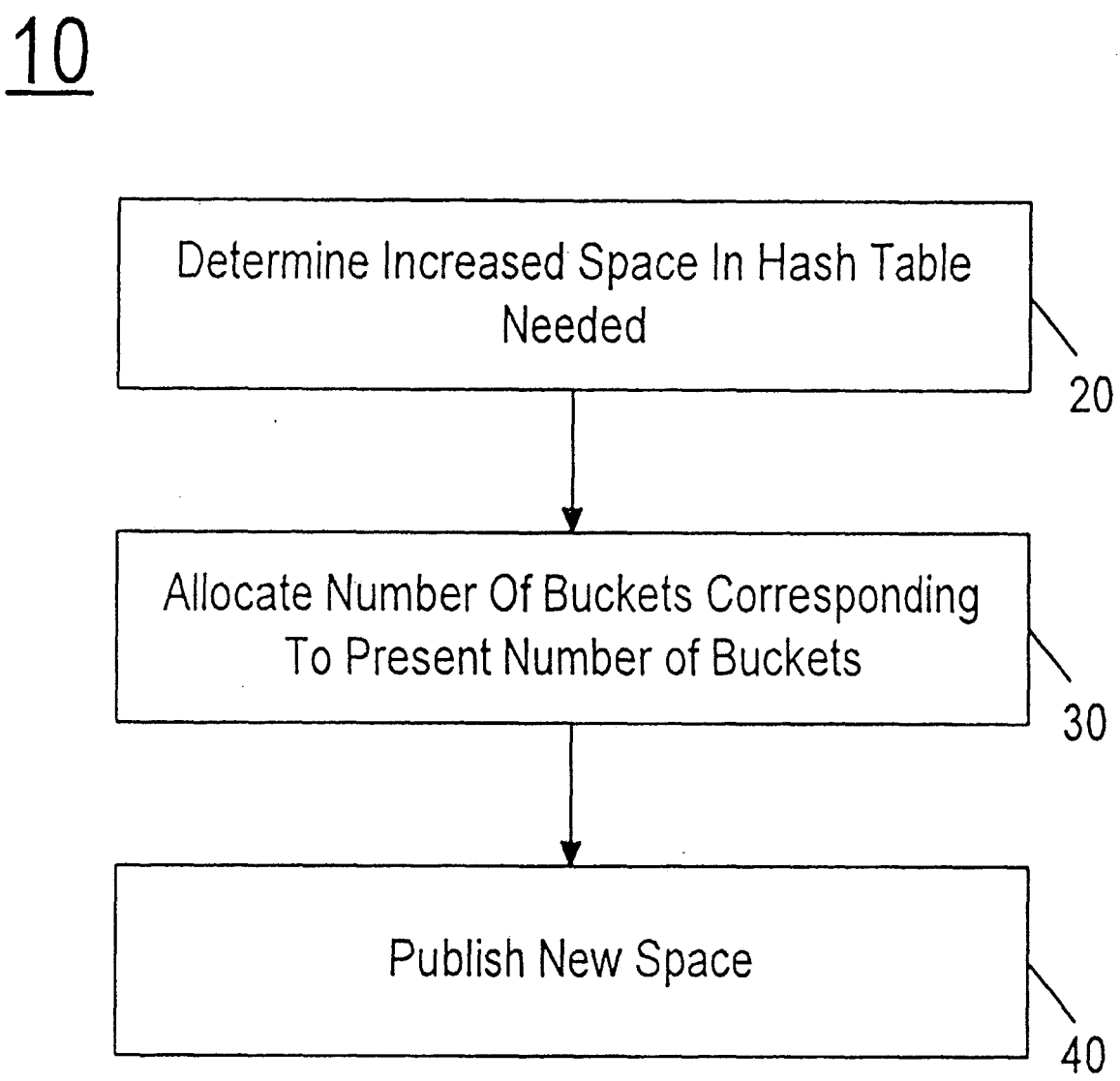
10
Determine Increased Space In Hash Table Needed
20
Allocate Number Of Buckets Corresponding To Present Number of Buckets
30
Publish New Space
40

FIG. 1

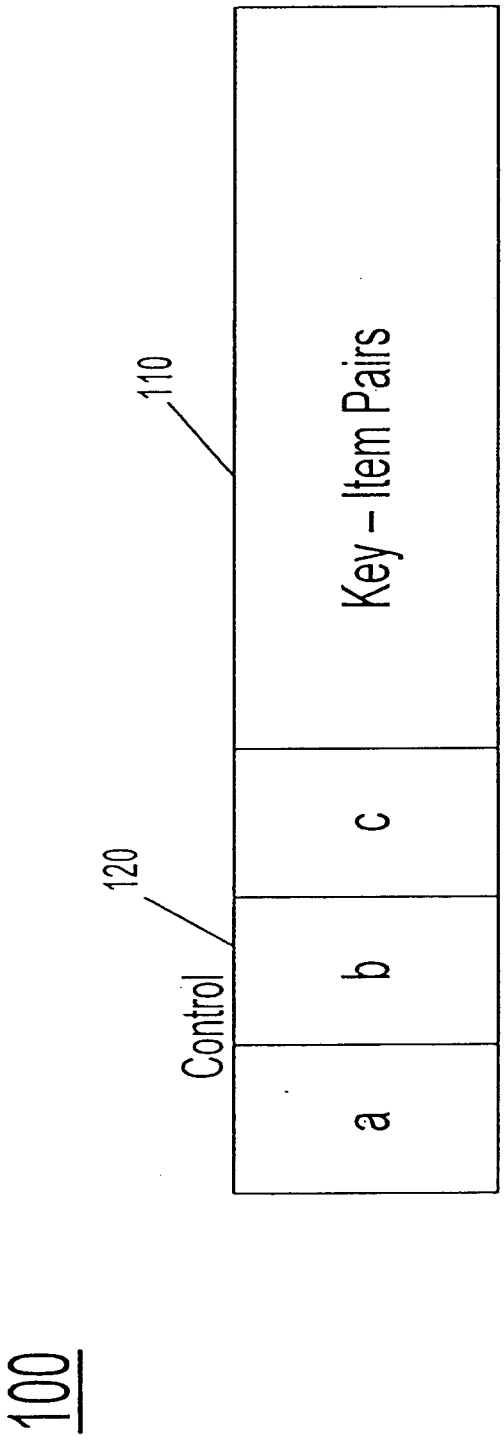

FIG. 2A

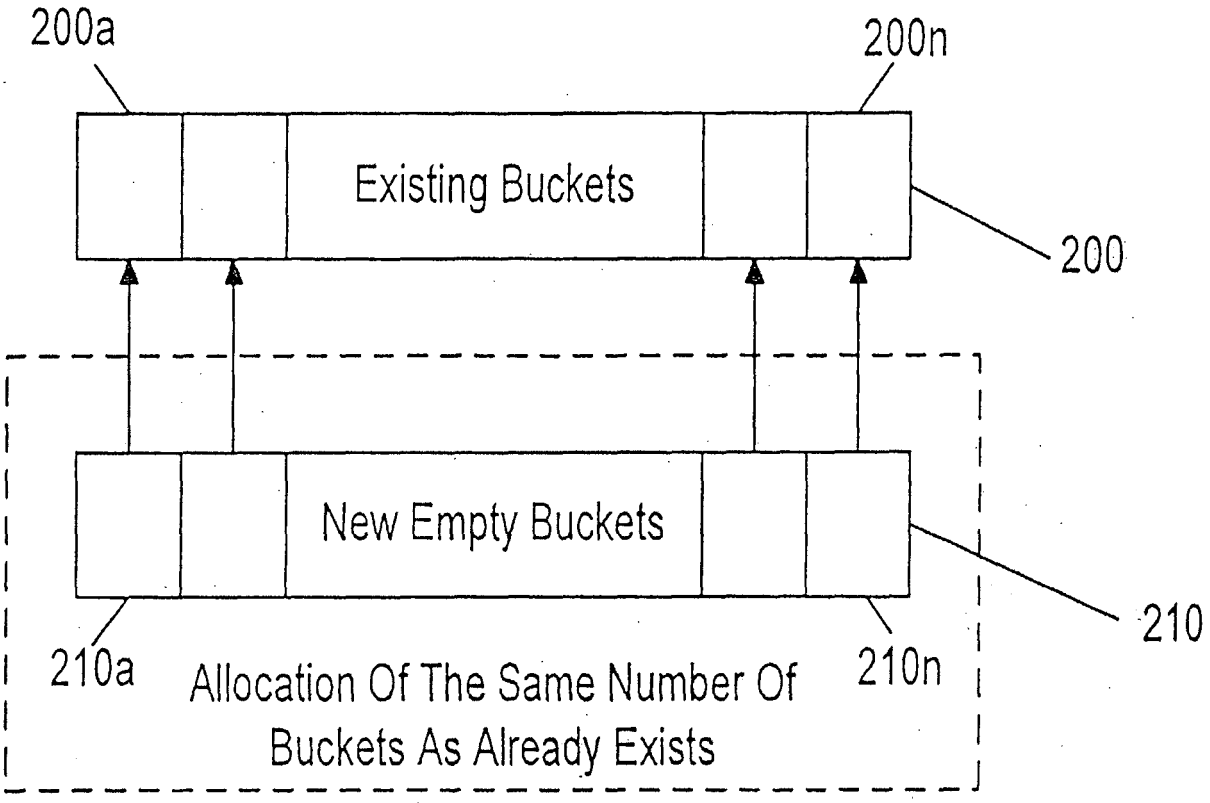
200a
200n
Existing Buckets
200
New Empty Buckets
210
210a
210n
Allocation Of The Same Number Of Buckets As Already Exists

FIG. 2B

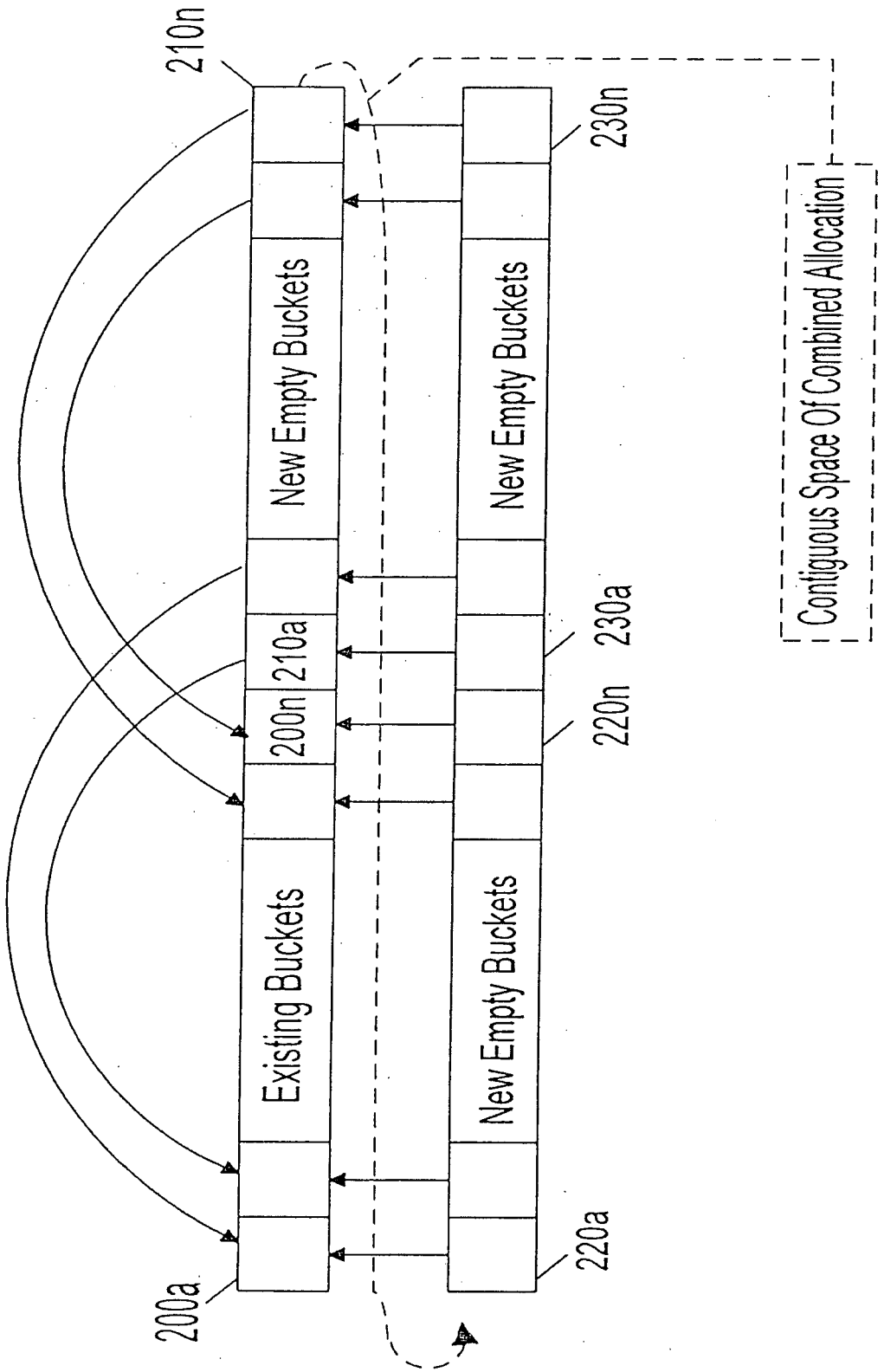
210n
New Empty Buckets
230n
New Empty Buckets
Contiguous Space Of Combined Allocation
210a
200n
230a
220n
Existing Buckets
New Empty Buckets
200a
220a

FIG. 2C

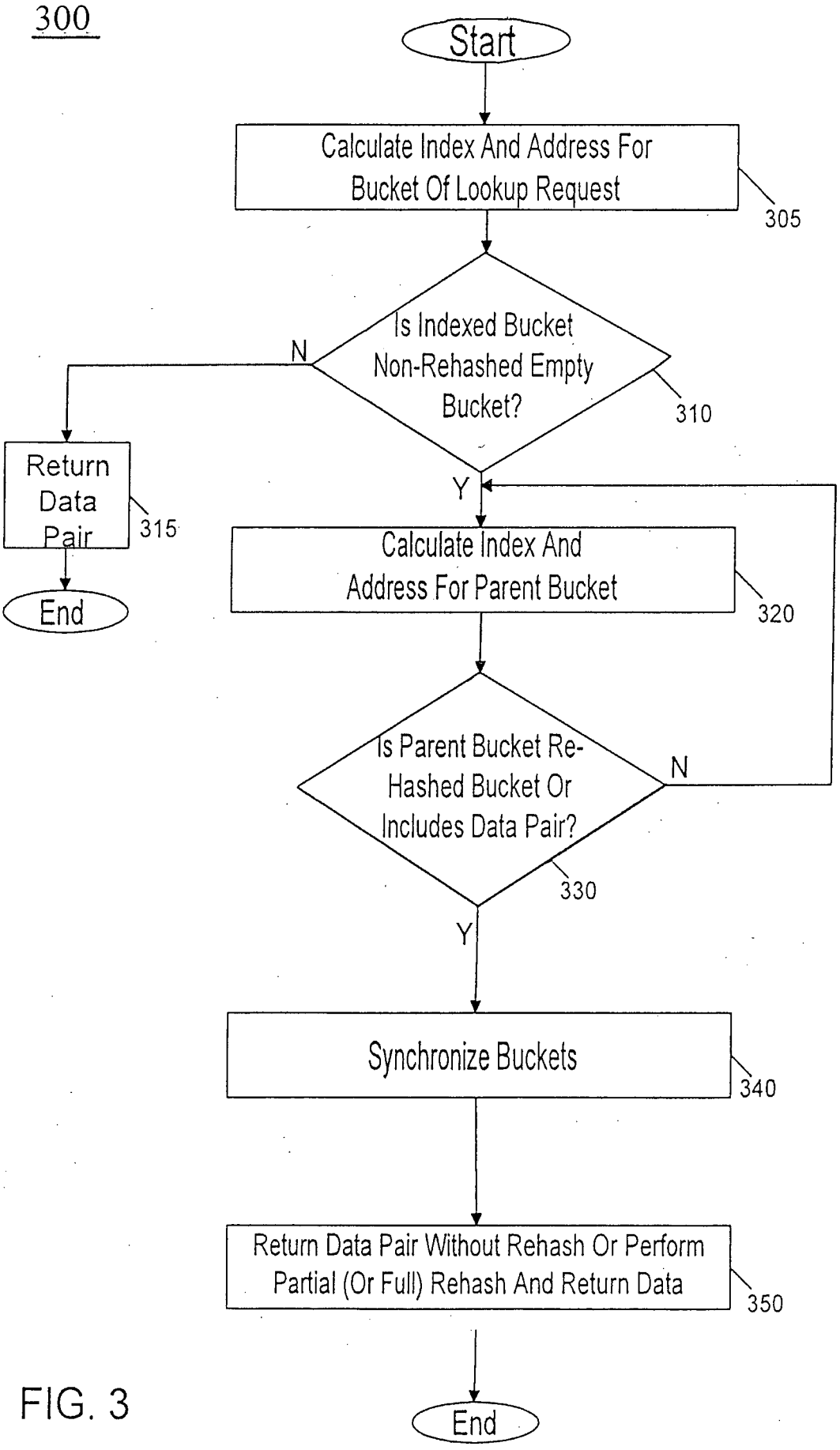
300
Start
Calculate Index And Address For Bucket Of Lookup Request
305
Is Indexed Bucket Non-Rehashed Empty Bucket?
310
N
Y
Return Data Pair
315
End
Calculate Index And Address For Parent Bucket
320
Is Parent Bucket Re-Hashed Bucket Or Includes Data Pair?
330
N
Y
Synchronize Buckets
340
Return Data Pair Without Rehash Or Perform Partial (Or Full) Rehash And Return Data
350
End

FIG. 3

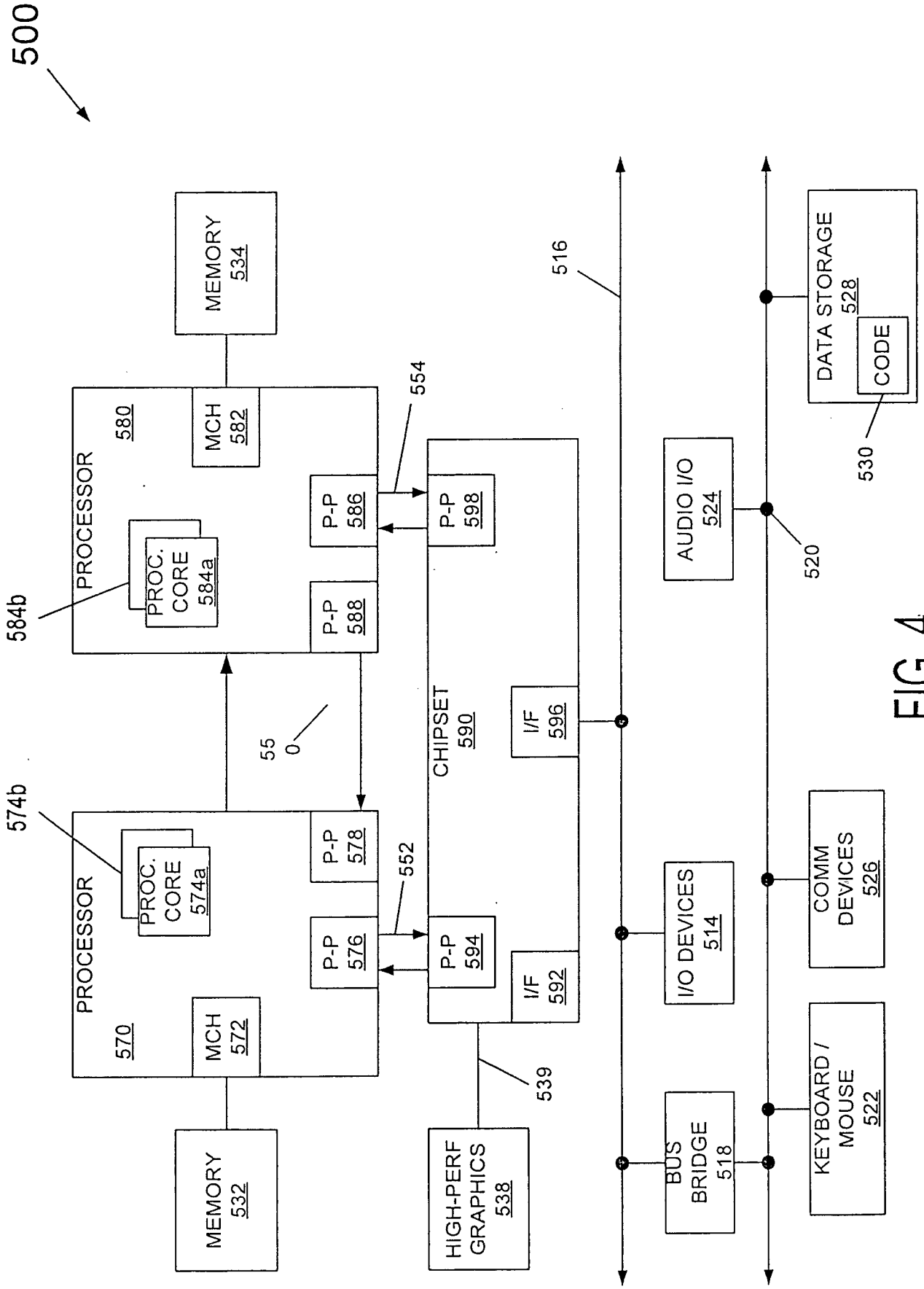
500
MEMORY 534
MCH 582
PROCESSOR 580
PROC. CORE 584a
584b
P-P 586
P-P 588
554
P-P 598
CHIPSET 590
I/F 596
I/F 592
P-P 594
552
P-P 576
P-P 578
PROCESSOR 570
PROC. CORE 574a
574b
MCH 572
MEMORY 532
HIGH-PERF GRAPHICS 538
539
55 0
516
DATA STORAGE 528
CODE
530
AUDIO I/O 524
520
I/O DEVICES 514
COMM DEVICES 526
BUS BRIDGE 518
KEYBOARD / MOUSE 522

FIG. 4