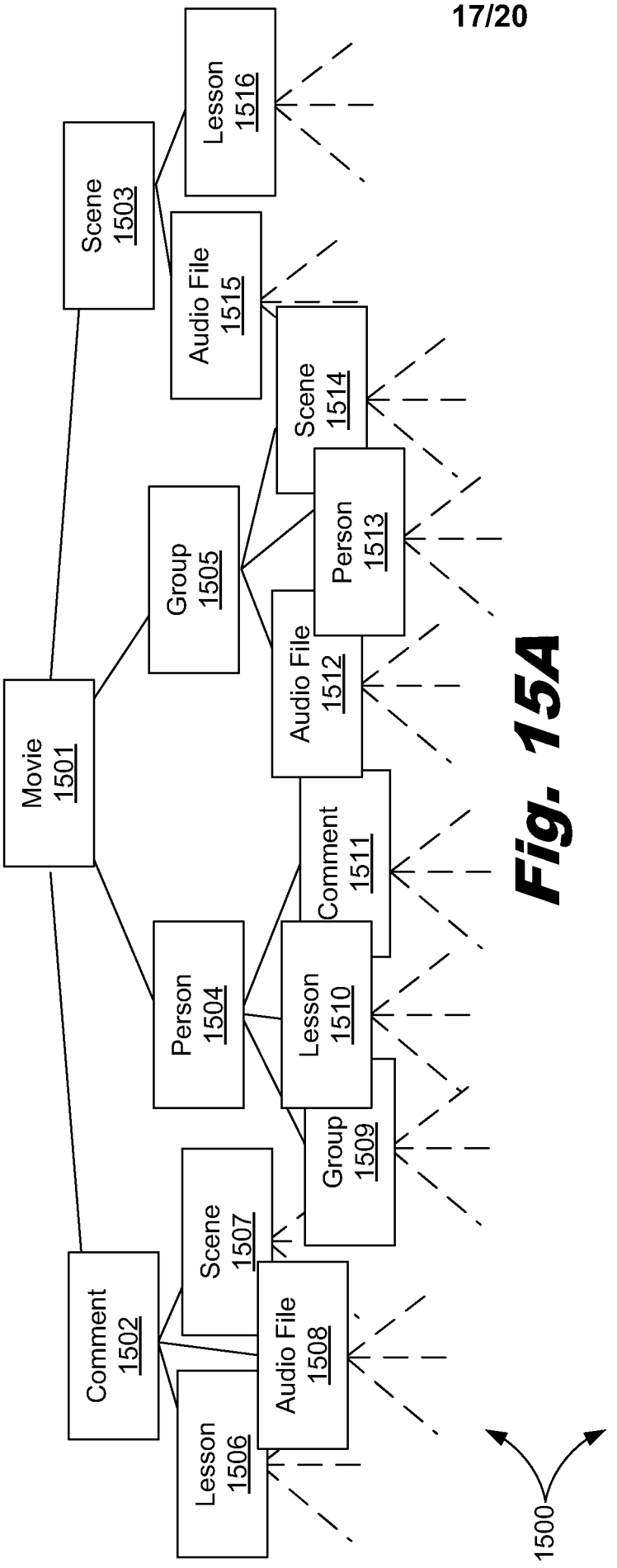


Fig. 15A

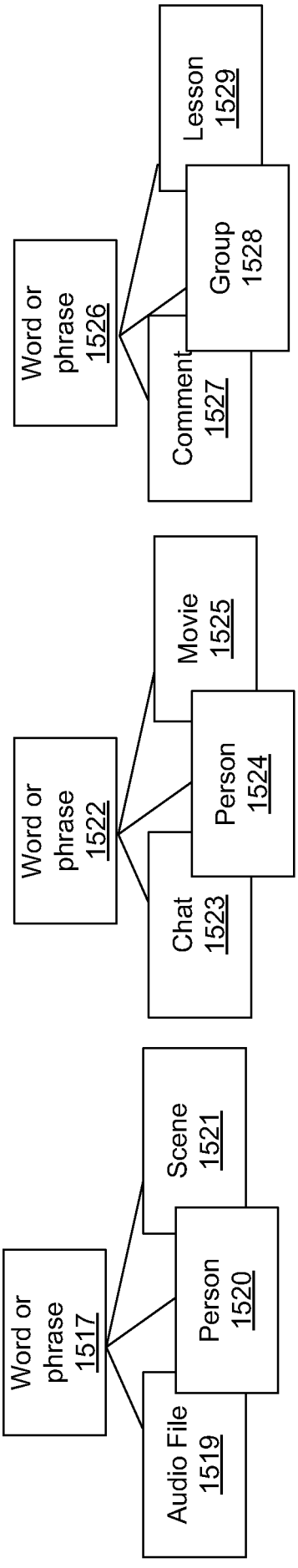


Fig. 15B

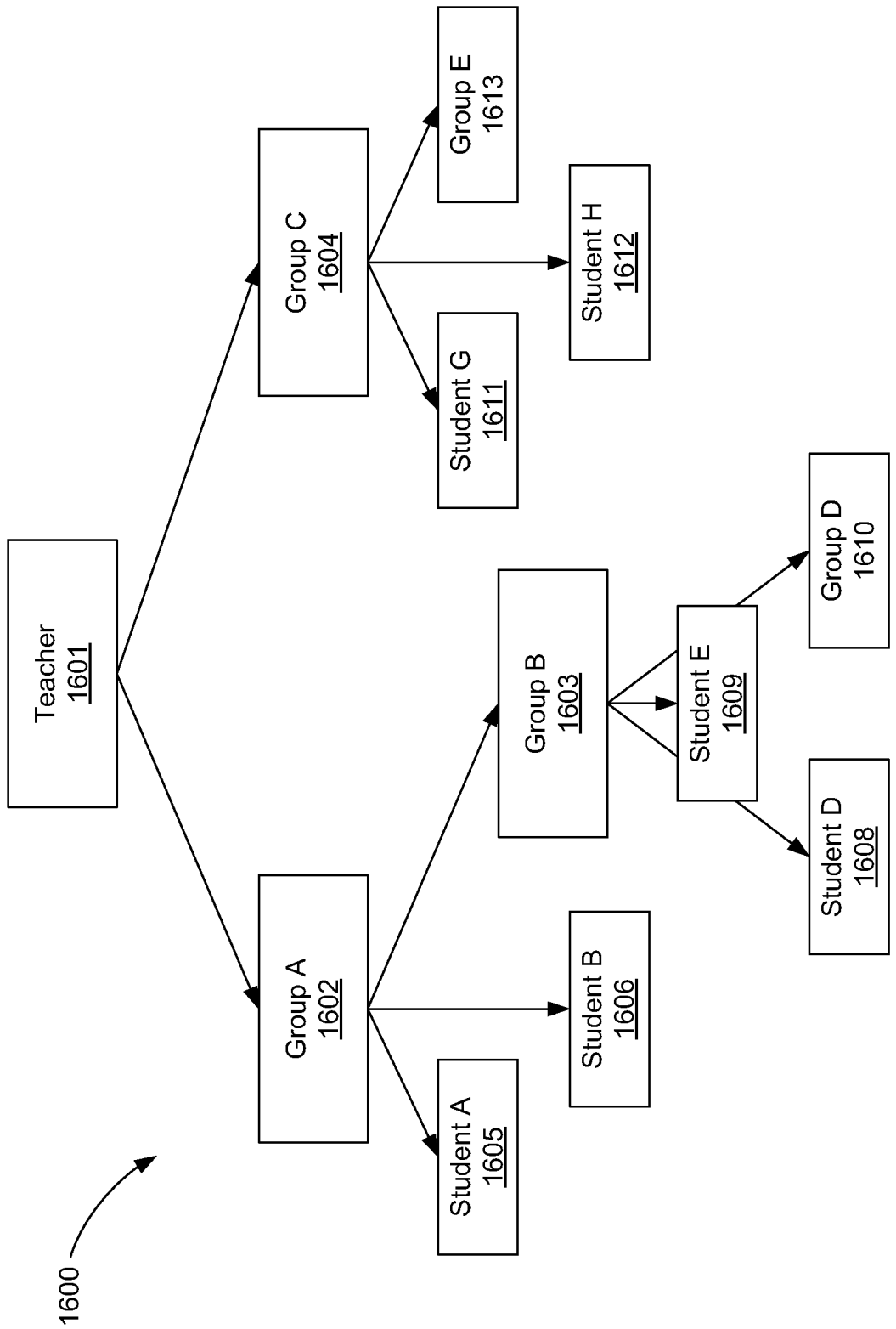

Teacher
1601
Group A
1602
Group B
1603
Group C
1604
Student A
1605
Student B
1606
Student D
1608
Group D
1610
Student E
1609
Student G
1611
Student H
1612
Group E
1613
1600

Fig. 16

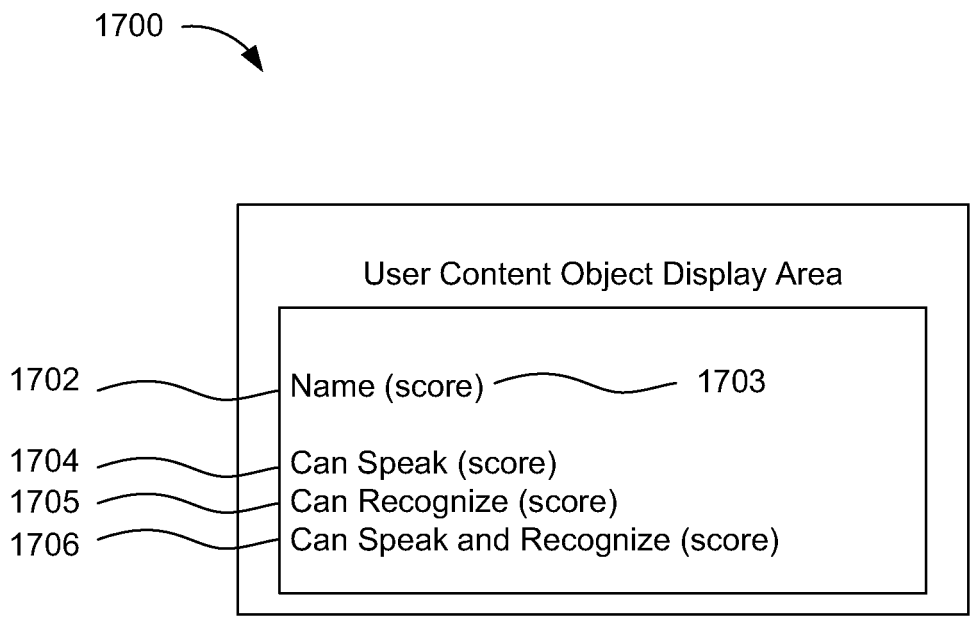

1700
User Content Object Display Area
1702
Name (score)
1703
1704
Can Speak (score)
1705
Can Recognize (score)
1706
Can Speak and Recognize (score)

Fig. 17

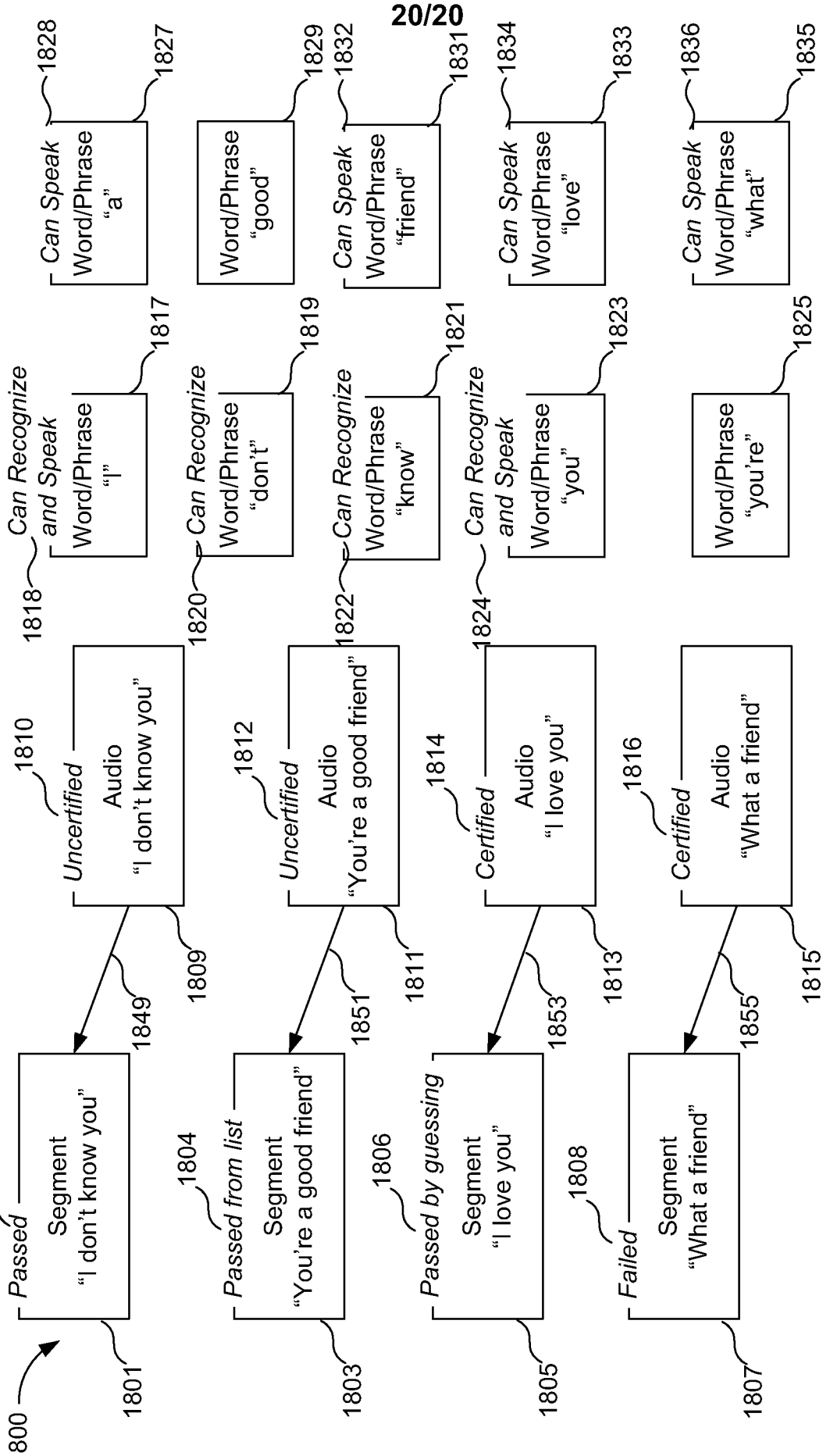

1800
1801
Passed
Segment
"I don't know you"
1802
1803
Passed from list
Segment
"You're a good friend"
1804
1805
Passed by guessing
Segment
"I love you"
1806
1807
Failed
Segment
"What a friend"
1808
1809
Uncertified
Audio
"I don't know you"
1810
1811
Uncertified
Audio
"You're a good friend"
1812
1813
Certified
Audio
"I love you"
1814
1815
Certified
Audio
"What a friend"
1816
1817
Can Recognize and Speak
Word/Phrase
"I"
1818
1819
Can Recognize
Word/Phrase
"don't"
1820
1821
Can Recognize
Word/Phrase
"know"
1822
1823
Can Recognize and Speak
Word/Phrase
"you"
1824
1825
Word/Phrase
"you're"
1827
Can Speak
Word/Phrase
"a"
1828
1829
Word/Phrase
"good"
1831
Can Speak
Word/Phrase
"friend"
1832
1833
Can Speak
Word/Phrase
"love"
1834
1835
Can Speak
Word/Phrase
"what"
1836
1849
1851
1853
1855

Fig. 18