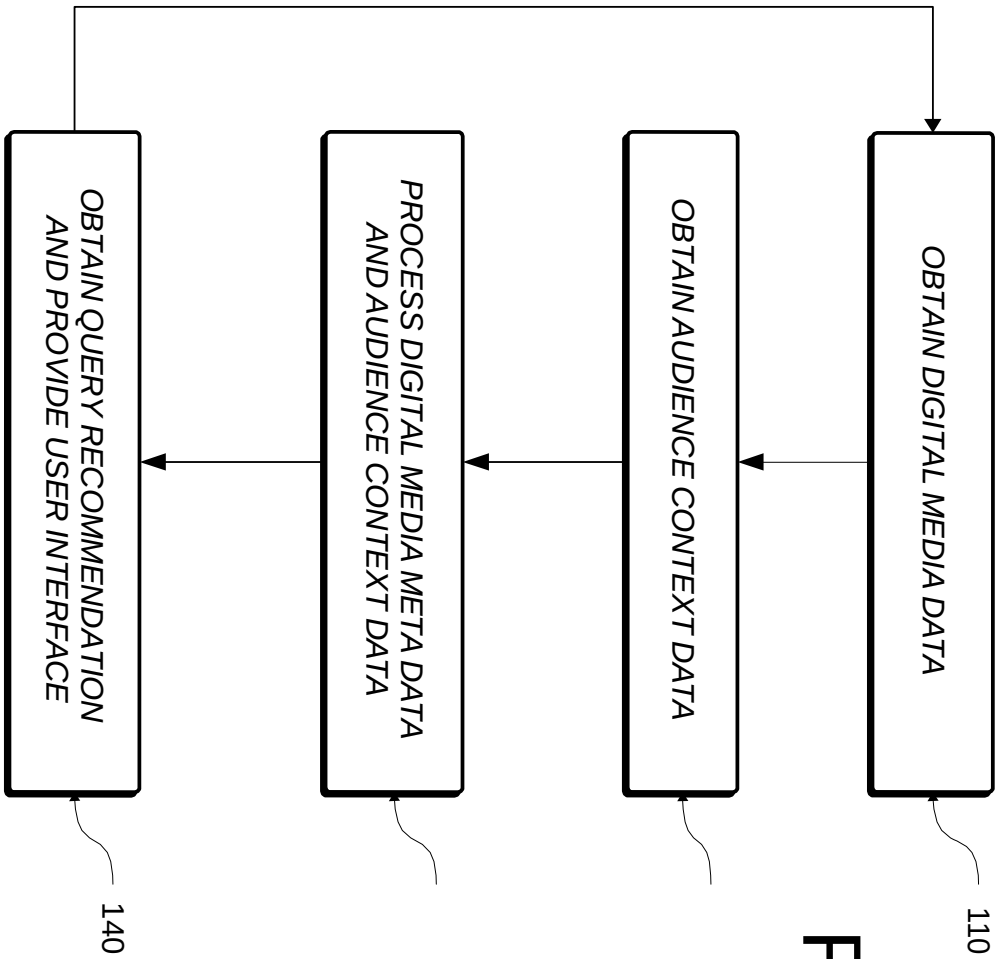
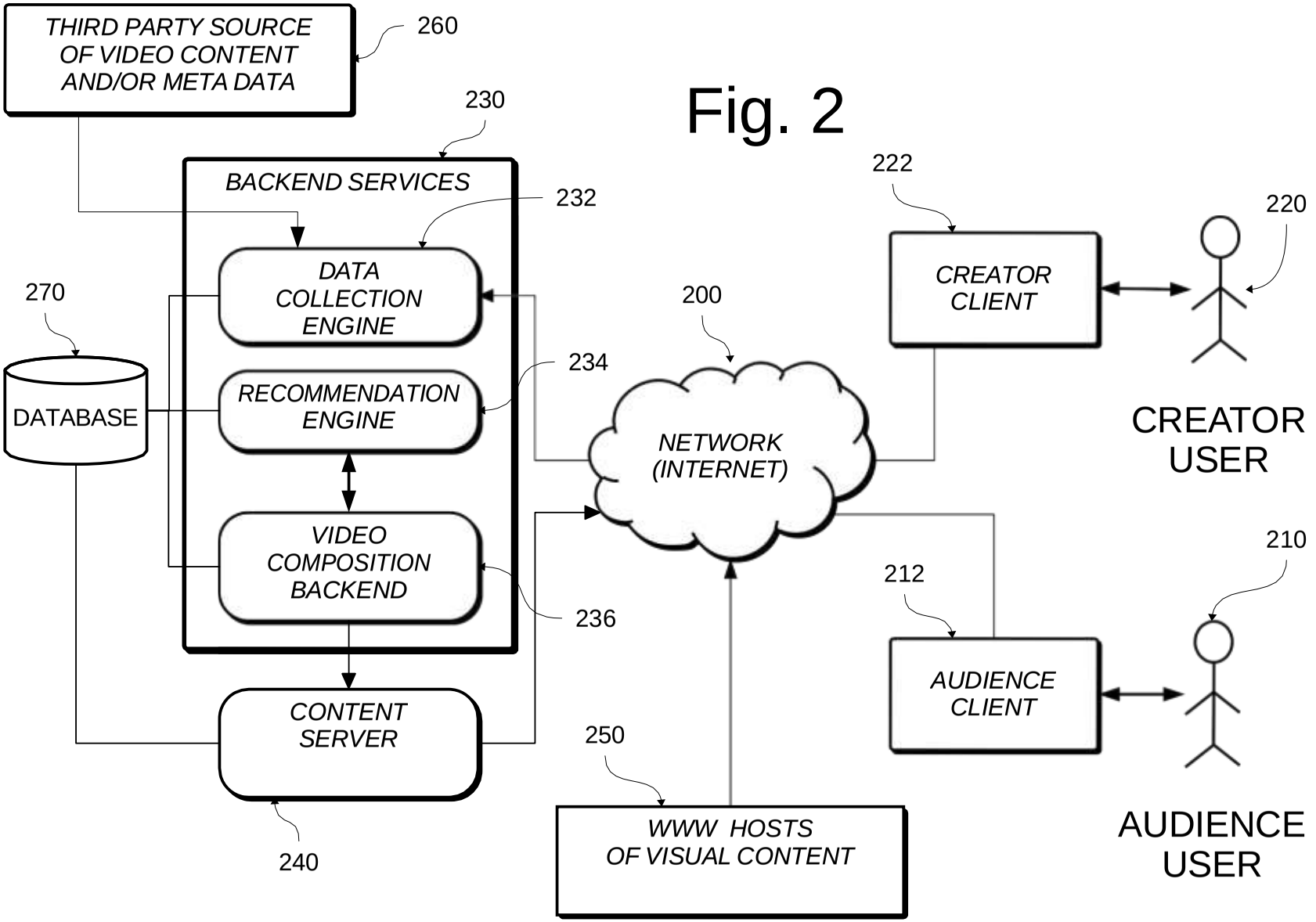

OBTAIN DIGITAL MEDIA DATA
OBTAIN AUDIENCE CONTEXT DATA
PROCESS DIGITAL MEDIA META DATA AND AUDIENCE CONTEXT DATA
OBTAIN QUERY RECOMMENDATION AND PROVIDE USER INTERFACE
110
140

Fig. 1

Fig. 2


THIRD PARTY SOURCE OF VIDEO CONTENT AND/OR META DATA
260
230
BACKEND SERVICES
232
DATA COLLECTION ENGINE
270
DATABASE
234
RECOMMENDATION ENGINE
VIDEO COMPOSITION BACKEND
236
CONTENT SERVER
240
200
NETWORK (INTERNET)
250
WWW HOSTS OF VISUAL CONTENT
222
CREATOR CLIENT
220
CREATOR USER
212
AUDIENCE CLIENT
210
AUDIENCE USER

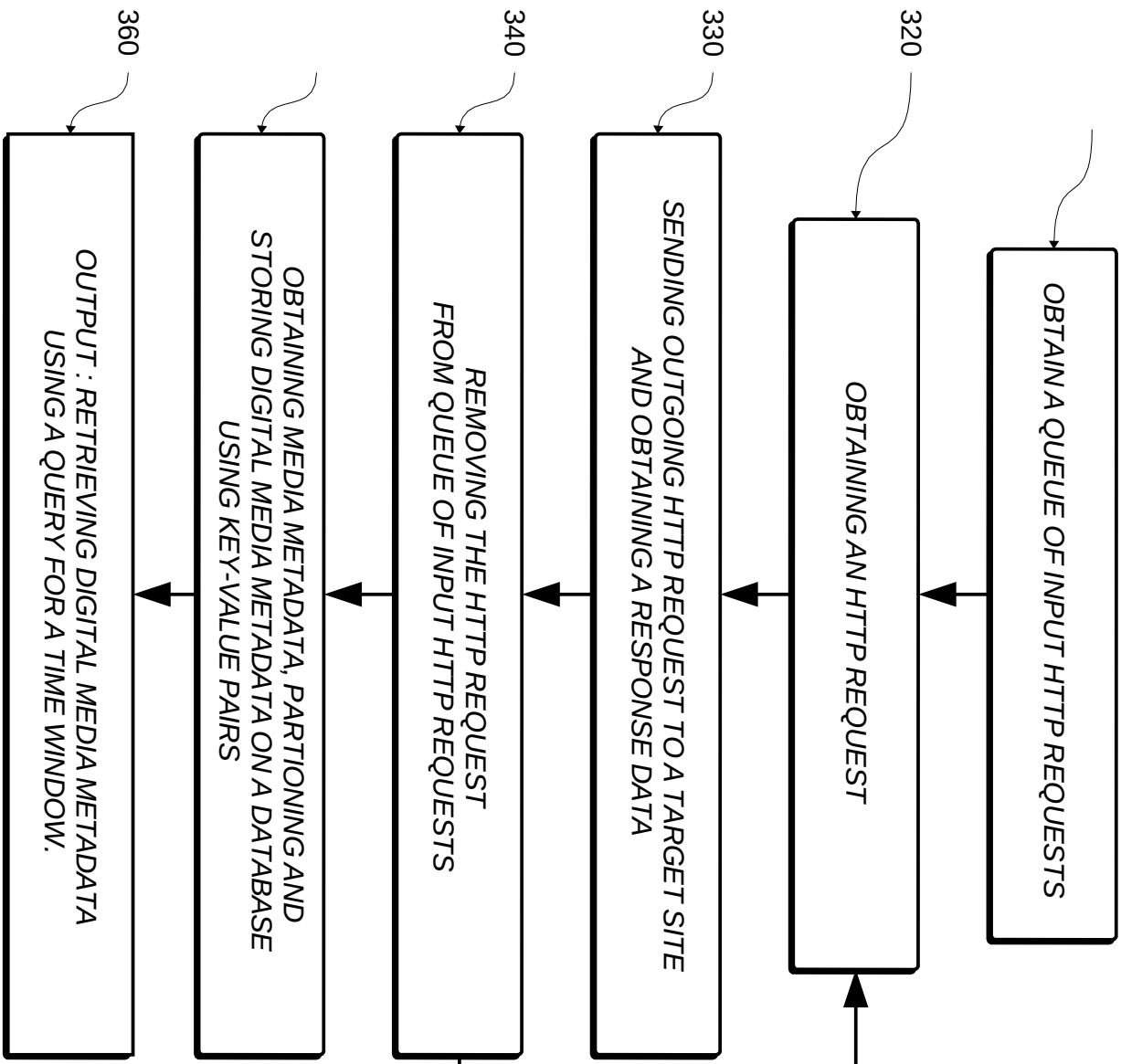

OBTAIN A QUEUE OF INPUT HTTP REQUESTS
320
OBTAINING AN HTTP REQUEST
330
SENDING OUTGOING HTTP REQUEST TO A TARGET SITE AND OBTAINING A RESPONSE DATA
340
REMOVING THE HTTP REQUEST FROM QUEUE OF INPUT HTTP REQUESTS
OBTAINING MEDIA METADATA, PARTIONING AND STORING DIGITAL MEDIA METADATA ON A DATABASE USING KEY-VALUE PAIRS
360
OUTPUT : RETRIEVING DIGITAL MEDIA METADATA USING A QUERY FOR A TIME WINDOW.

Fig. 3

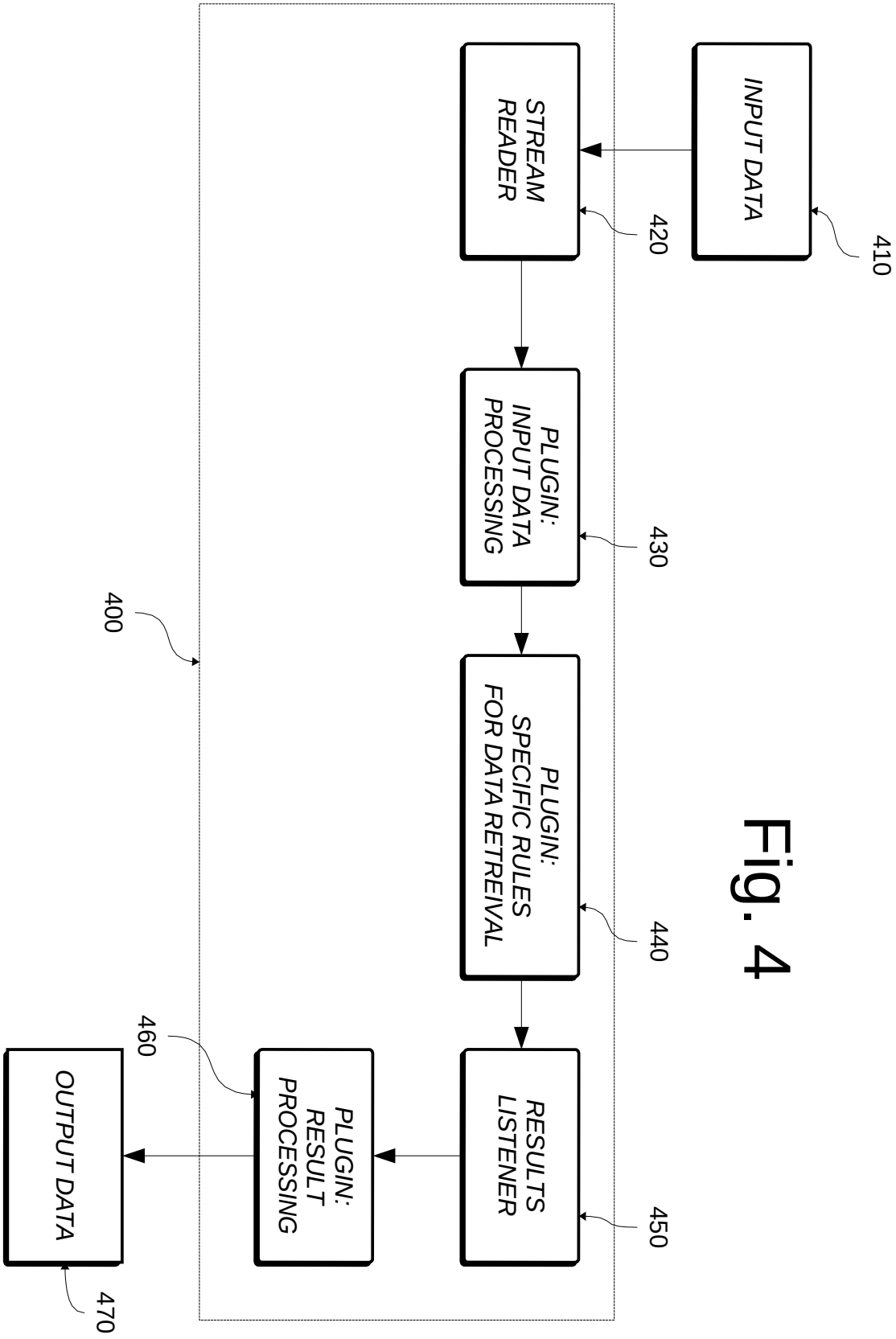

INPUT DATA
410
STREAM READER
420
PLUGIN: INPUT DATA PROCESSING
430
400
PLUGIN: SPECIFIC RULES FOR DATA RETREIVAL
440
RESULTS LISTENER
450
460
PLUGIN: RESULT PROCESSING
OUTPUT DATA
470

Fig. 4

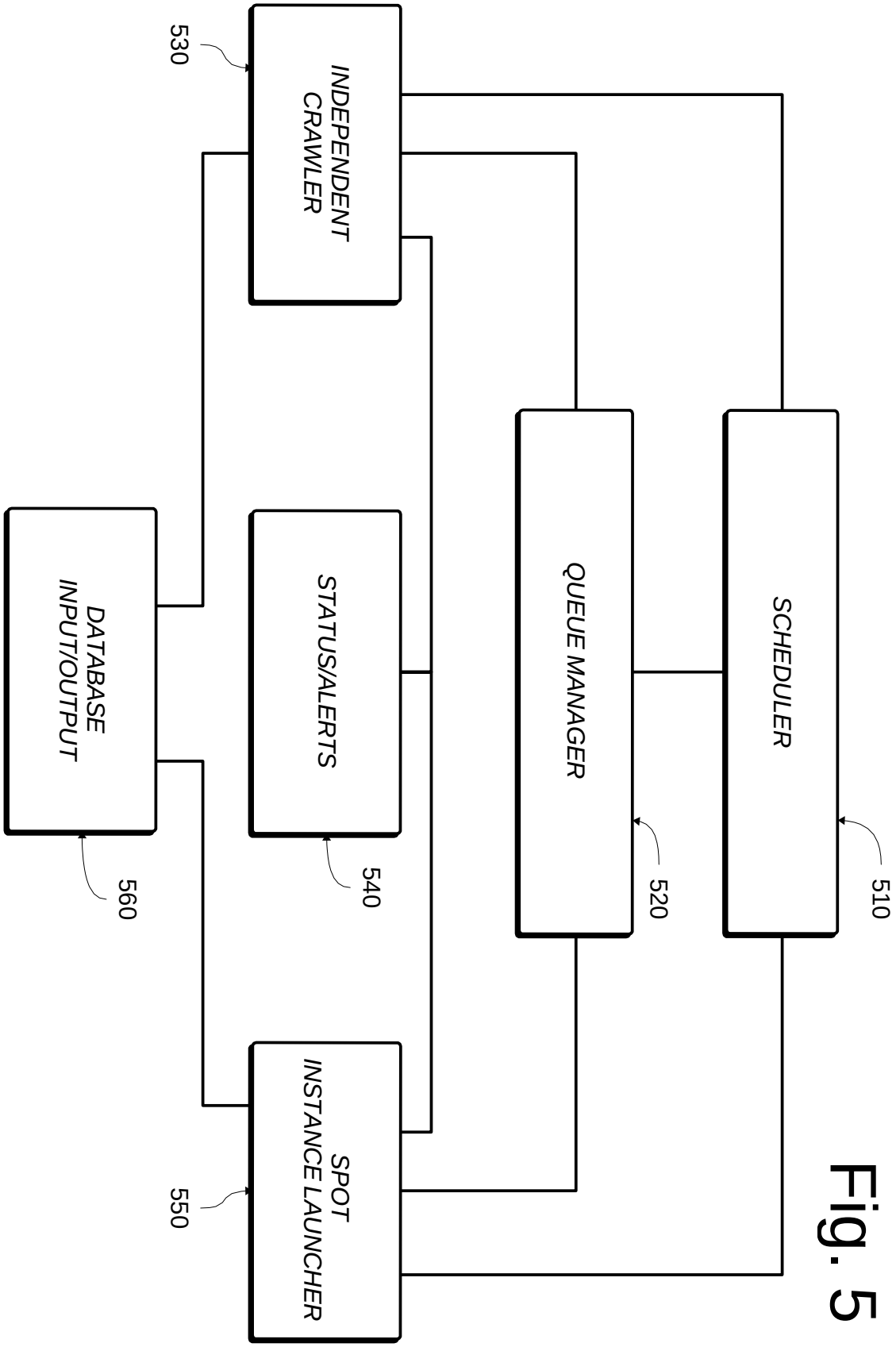
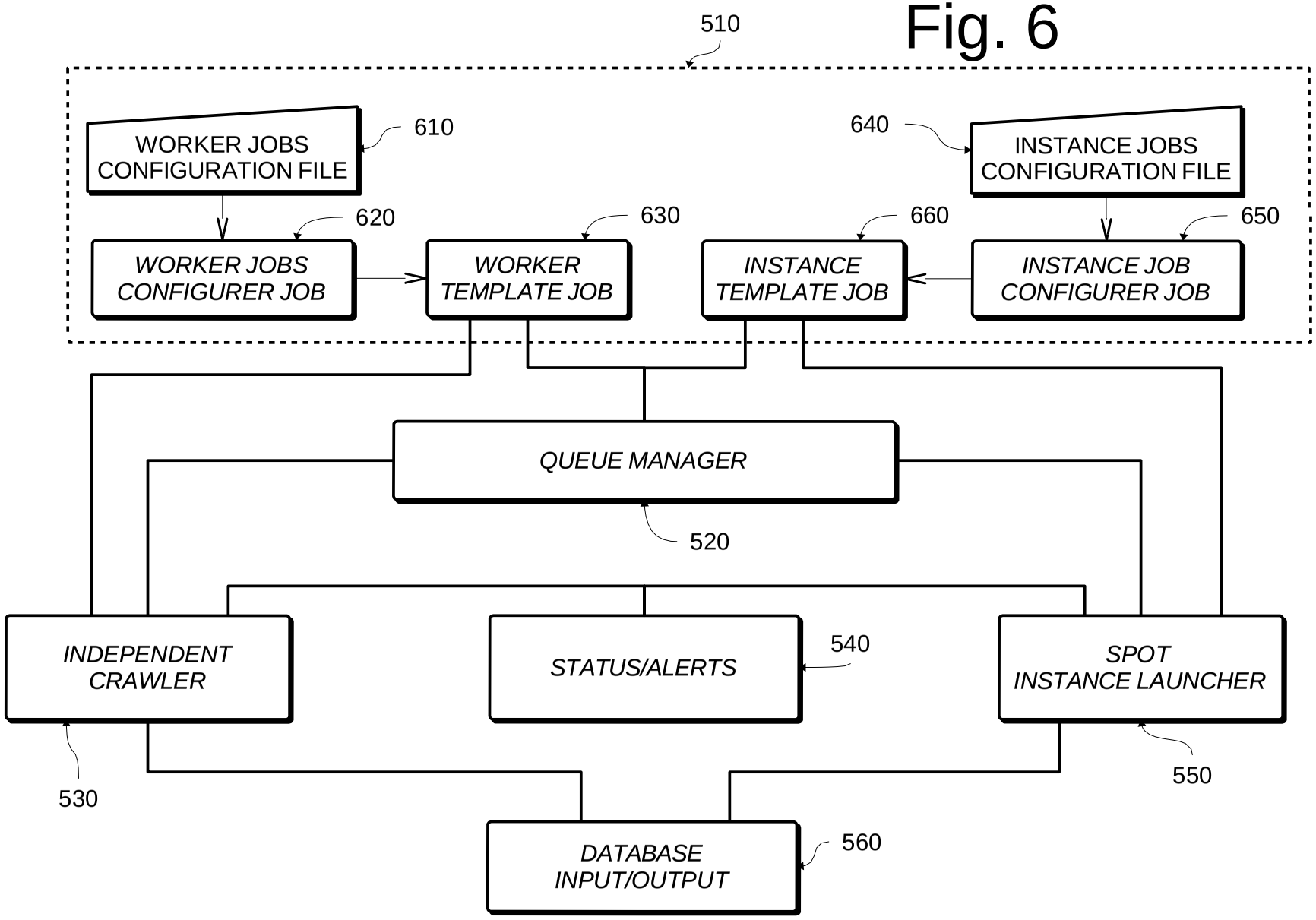

SCHEDULER
510
QUEUE MANAGER
520
INDEPENDENT CRAWLER
530
STATUS/ALERTS
540
SPOT INSTANCE LAUNCHER
550
DATABASE INPUT/OUTPUT
560

Fig. 5

Fig. 6


510
WORKER JOBS CONFIGURATION FILE
610
640
INSTANCE JOBS CONFIGURATION FILE
620
630
660
650
WORKER JOBS CONFIGURER JOB
WORKER TEMPLATE JOB
INSTANCE TEMPLATE JOB
INSTANCE JOB CONFIGURER JOB
QUEUE MANAGER
520
INDEPENDENT CRAWLER
STATUS/ALERTS
540
SPOT INSTANCE LAUNCHER
530
550
DATABASE INPUT/OUTPUT
560

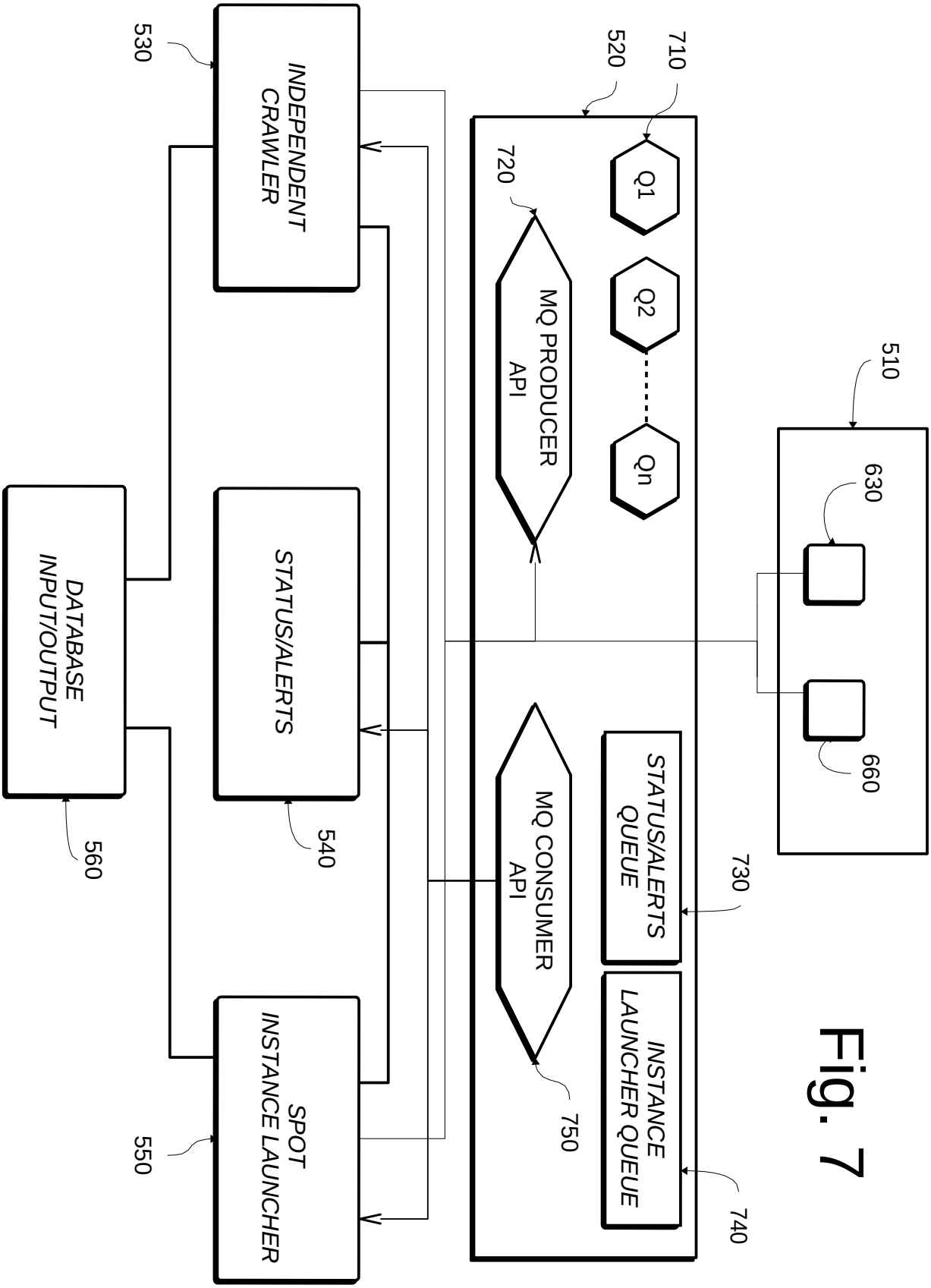

510
630
660
730
740
710
520
Q1
Q2
Qn
720
MQ PRODUCER API
MQ CONSUMER API
750
STATUS/ALERTS QUEUE
INSTANCE LAUNCHER QUEUE
530
INDEPENDENT CRAWLER
540
STATUS/ALERTS
560
DATABASE INPUT/OUTPUT
550
SPOT INSTANCE LAUNCHER

Fig. 7

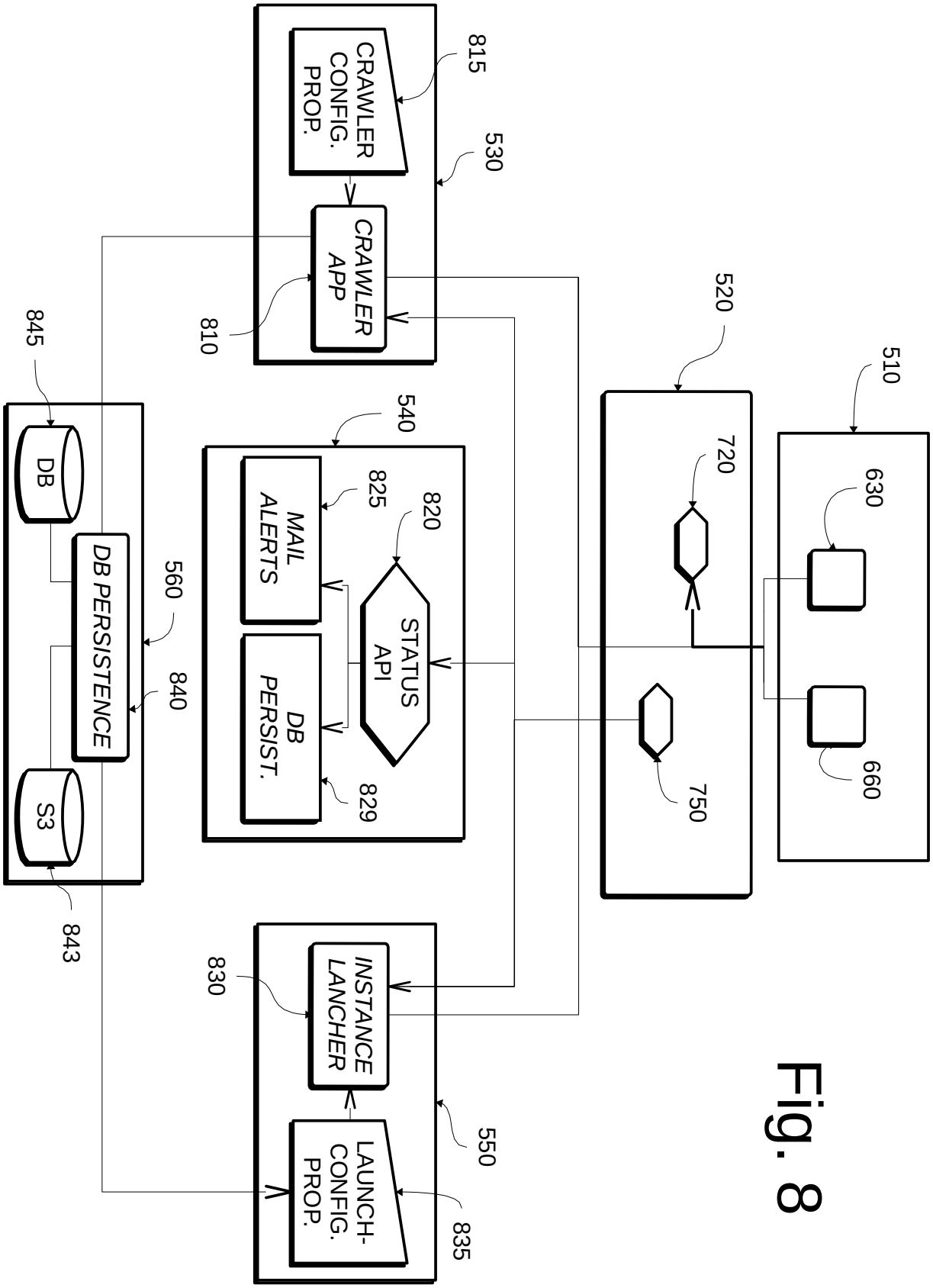

510
520
630
720
660
750
CRAWLER CONFIG. PROP.
815
530
CRAWLER APP
810
845
540
DB
MAIL ALERTS
825
820
STATUS API
560
DB PERSISTENCE
840
DB PERSIST.
829
S3
843
830
INSTANCE LANCHER
550
LAUNCH-CONFIG. PROP.
835

Fig. 8

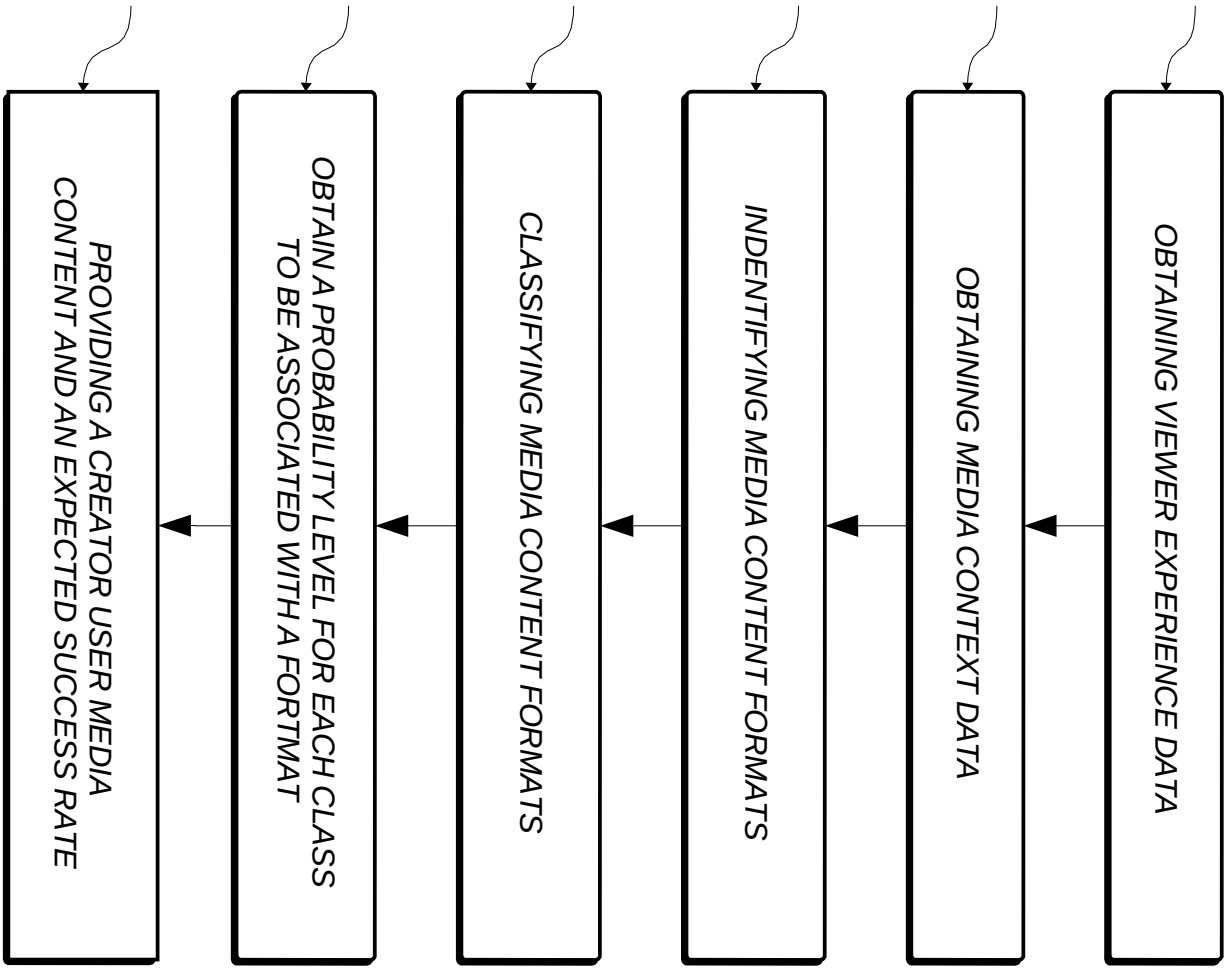

OBTAINING VIEWER EXPERIENCE DATA
OBTAINING MEDIA CONTEXT DATA
INDENTIFYING MEDIA CONTENT FORMATS
CLASSIFYING MEDIA CONTENT FORMATS
OBTAIN A PROBABILITY LEVEL FOR EACH CLASS TO BE ASSOCIATED WITH A FORTMAT
PROVIDING A CREATOR USER MEDIA CONTENT AND AN EXPECTED SUCCESS RATE
930
940
950
960

Fig. 9

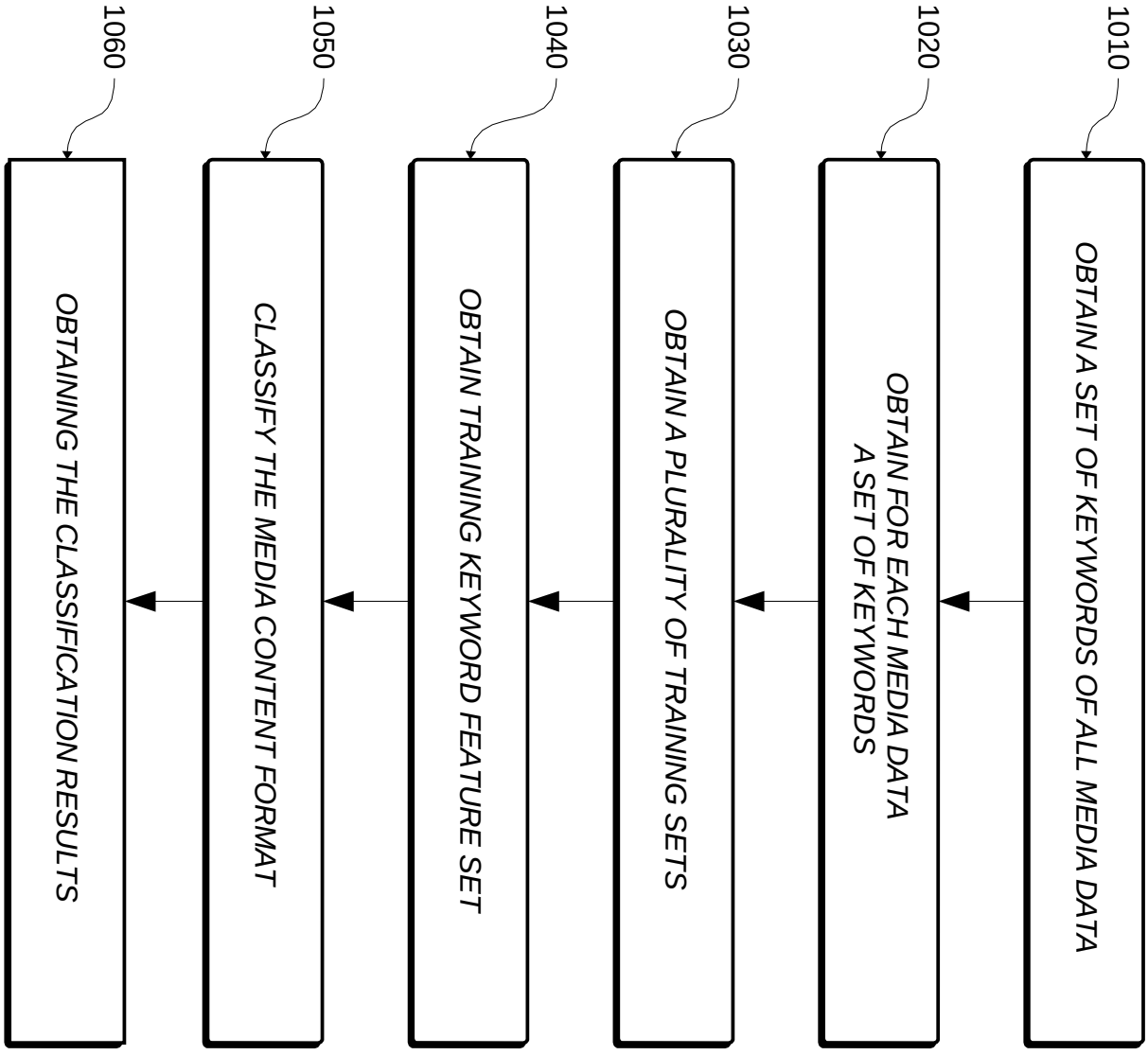
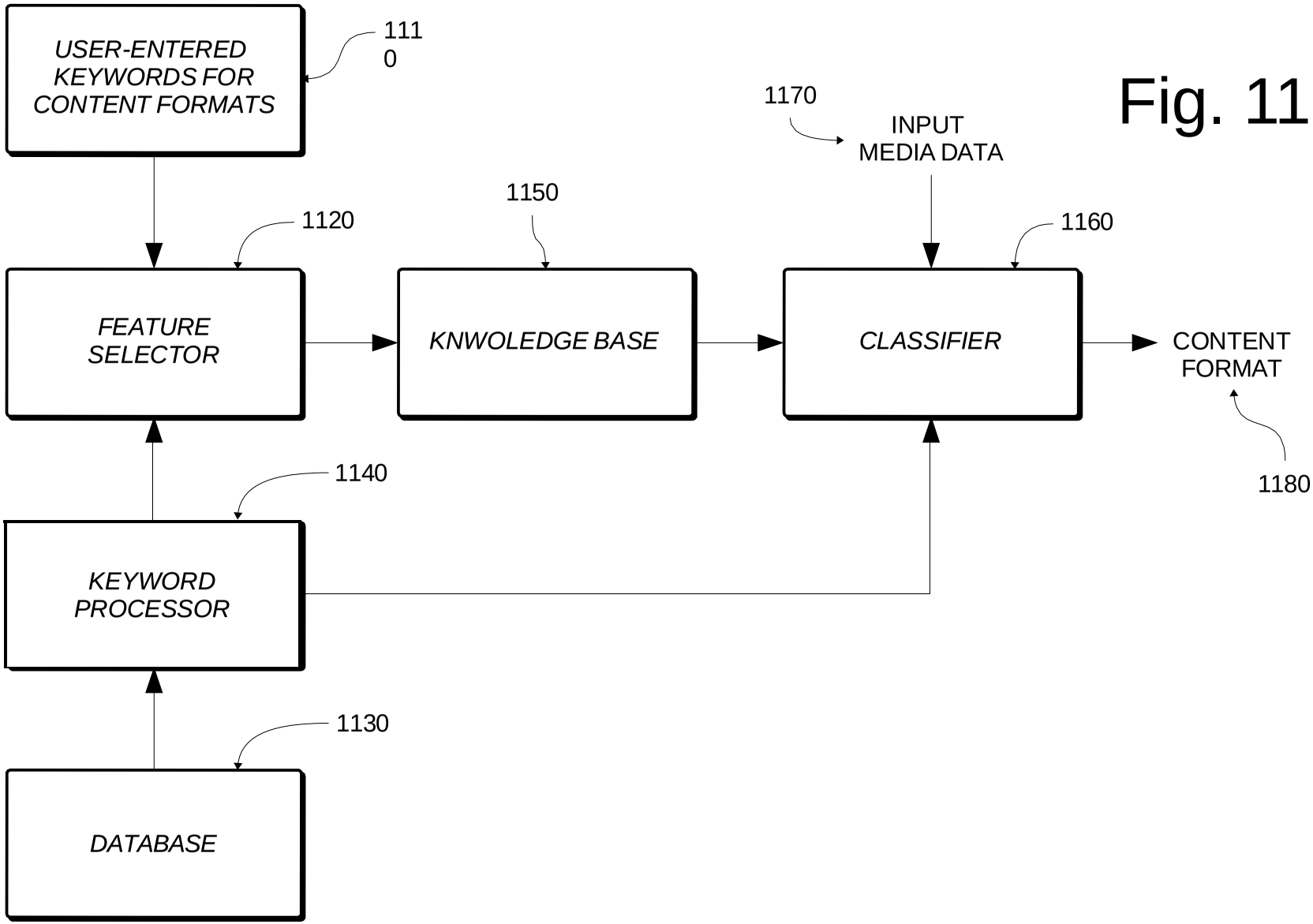

1010
OBTAIN A SET OF KEYWORDS OF ALL MEDIA DATA
1020
OBTAIN FOR EACH MEDIA DATA A SET OF KEYWORDS
1030
OBTAIN A PLURALITY OF TRAINING SETS
1040
OBTAIN TRAINING KEYWORD FEATURE SET
1050
CLASSIFY THE MEDIA CONTENT FORMAT
1060
OBTAINING THE CLASSIFICATION RESULTS

Fig. 10

Fig. 11


USER-ENTERED KEYWORDS FOR CONTENT FORMATS
1110
1170
INPUT MEDIA DATA
1150
1120
1160
FEATURE SELECTOR
KNWOLEDGE BASE
CLASSIFIER
CONTENT FORMAT
1180
1140
KEYWORD PROCESSOR
1130
DATABASE

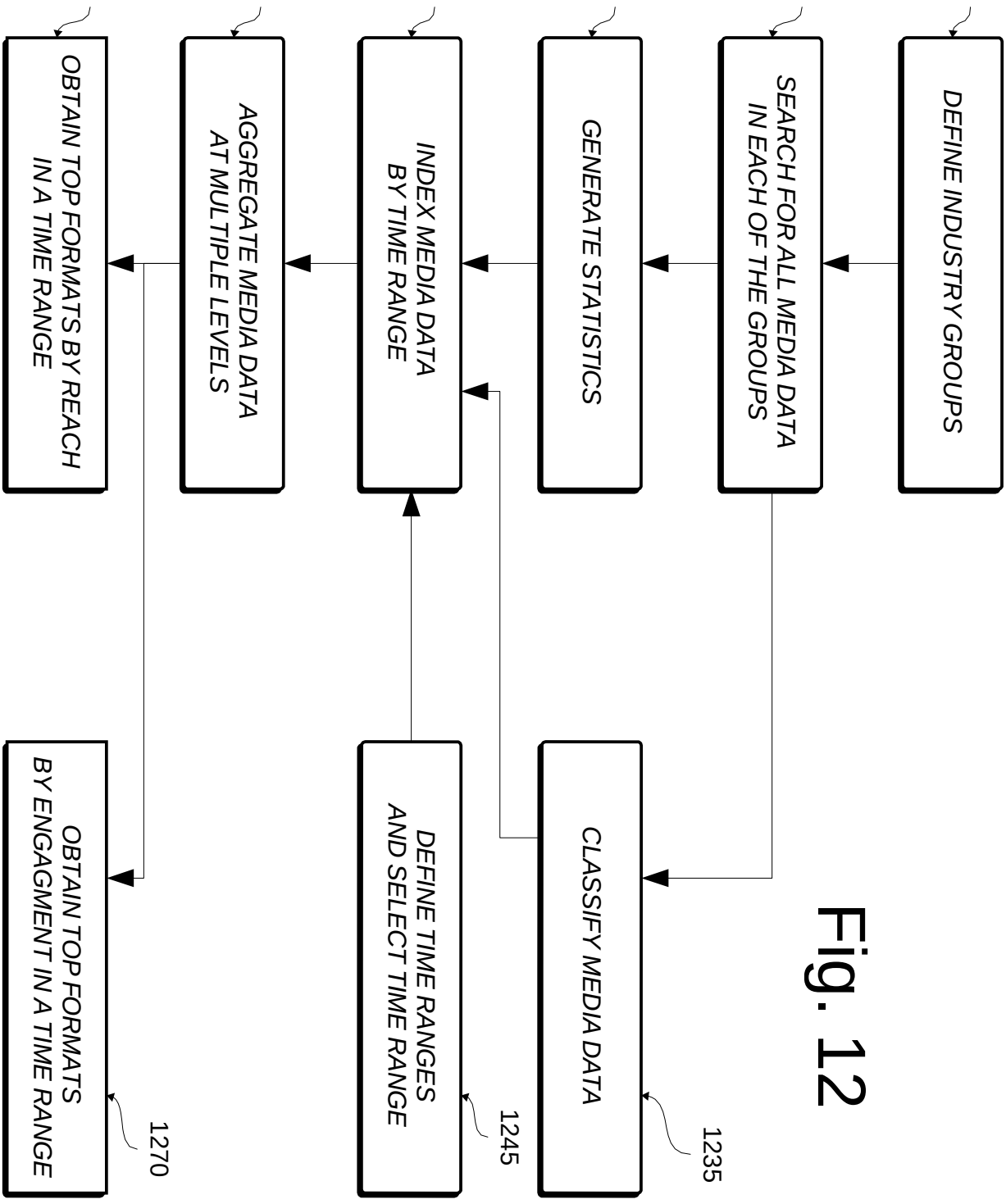

DEFINE INDUSTRY GROUPS
1220
SEARCH FOR ALL MEDIA DATA IN EACH OF THE GROUPS
1230
GENERATE STATISTICS
1240
INDEX MEDIA DATA BY TIME RANGE
1250
AGGREGATE MEDIA DATA AT MULTIPLE LEVELS
1260
OBTAIN TOP FORMATS BY REACH IN A TIME RANGE
1235
CLASSIFY MEDIA DATA
1245
DEFINE TIME RANGES AND SELECT TIME RANGE
1270
OBTAIN TOP FORMATS BY ENGAGMENT IN A TIME RANGE

Fig. 12

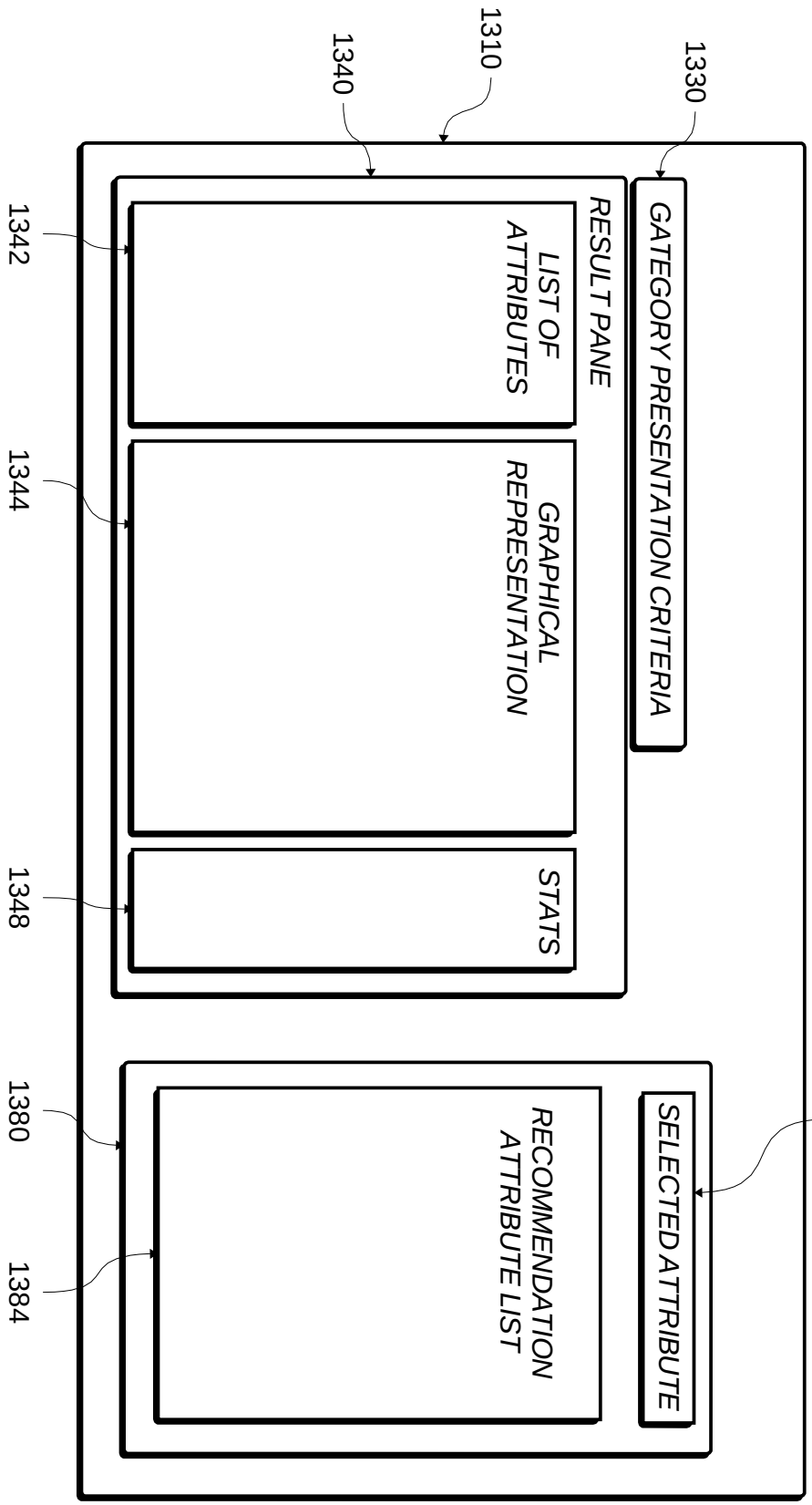
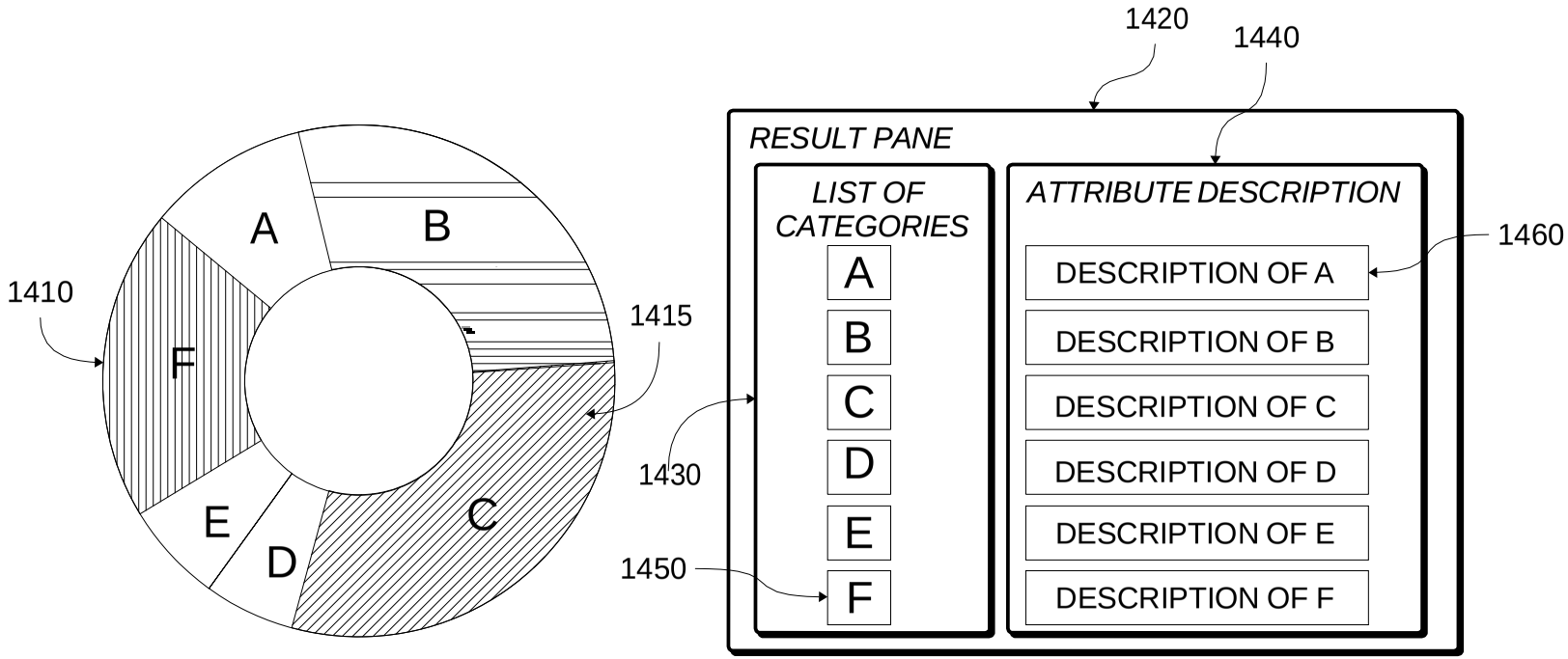

1330
1310
1340
GATEGORY PRESENTATION CRITERIA
RESULT PANE
1342
LIST OF ATTRIBUTES
1344
GRAPHICAL REPRESENTATION
1348
STATS
1382
SELECTED ATTRIBUTE
1380
RECOMMENDATION ATTRIBUTE LIST
1384

Fig. 13

Fig. 14


1420
1440
RESULT PANE
LIST OF CATEGORIES
ATTRIBUTE DESCRIPTION
1460
A
B
C
D
E
F
DESCRIPTION OF A
DESCRIPTION OF B
DESCRIPTION OF C
DESCRIPTION OF D
DESCRIPTION OF E
DESCRIPTION OF F
1410
1415
1430
1450

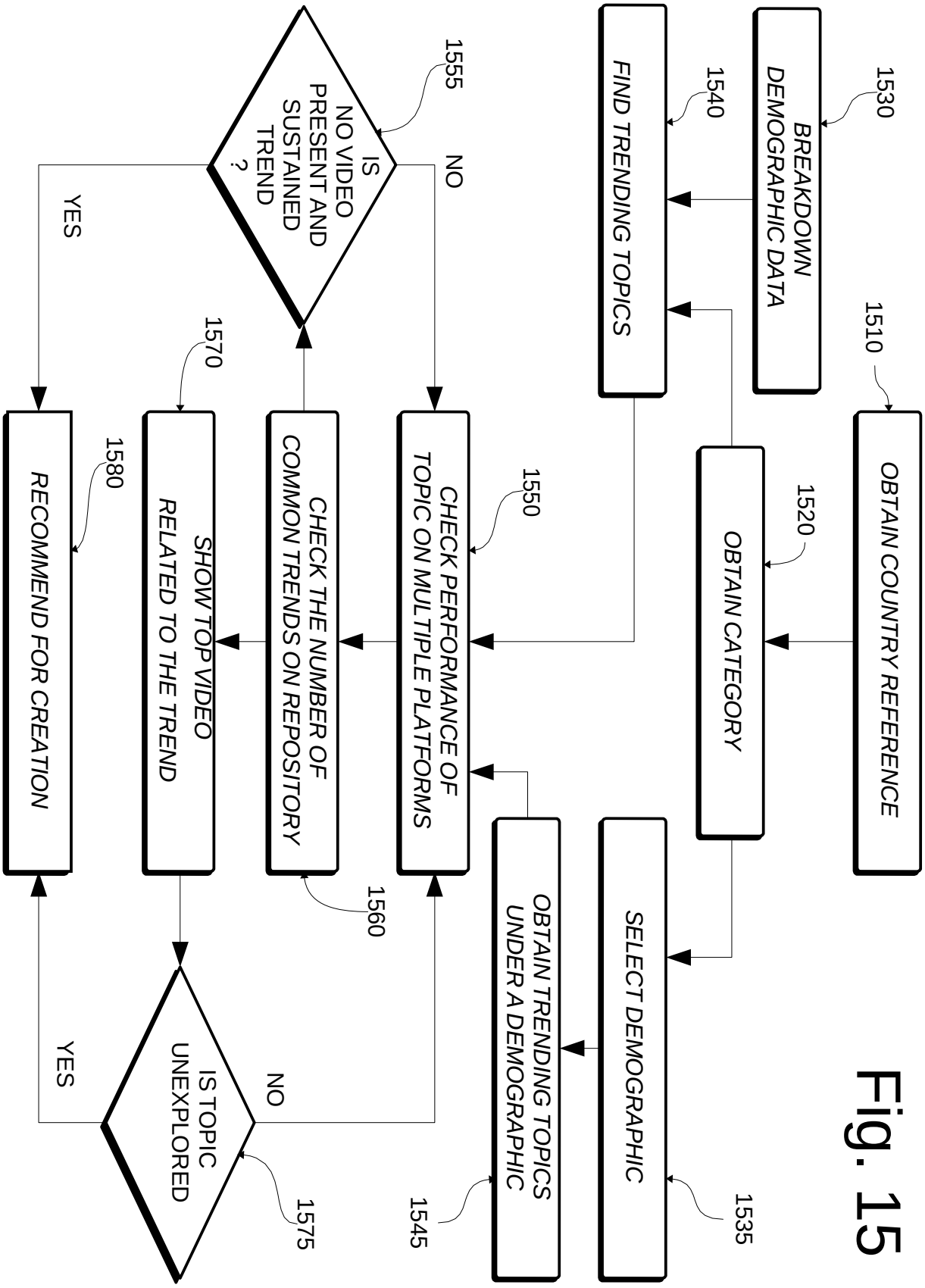

OBTAIN COUNTRY REFERENCE
1510
OBTAIN CATEGORY
1520
SELECT DEMOGRAPHIC
1535
OBTAIN TRENDING TOPICS UNDER A DEMOGRAPHIC
1545
CHECK PERFORMANCE OF TOPIC ON MULTIPLE PLATFORMS
1550
CHECK THE NUMBER OF COMMON TRENDS ON REPOSITORY
1560
SHOW TOP VIDEO RELATED TO THE TREND
1570
RECOMMEND FOR CREATION
1580
BREAKDOWN DEMOGRAPHIC DATA
1530
FIND TRENDING TOPICS
1540
IS NO VIDEO PRESENT AND SUSTAINED TREND ?
1555
NO
YES
IS TOPIC UNEXPLORED
1575
NO
YES

Fig. 15

Fig. 16

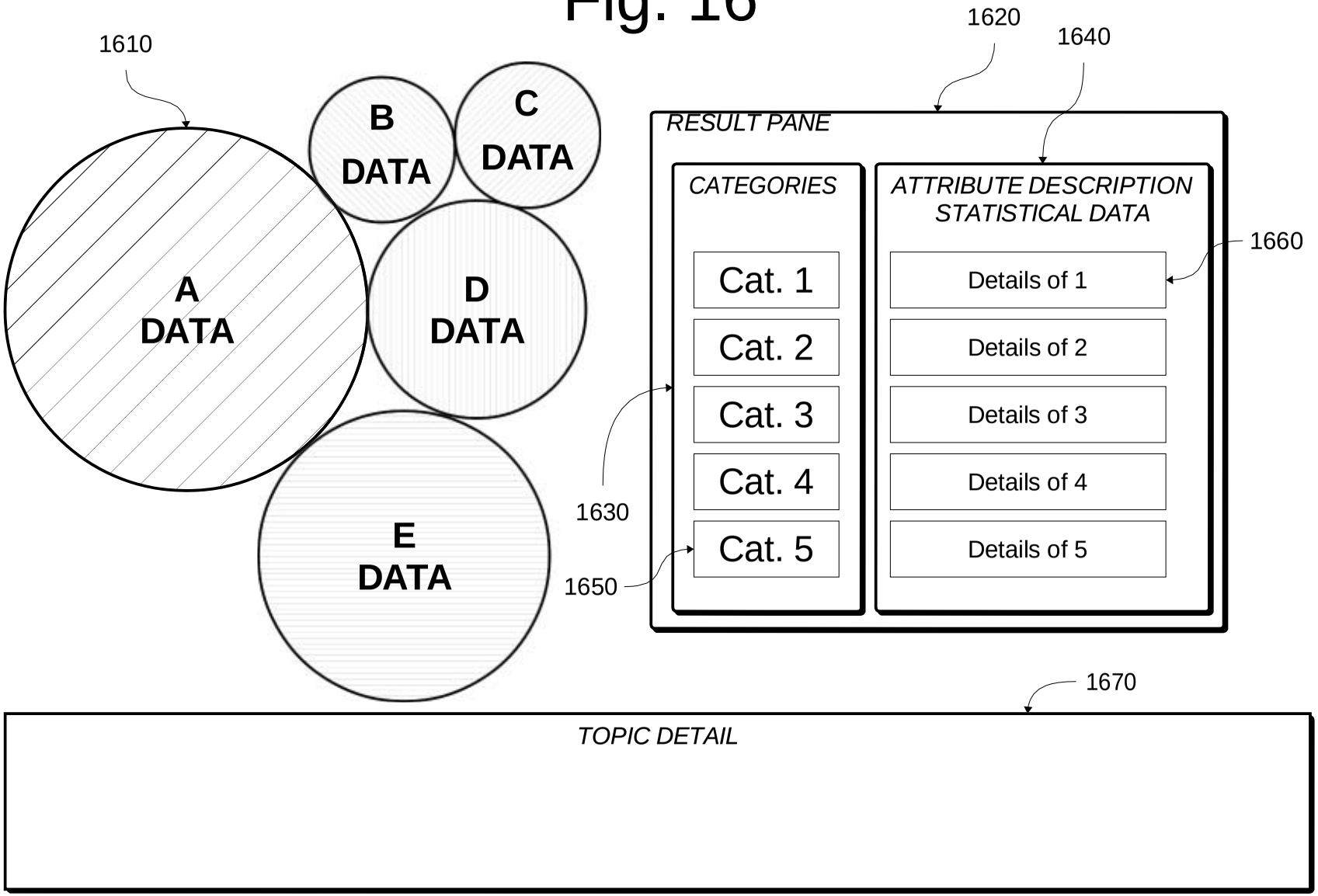
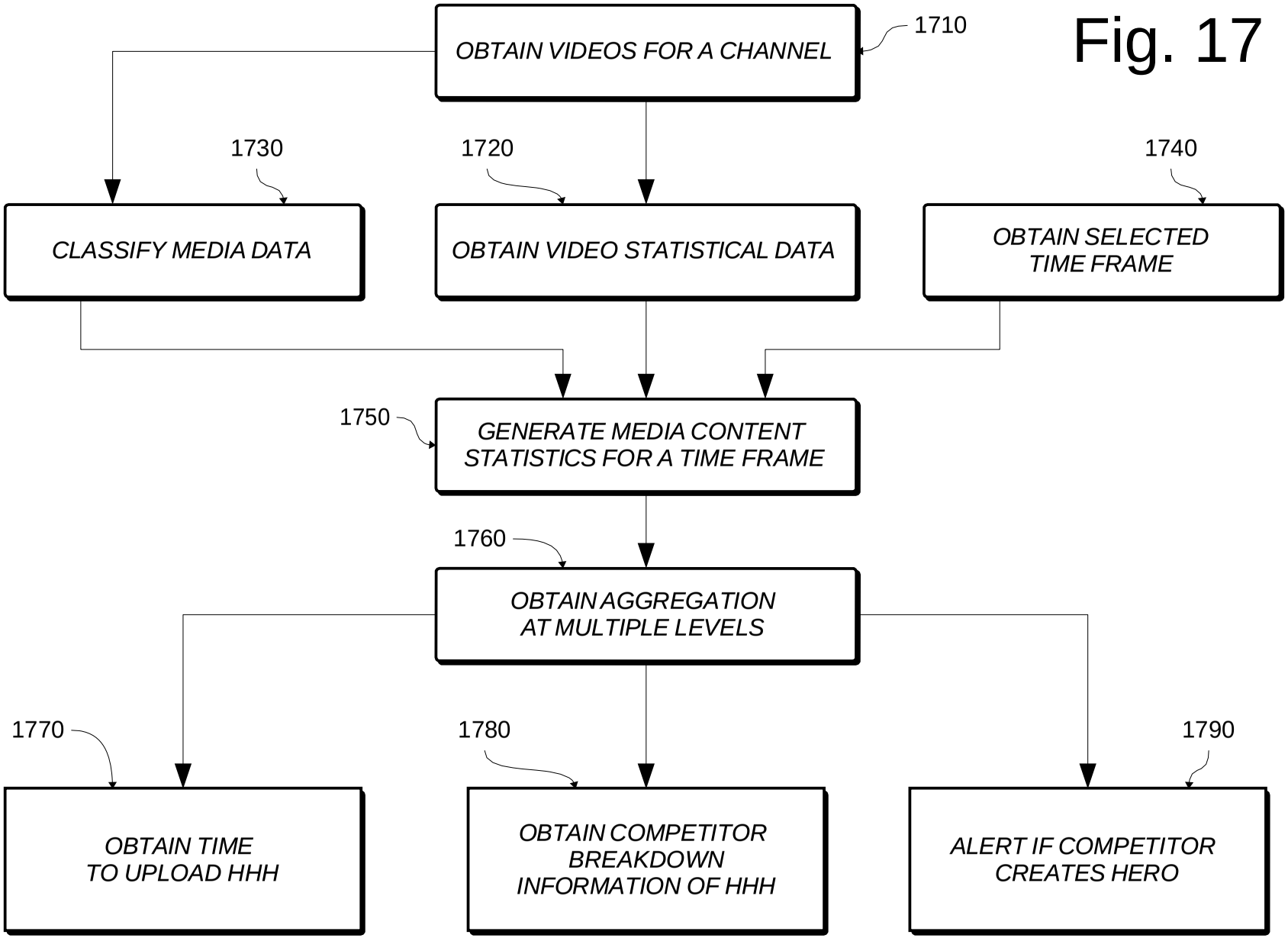

1610
1620
1640
B DATA
C DATA
A DATA
D DATA
E DATA
RESULT PANE
CATEGORIES
ATTRIBUTE DESCRIPTION STATISTICAL DATA
1660
Cat. 1
Cat. 2
Cat. 3
Cat. 4
Cat. 5
Details of 1
Details of 2
Details of 3
Details of 4
Details of 5
1630
1650
1670
TOPIC DETAIL

Fig. 17


OBTAIN VIDEOS FOR A CHANNEL
1710
1730
1720
1740
CLASSIFY MEDIA DATA
OBTAIN VIDEO STATISTICAL DATA
OBTAIN SELECTED TIME FRAME
1750
GENERATE MEDIA CONTENT STATISTICS FOR A TIME FRAME
1760
OBTAIN AGGREGATION AT MULTIPLE LEVELS
1770
1780
1790
OBTAIN TIME TO UPLOAD HHH
OBTAIN COMPETITOR BREAKDOWN INFORMATION OF HHH
ALERT IF COMPETITOR CREATES HERO

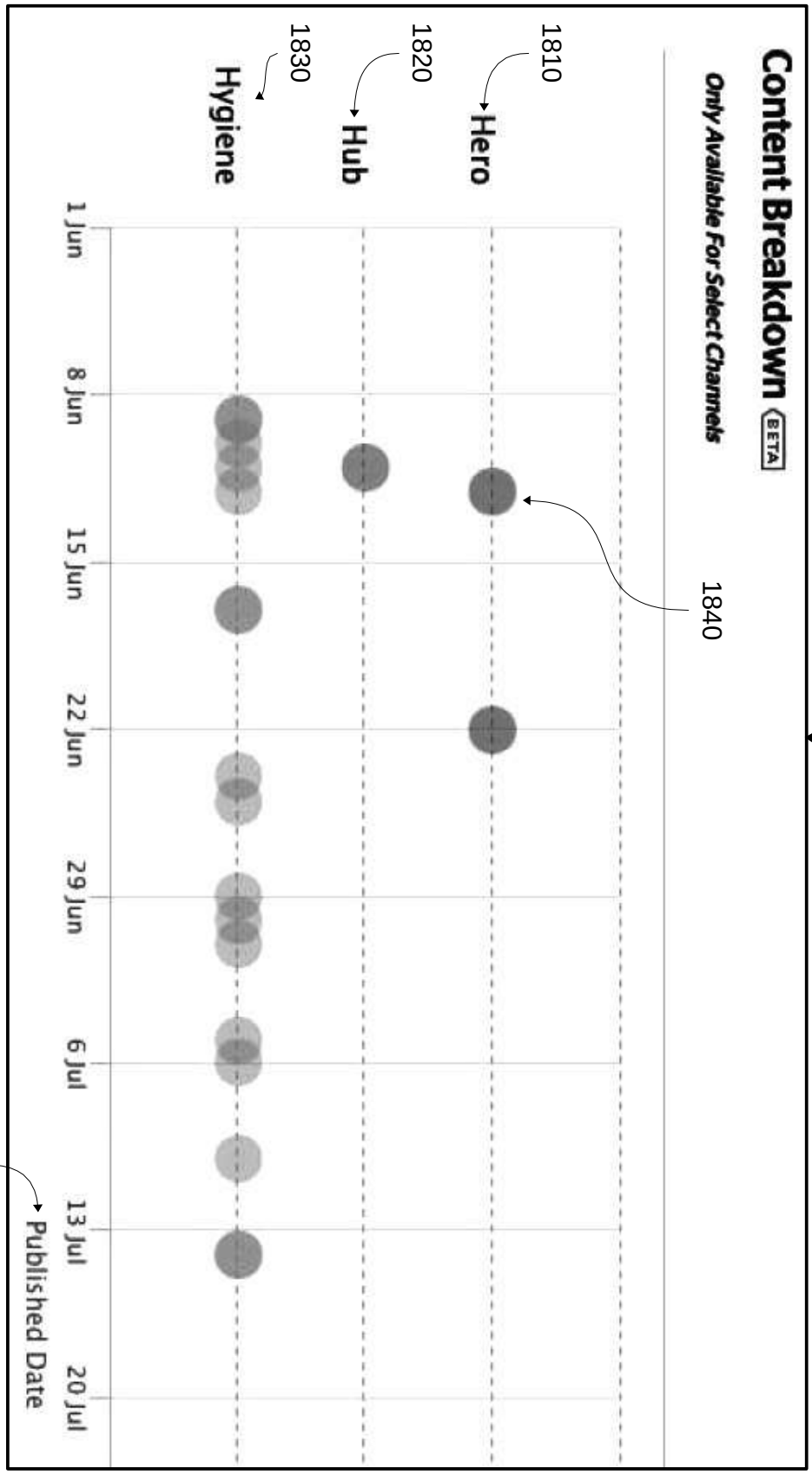

Content Breakdown
BETA
Only Available For Select Channels
1800
1810
Hero
1820
Hub
1830
Hygiene
1840
1 Jun
8 Jun
15 Jun
22 Jun
29 Jun
6 Jul
13 Jul
20 Jul
Published Date
1840

Fig. 18