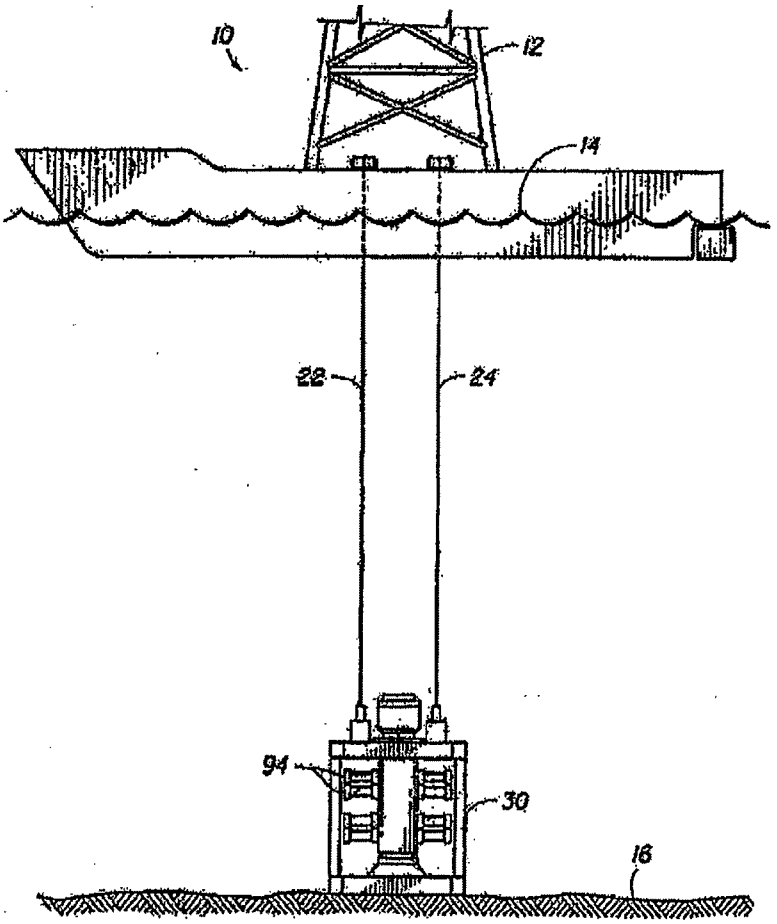



FIG. 1

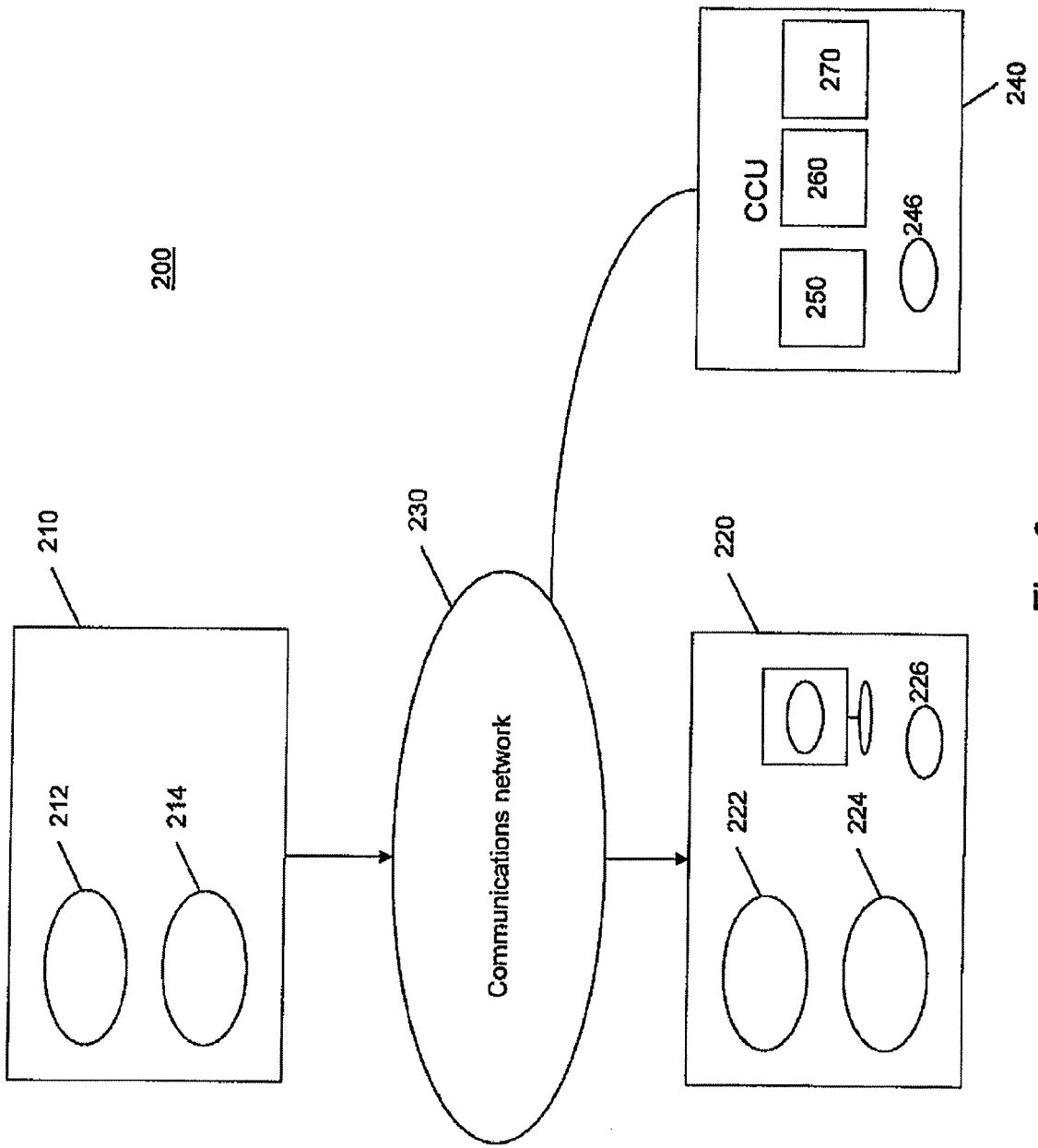

200
210
212
214
230
Communications network
220
222
224
226
240
CCU
250
260
270
246

Fig. 2

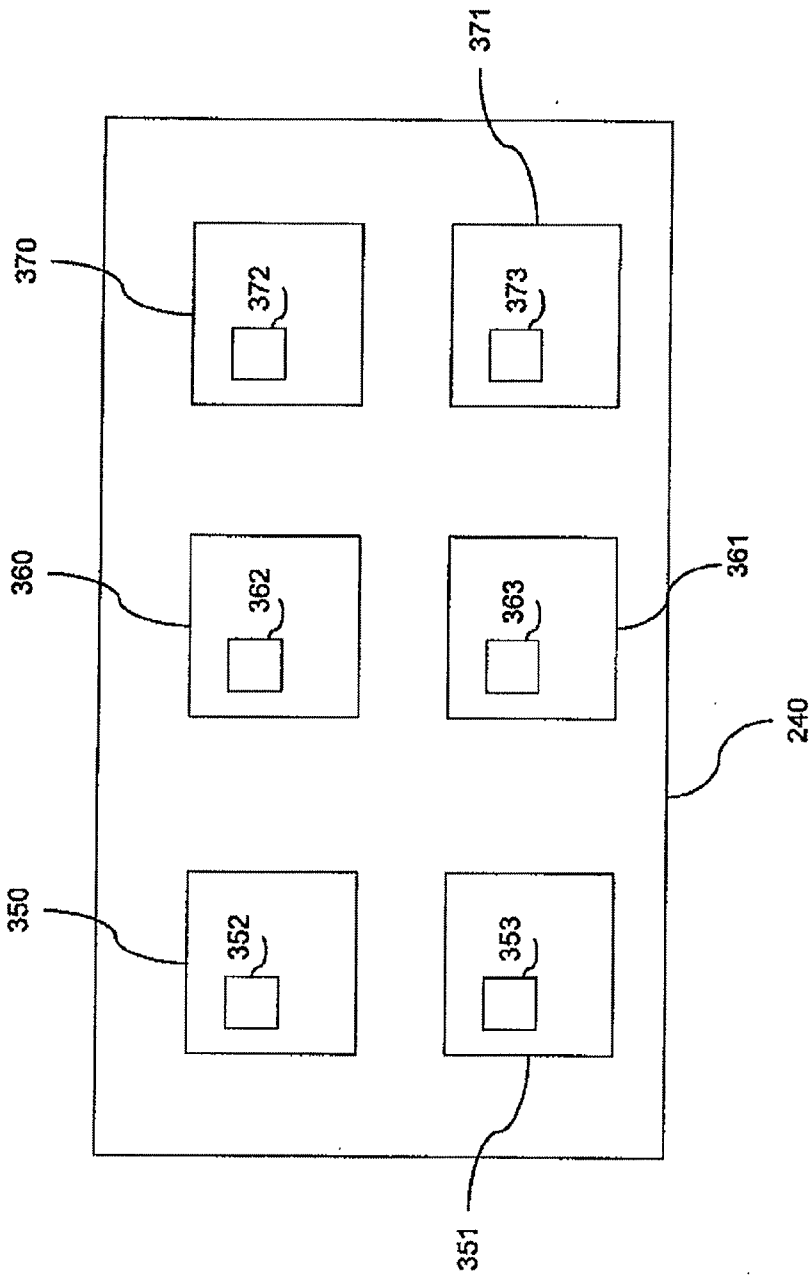



Fig. 3

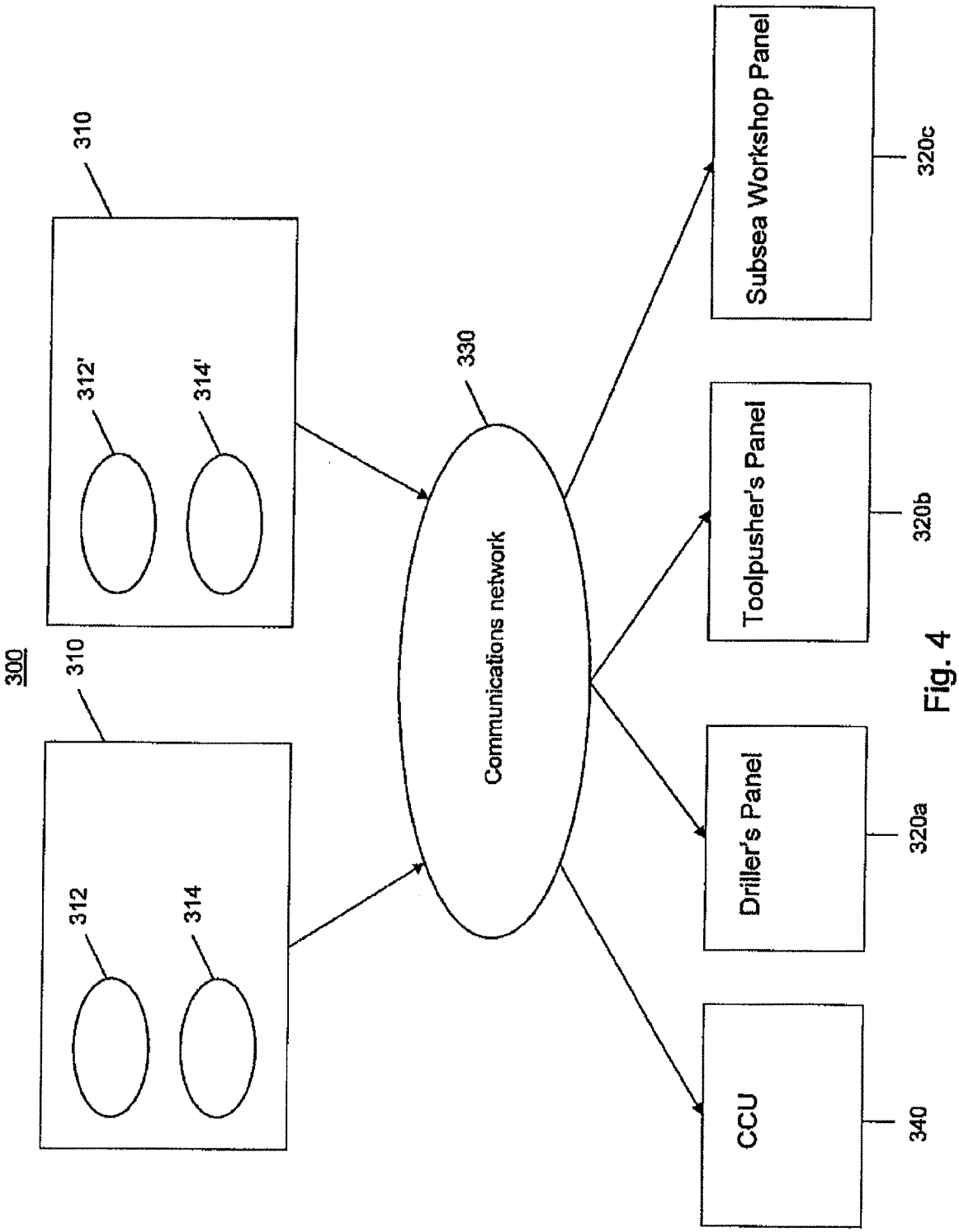

300
310
312
314
310
312'
314'
330
Communications network
Driller's Panel
320a
Toolpusher's Panel
320b
Subsea Workshop Panel
320c
CCU
340

Fig. 4

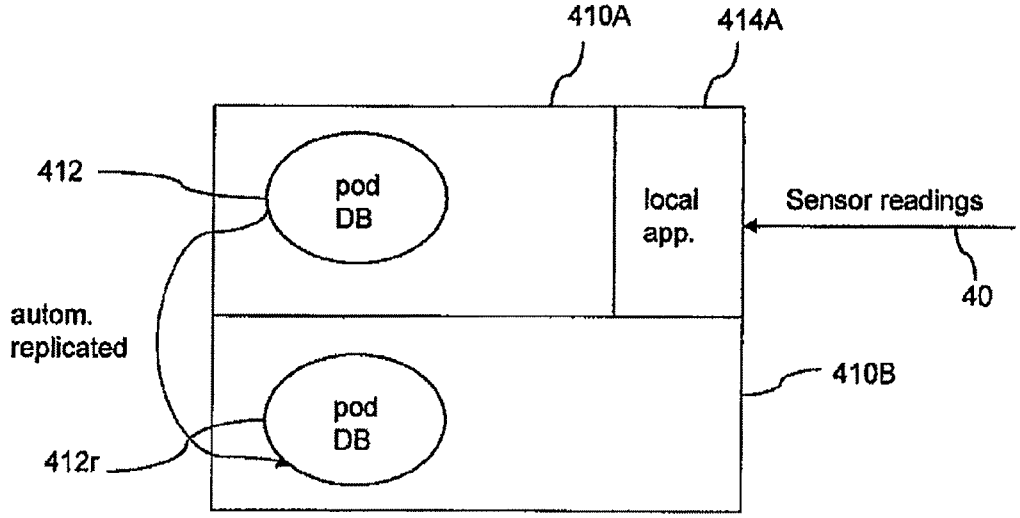

410A
414A
412
pod
DB
local
app.
Sensor readings
40
autom.
replicated
410B
pod
DB
412r

Fig. 5a

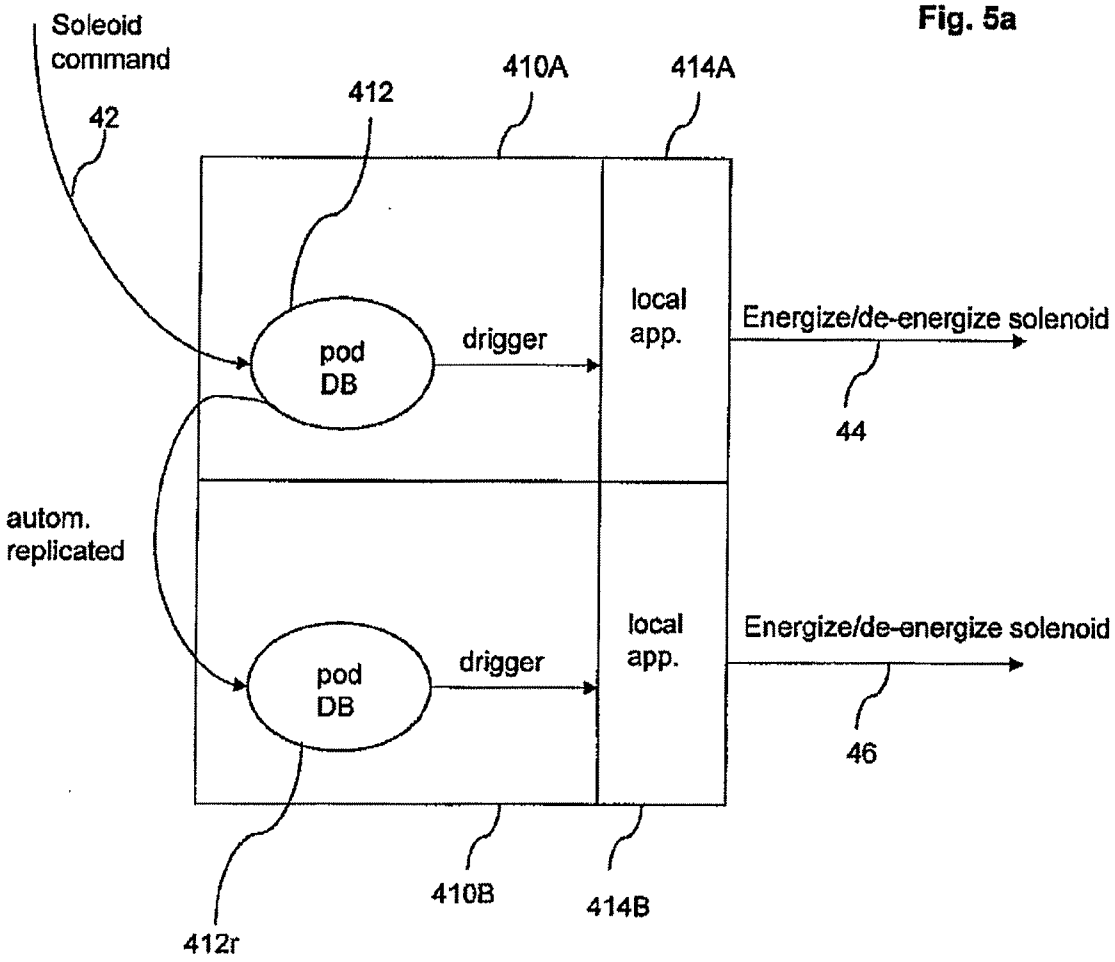

Soleoid
command
42
412
410A
414A
pod
DB
drigger
local
app.
Energize/de-energize solenoid
44
autom.
replicated
pod
DB
drigger
local
app.
Energize/de-energize solenoid
46
410B
414B
412r

Fig. 5b

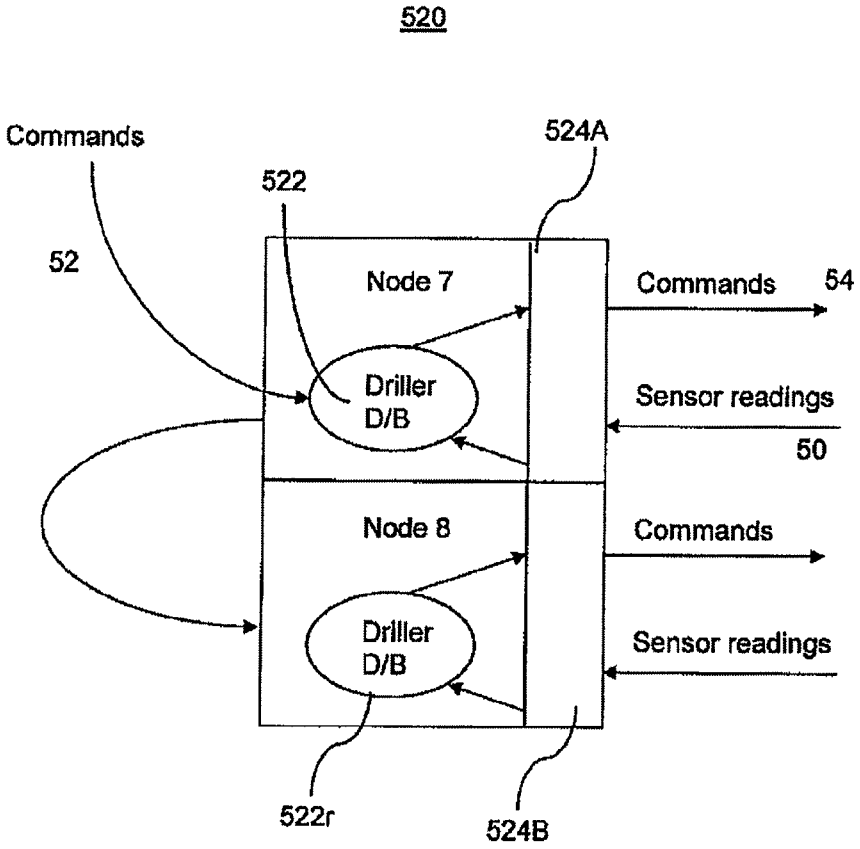

520
Commands
52
522
524A
Node 7
Driller
D/B
Commands
54
Sensor readings
50
Node 8
Driller
D/B
Commands
Sensor readings
522r
524B

Fig. 6

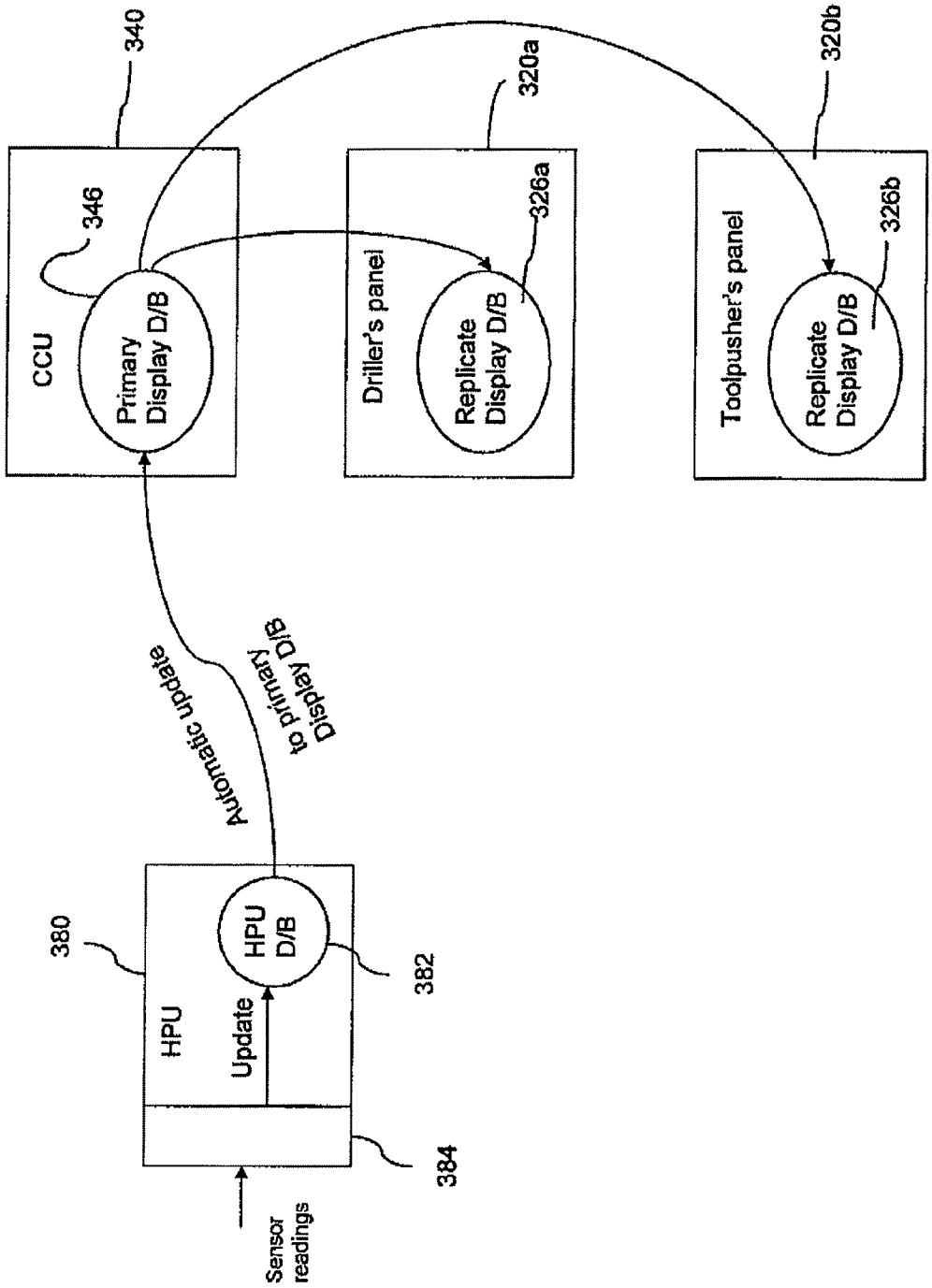

340
320a
320b
CCU
346
Primary Display D/B
Driller's panel
326a
Replicate Display D/B
Toolpusher's panel
326b
Replicate Display D/B
Automatic update
to primary Display D/B
380
HPU
Update
HPU D/B
382
384
Sensor readings

Fig. 7

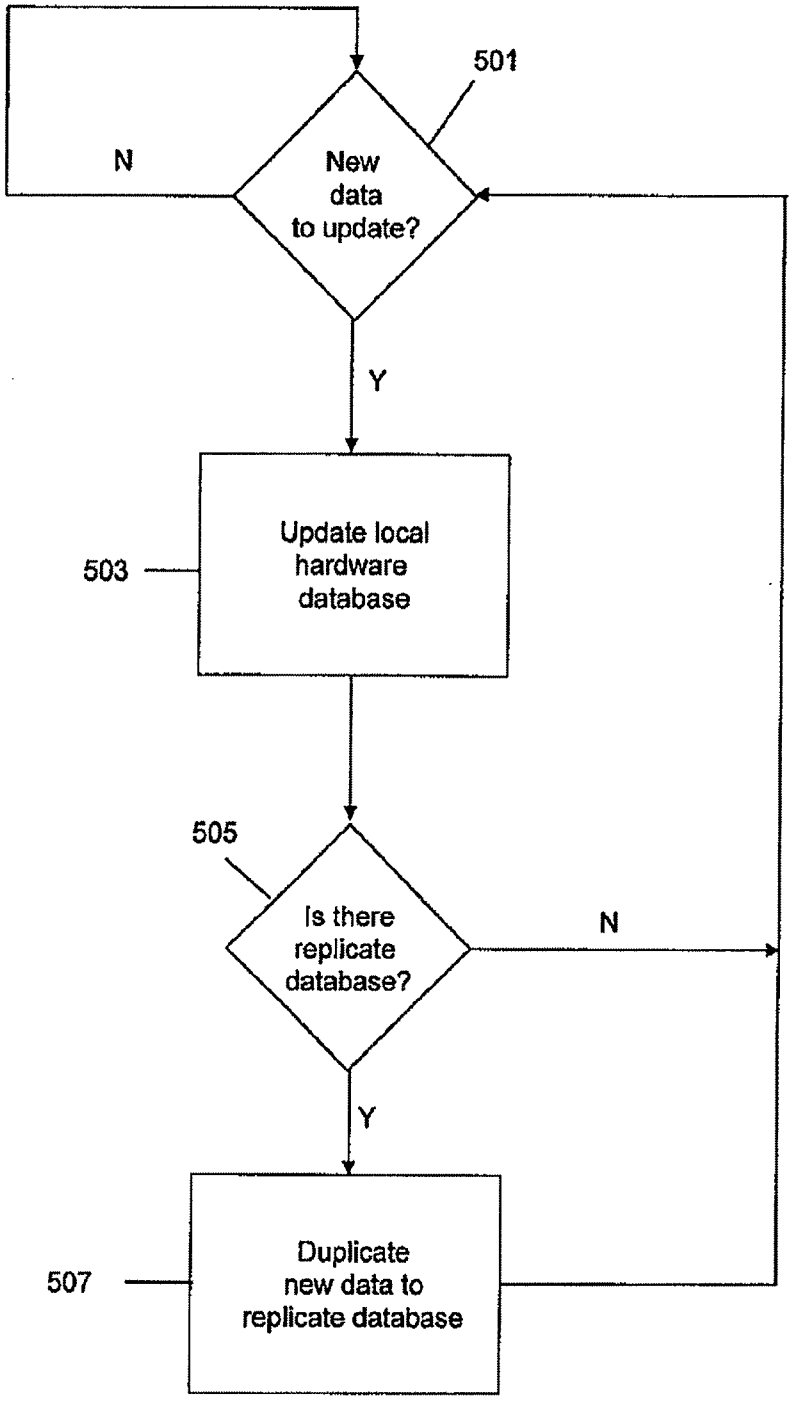

501
New data to update?
N
Y
Update local hardware database
503
505
Is there replicate database?
N
Y
Duplicate new data to replicate database
507

Fig. 8

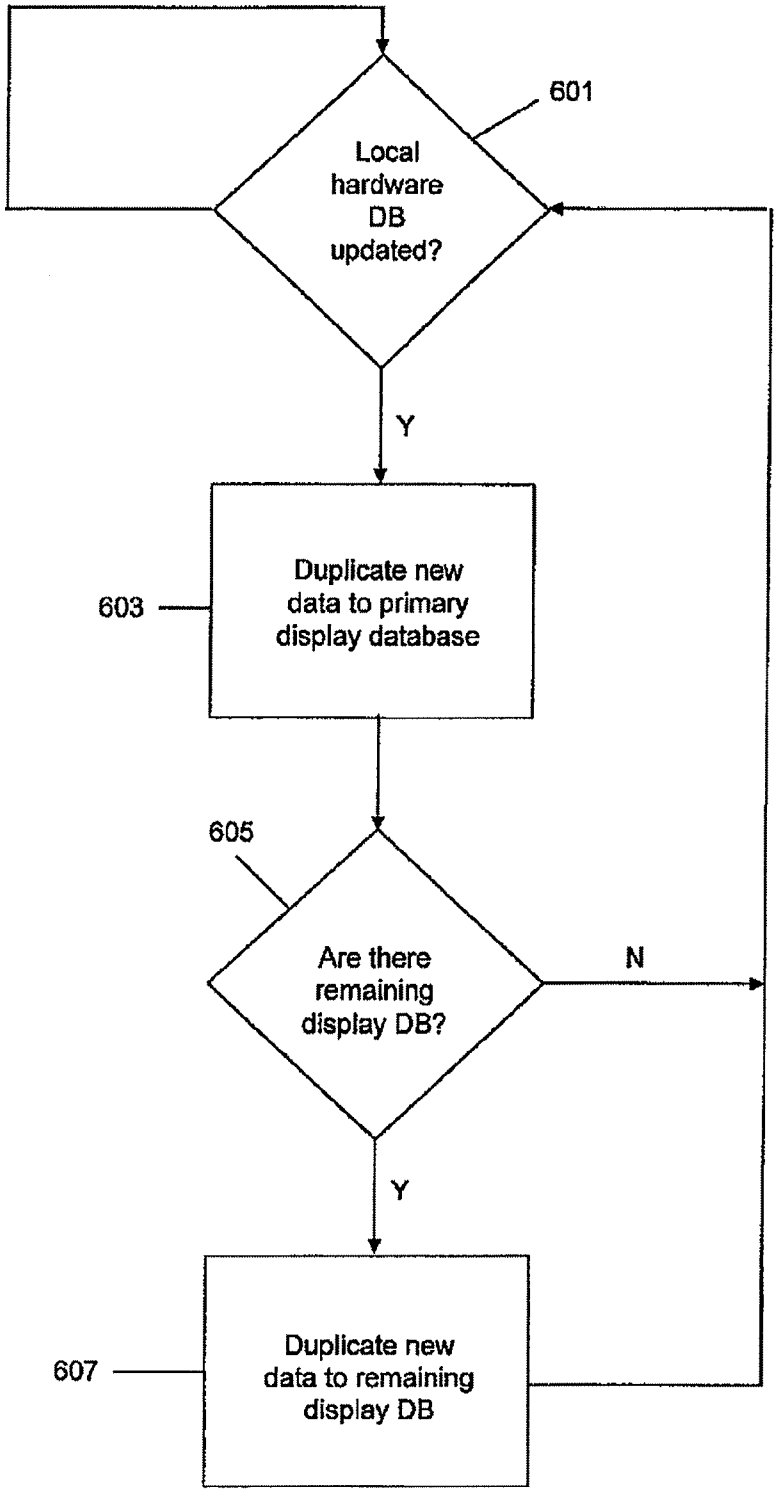

601
Local hardware DB updated?
Y
603
Duplicate new data to primary display database
605
Are there remaining display DB?
N
Y
607
Duplicate new data to remaining display DB

Fig. 9