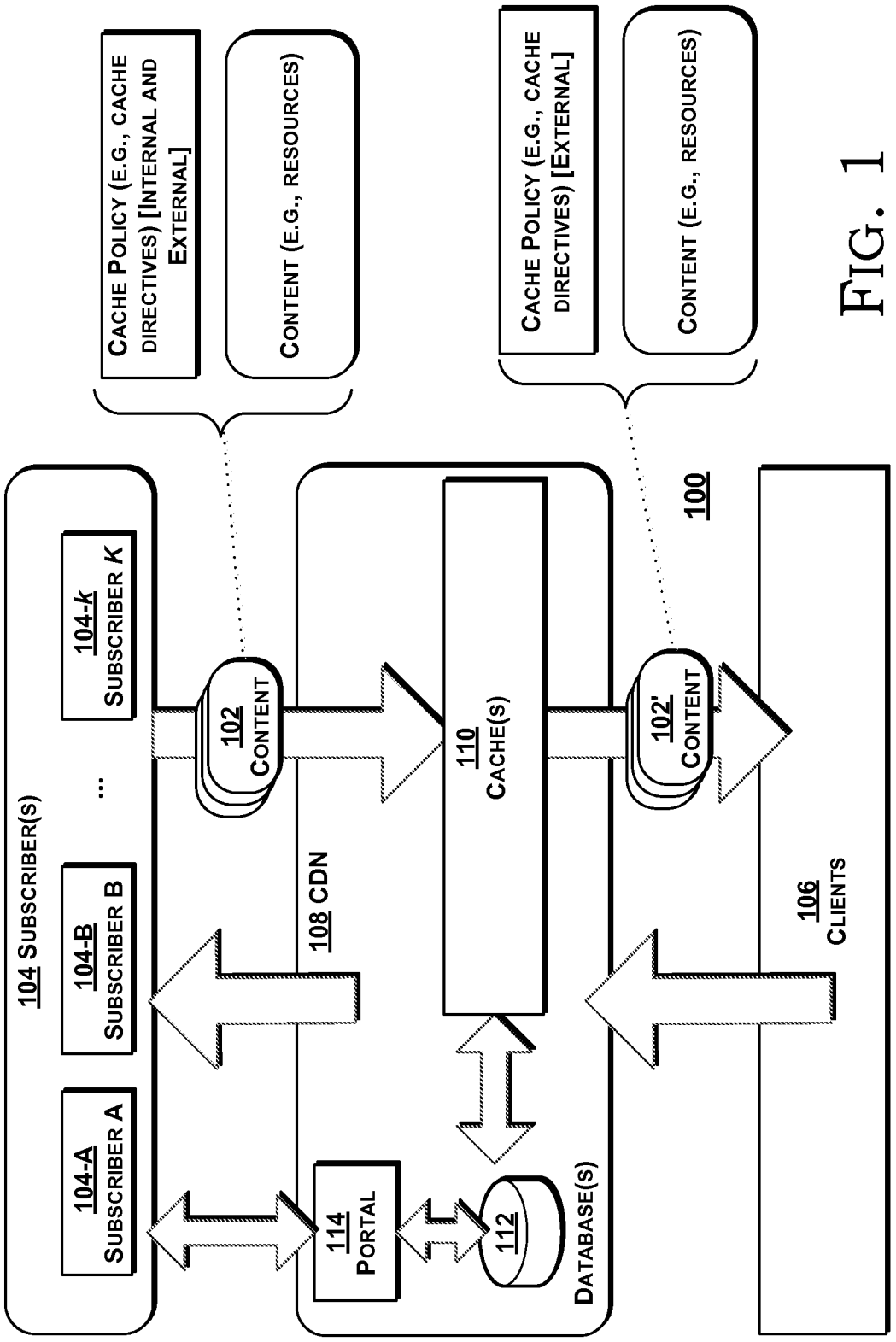
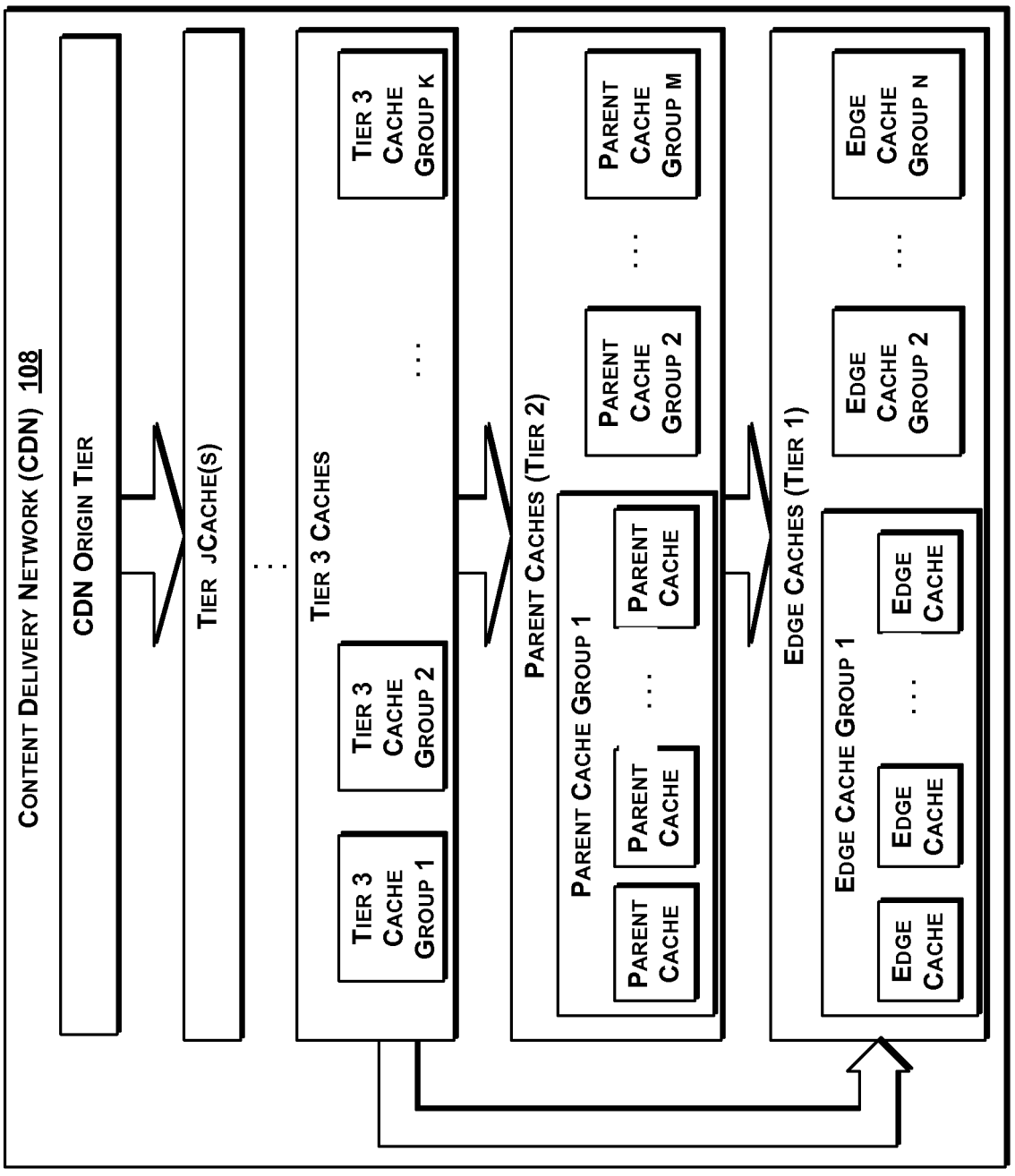

CACHE POLICY (E.G., CACHE DIRECTIVES) [INTERNAL AND EXTERNAL]
CONTENT (E.G., RESOURCES)
CACHE POLICY (E.G., CACHE DIRECTIVES) [EXTERNAL]
CONTENT (E.G., RESOURCES)
104 SUBSCRIBER(S)
104-A SUBSCRIBER A
104-B SUBSCRIBER B
...
104-k SUBSCRIBER K
102 CONTENT
108 CDN
110 CACHE(S)
102' CONTENT
100
106 CLIENTS
114 PORTAL
112
DATABASE(S)

FIG. 1

FIG. 2


CONTENT DELIVERY NETWORK (CDN) 108
CDN ORIGIN TIER
TIER JCACHE(S)
TIER 3 CACHES
TIER 3 CACHE GROUP 1
TIER 3 CACHE GROUP 2
TIER 3 CACHE GROUP K
PARENT CACHES (TIER 2)
PARENT CACHE GROUP 1
PARENT CACHE
PARENT CACHE
PARENT CACHE GROUP 2
PARENT CACHE GROUP M
EDGE CACHES (TIER 1)
EDGE CACHE GROUP 1
EDGE CACHE
EDGE CACHE
EDGE CACHE
EDGE CACHE GROUP 2
EDGE CACHE GROUP N

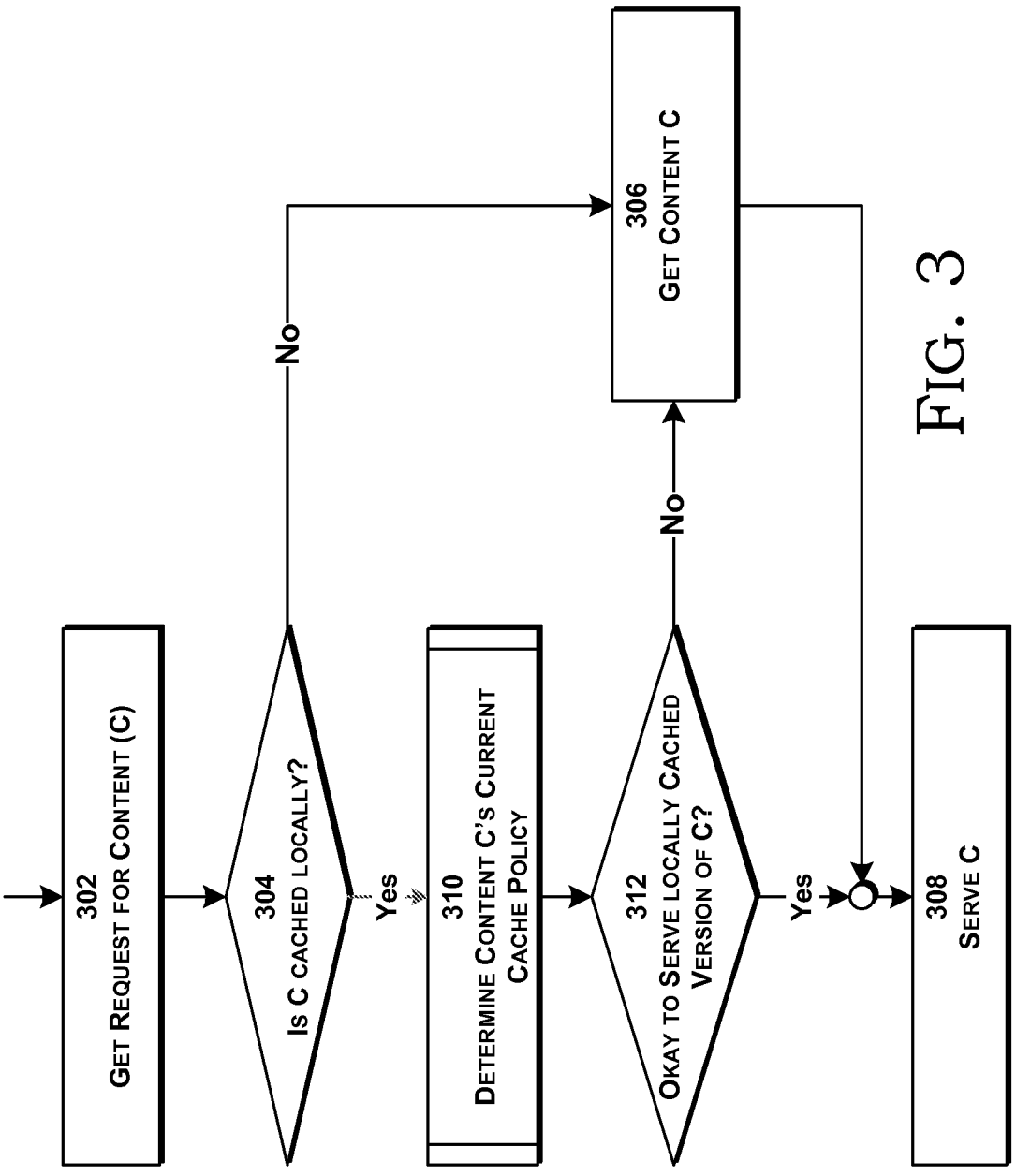

302
GET REQUEST FOR CONTENT (C)
304
IS C CACHED LOCALLY?
No
Yes
306
GET CONTENT C
310
DETERMINE CONTENT C'S CURRENT CACHE POLICY
312
OKAY TO SERVE LOCALLY CACHED VERSION OF C?
No
Yes
308
SERVE C

FIG. 3

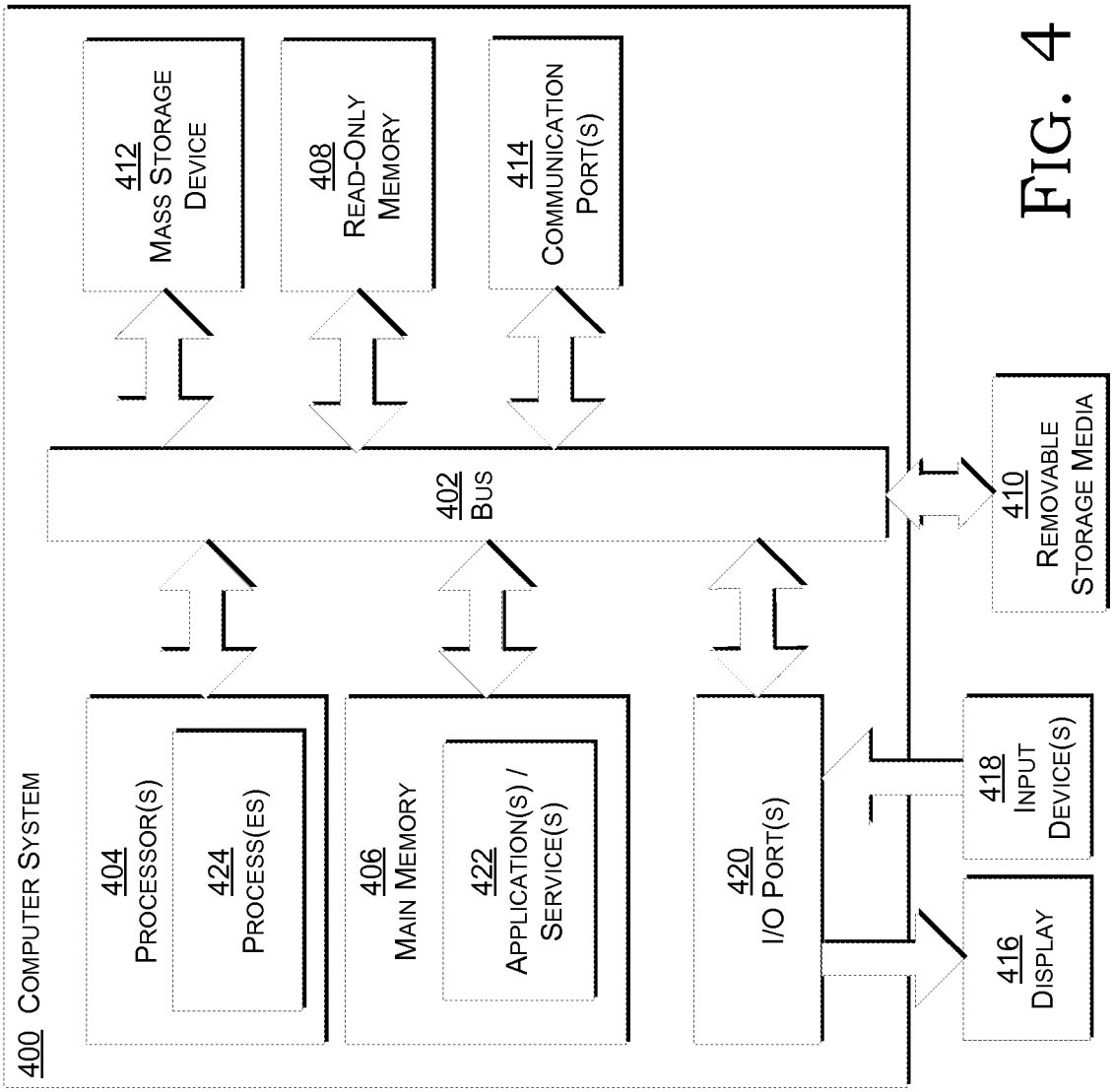

400 COMPUTER SYSTEM
404 PROCESSOR(S)
424 PROCESS(ES)
406 MAIN MEMORY
422 APPLICATION(S) / SERVICE(S)
420 I/O PORT(S)
402 BUS
412 MASS STORAGE DEVICE
408 READ-ONLY MEMORY
414 COMMUNICATION PORT(S)
410 REMOVABLE STORAGE MEDIA
418 INPUT DEVICE(S)
416 DISPLAY

FIG. 4