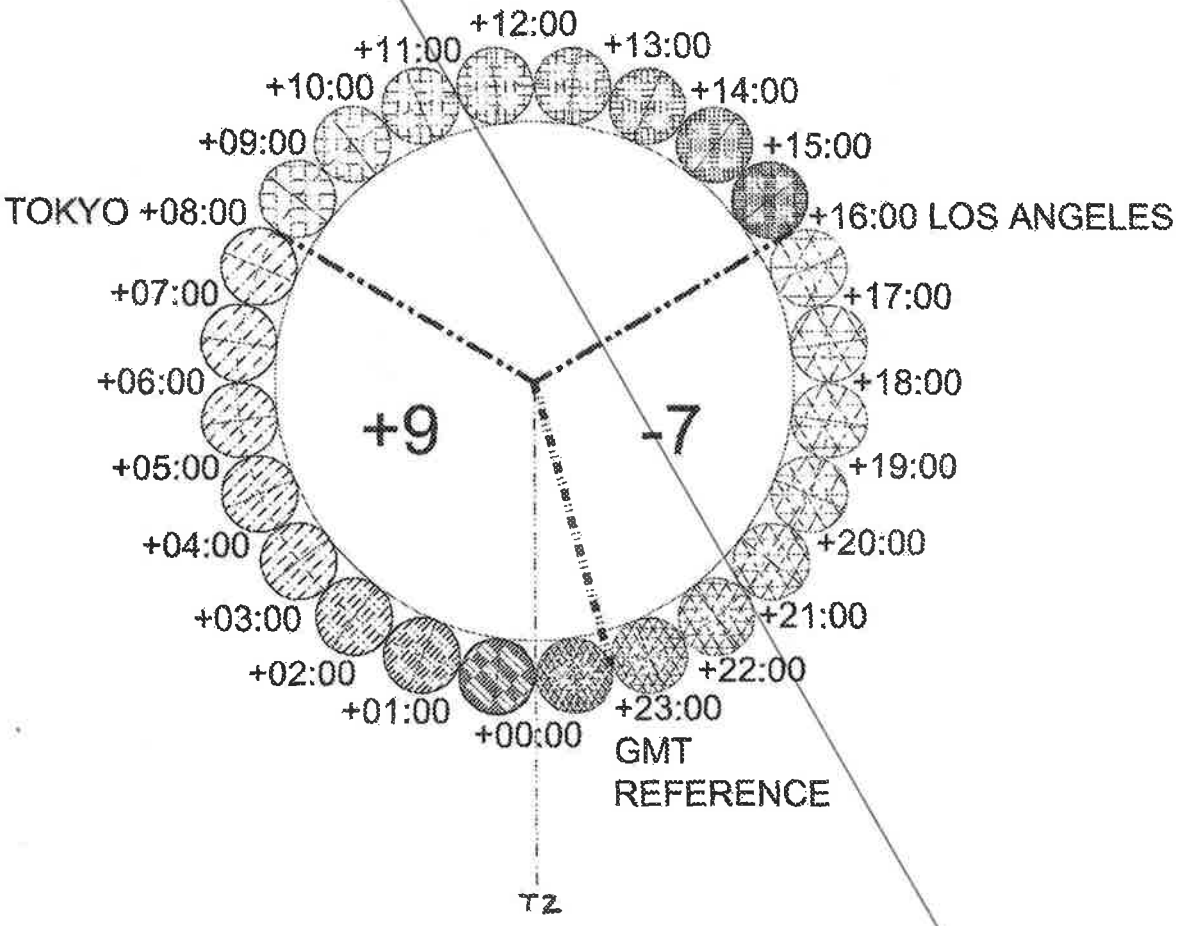

+12:00
+11:00
+13:00
+10:00
+14:00
+09:00
+15:00
TOKYO +08:00
+16:00 LOS ANGELES
+07:00
+17:00
+06:00
+18:00
+9
-7
+05:00
+19:00
+04:00
+20:00
+03:00
+21:00
+02:00
+22:00
+01:00
+23:00
+00:00
GMT
REFERENCE
T2

FIG. 1

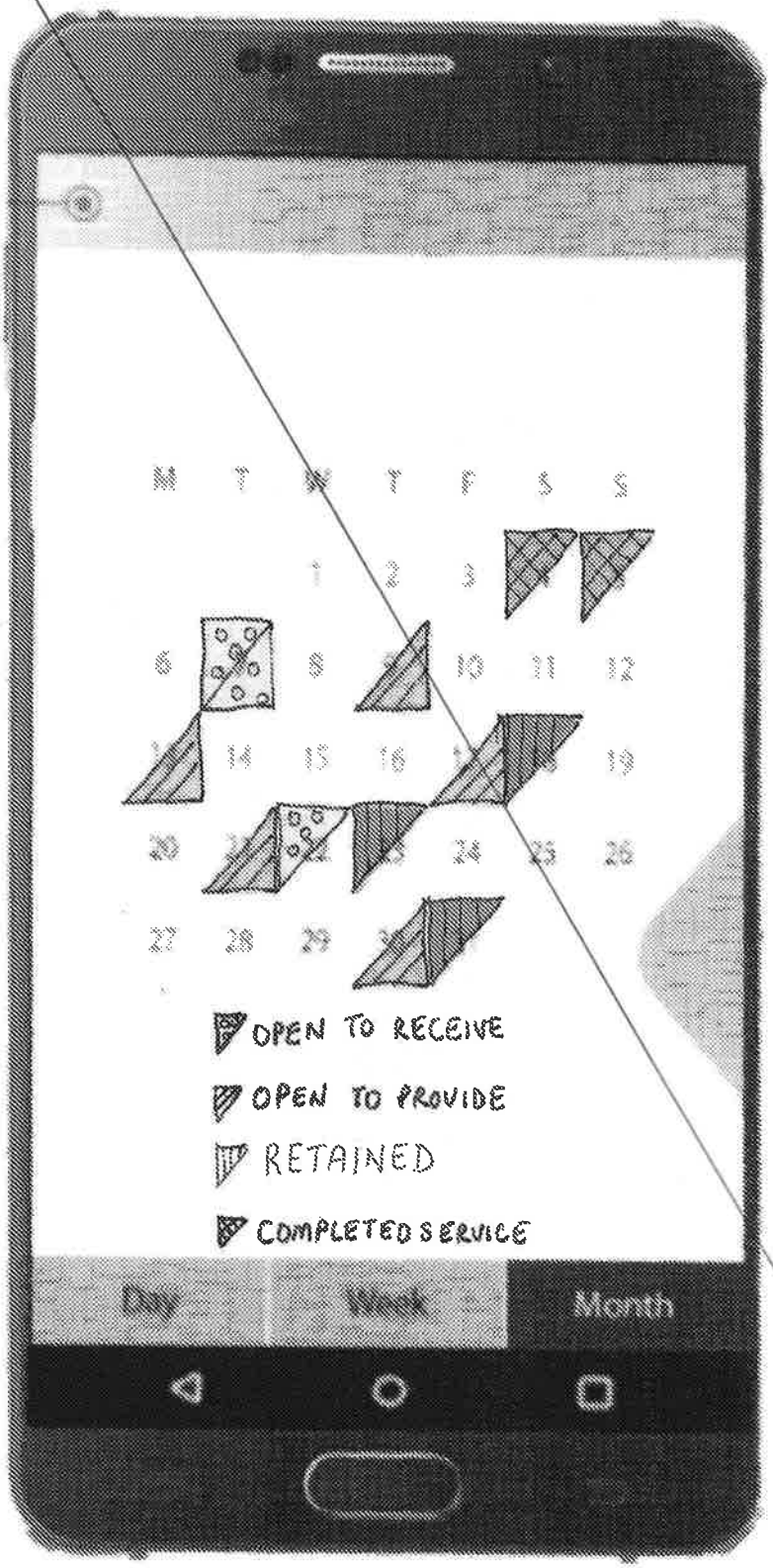

M T W T F S S
OPEN TO RECEIVE
OPEN TO PROVIDE
RETAINED
COMPLETED SERVICE
Day
Week
Month

FIG. 2A

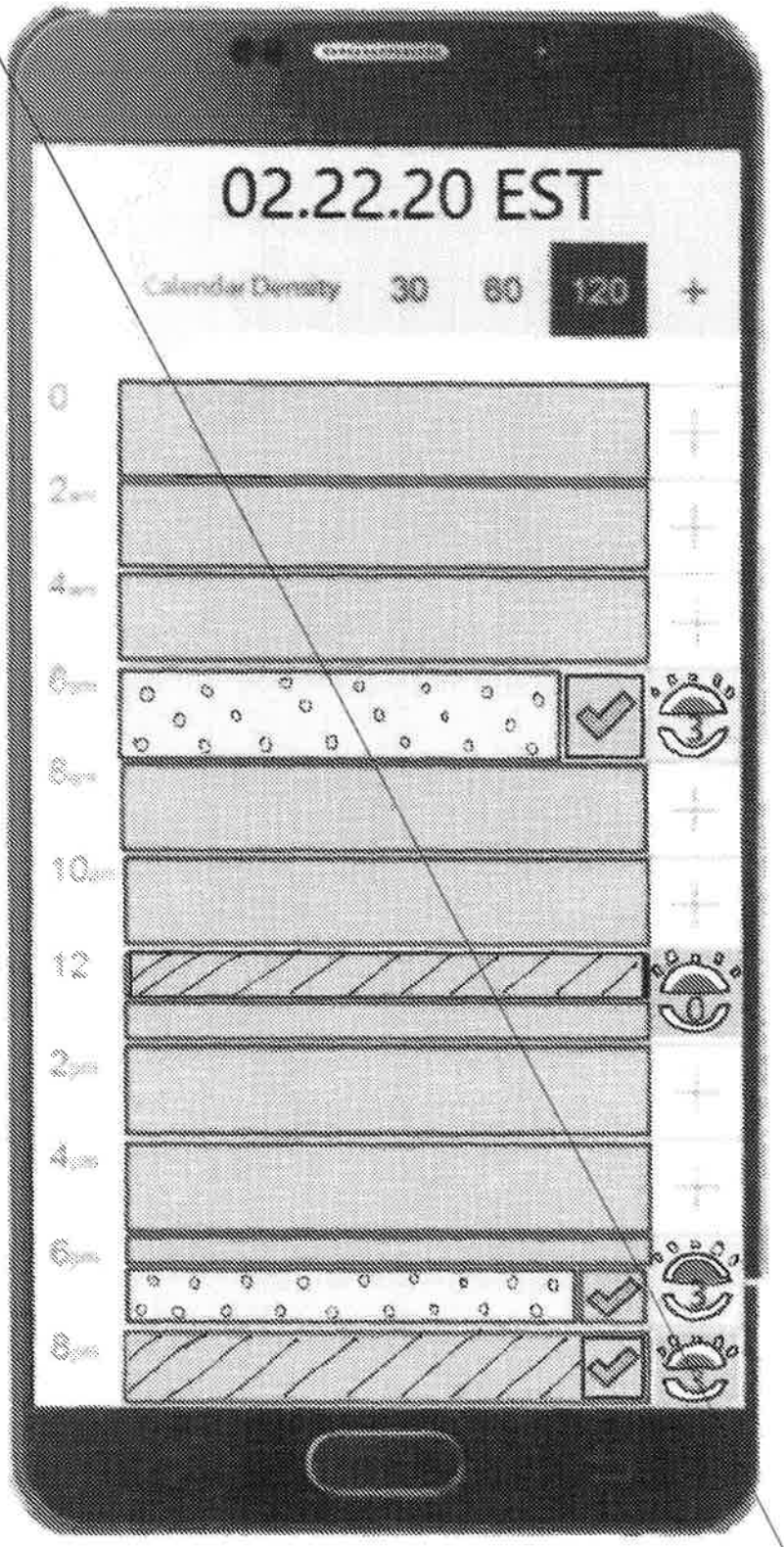


FIG. 2B

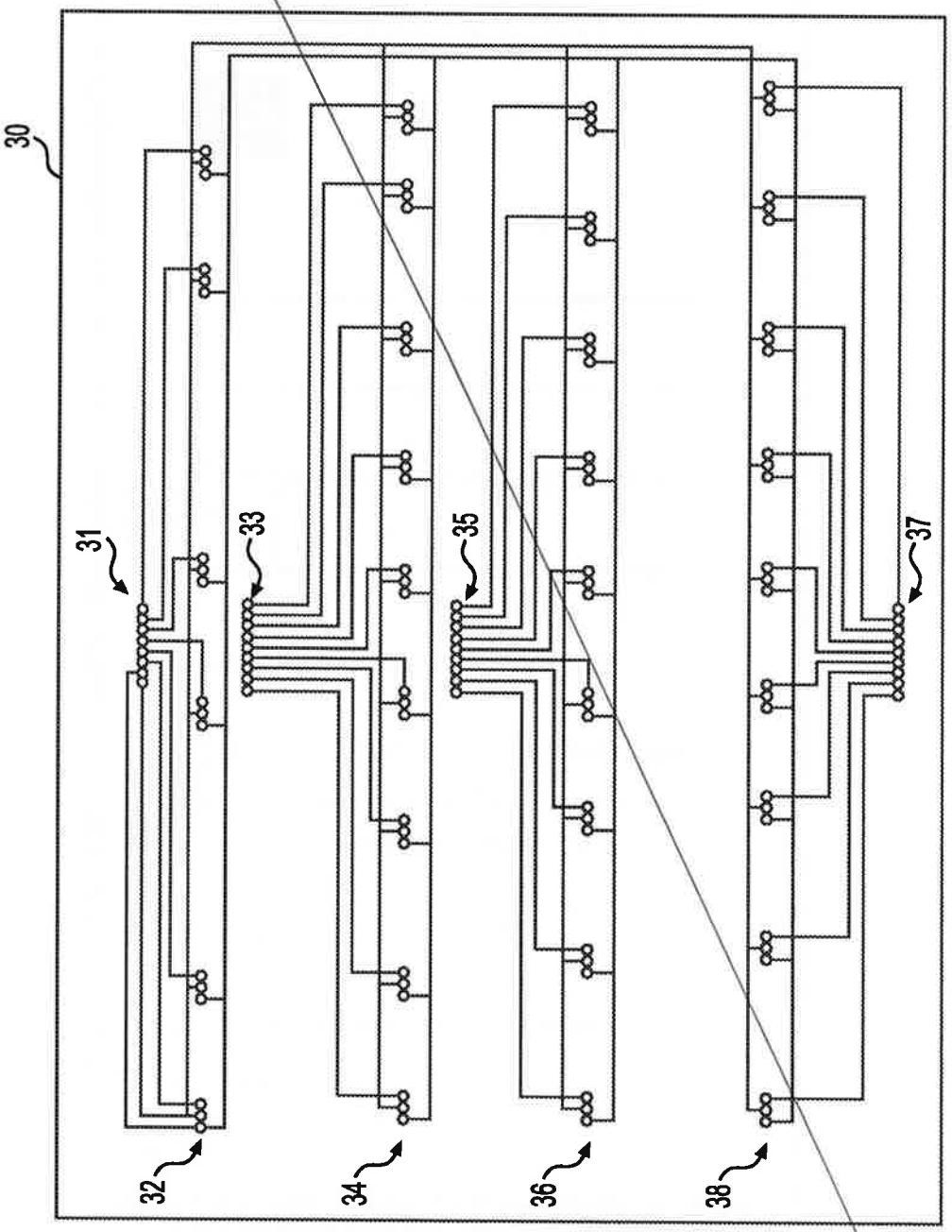


FIG. 3

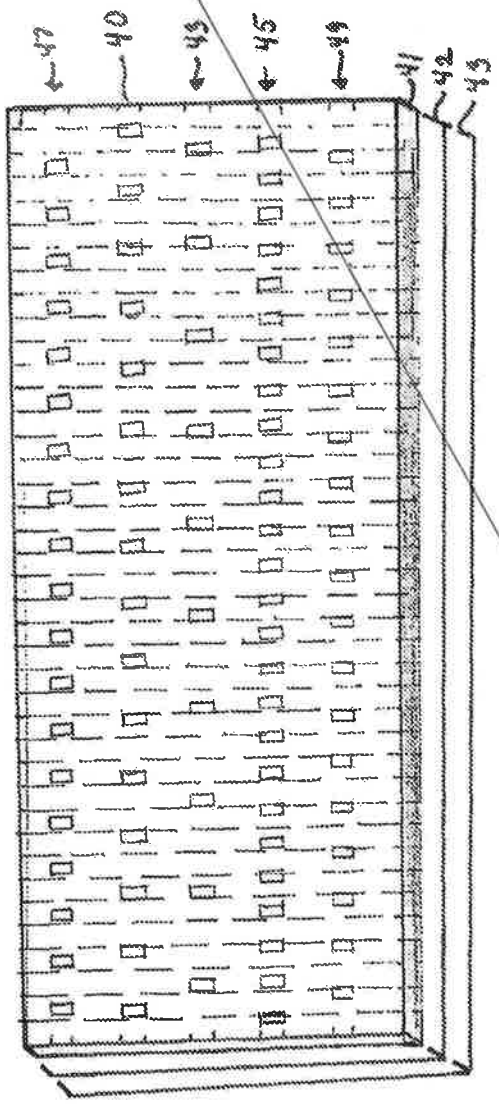


FIG. 4.

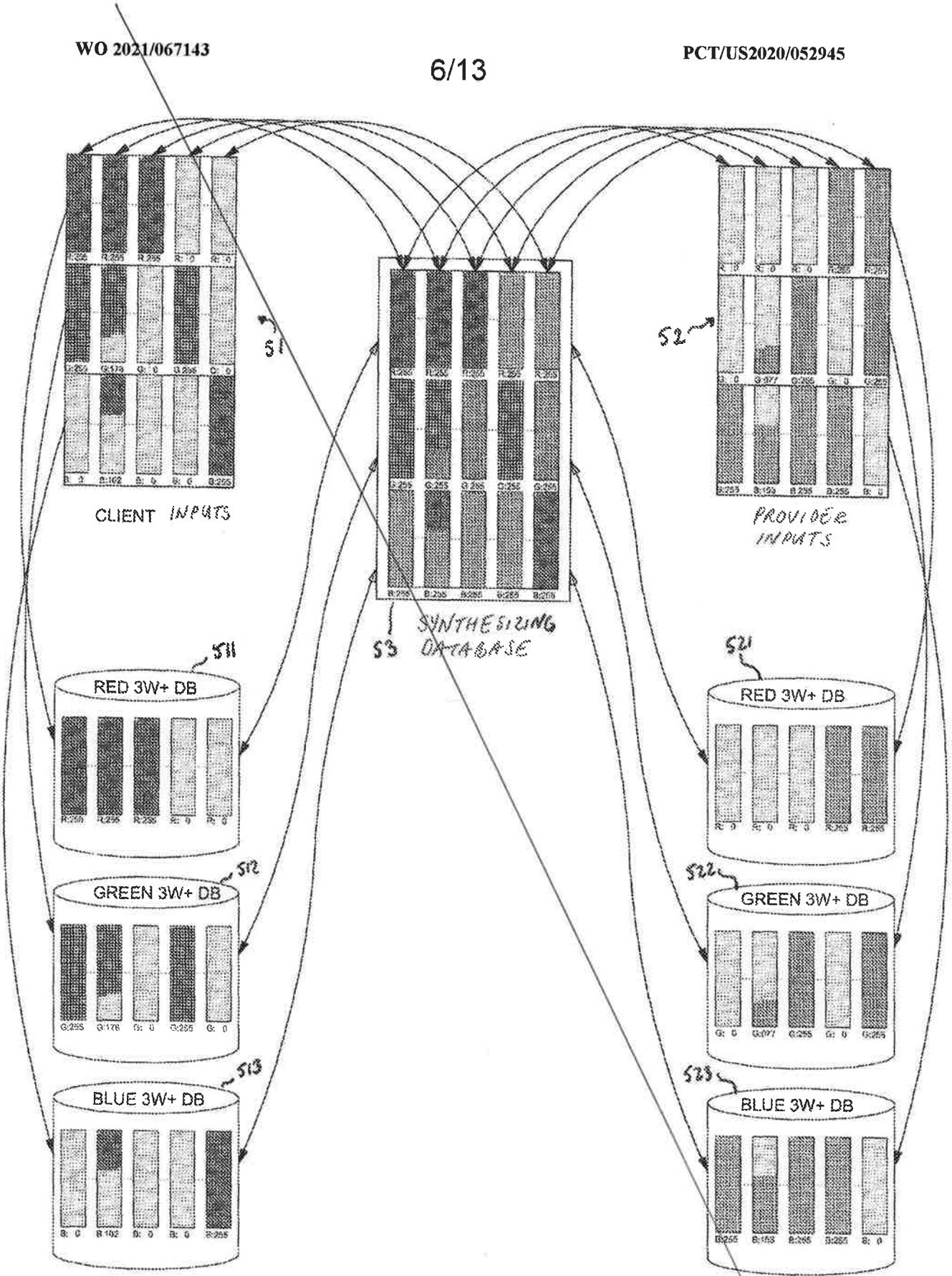

CLIENT INPUTS
51
52
PROVIDER INPUTS
SYNTHESIZING DATABASE
53
511
RED 3W+ DB
512
GREEN 3W+ DB
513
BLUE 3W+ DB
521
RED 3W+ DB
522
GREEN 3W+ DB
523
BLUE 3W+ DB

FIG. 5

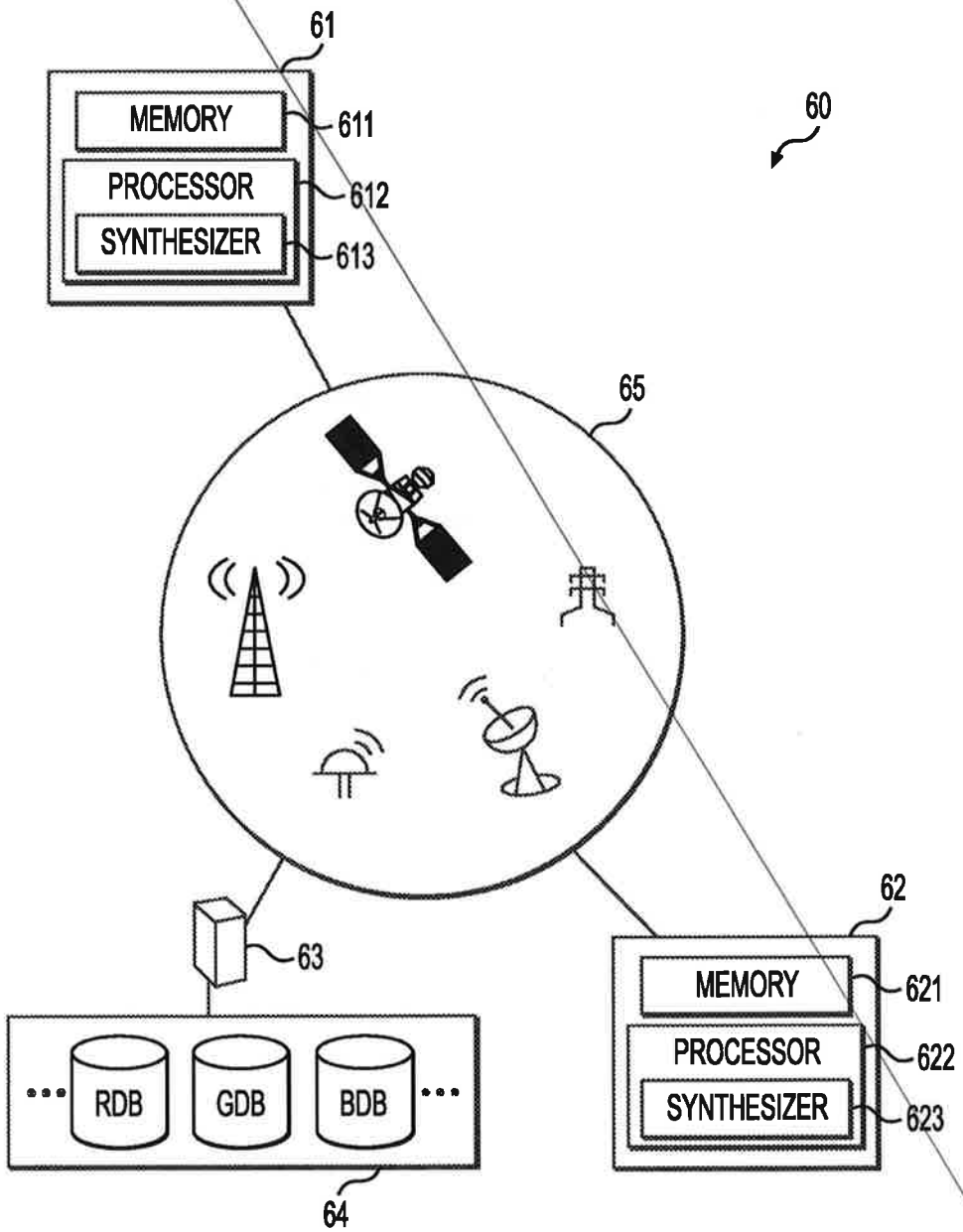

61
MEMORY
611
PROCESSOR
612
SYNTHESIZER
613
60
65
63
62
MEMORY
621
PROCESSOR
622
SYNTHESIZER
623
RDB
GDB
BDB
64

FIG. 6A

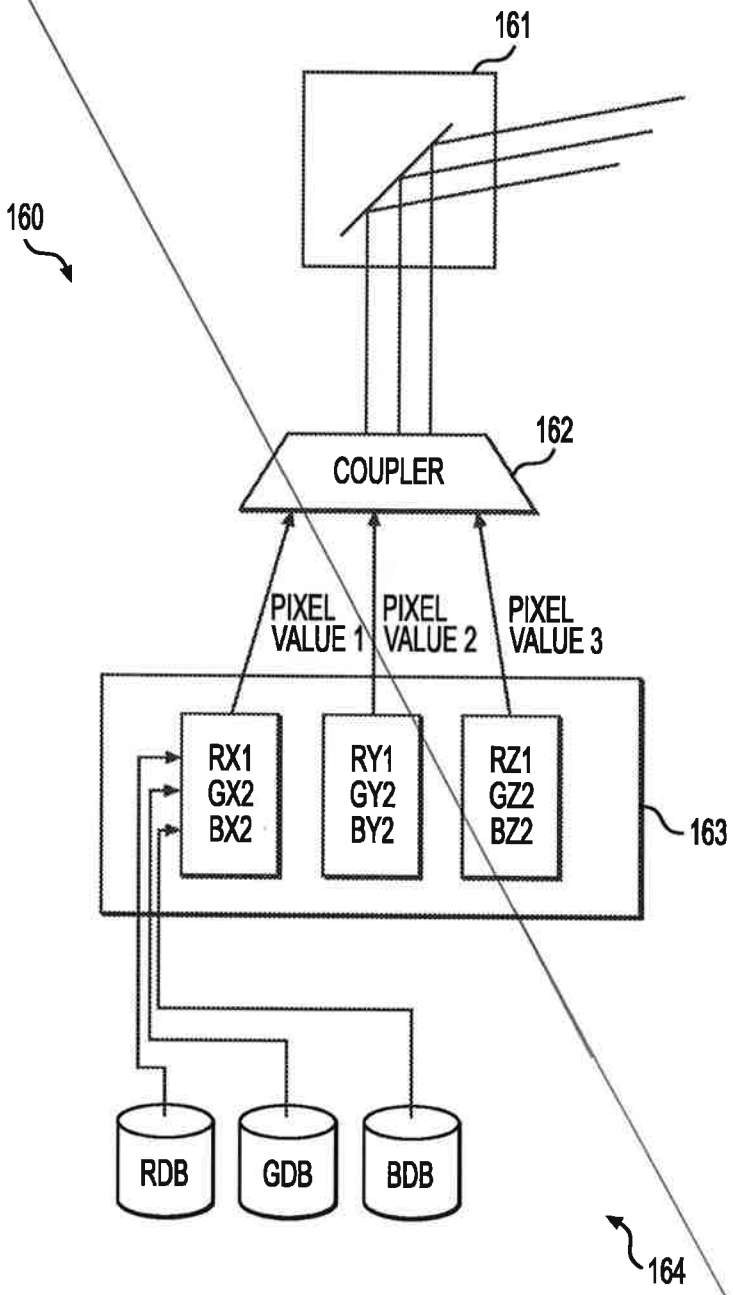
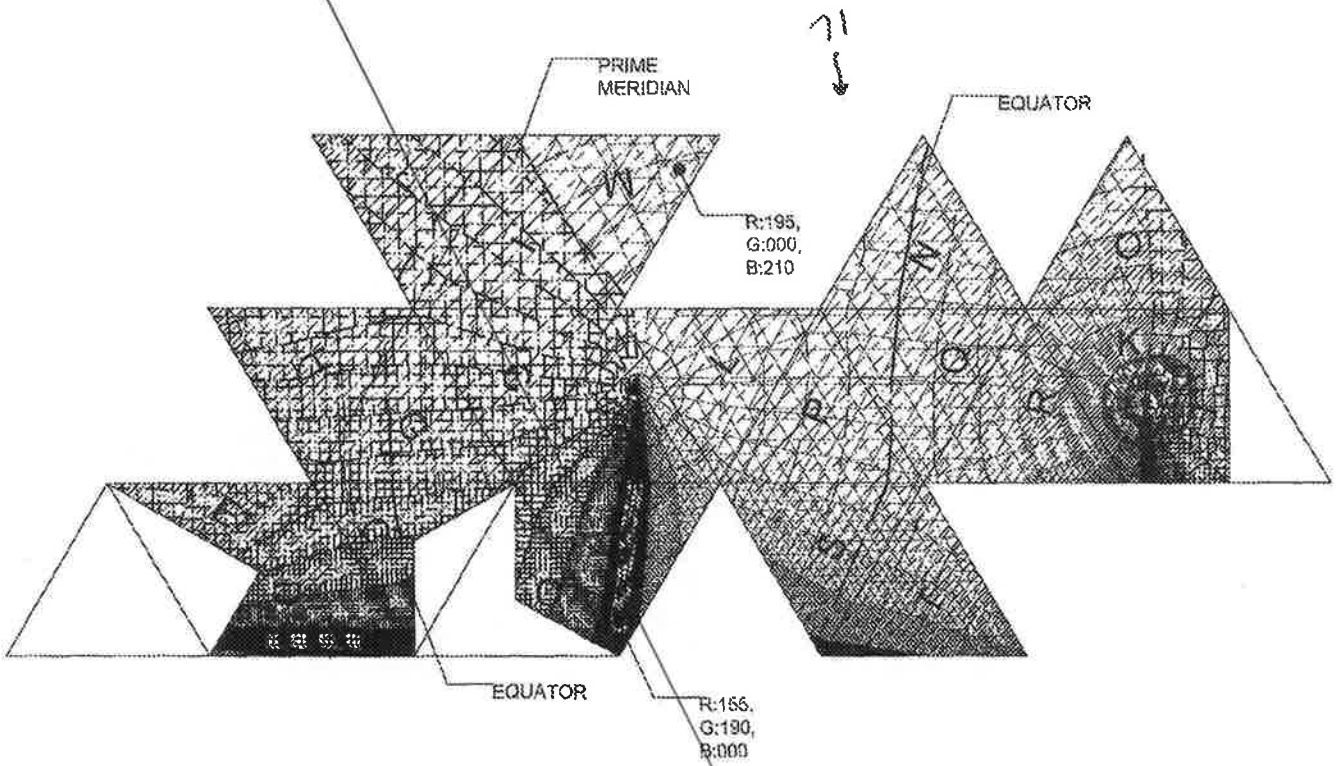

161
160
162
COUPLER
PIXEL VALUE 1
PIXEL VALUE 2
PIXEL VALUE 3
RX1 GX2 BX2
RY1 GY2 BY2
RZ1 GZ2 BZ2
163
RDB
GDB
BDB
164

FIG. 6B

FIG. 7A


71
PRIME MERIDIAN
EQUATOR
R:195, G:000, B:210
EQUATOR
R:155, G:190, B:000

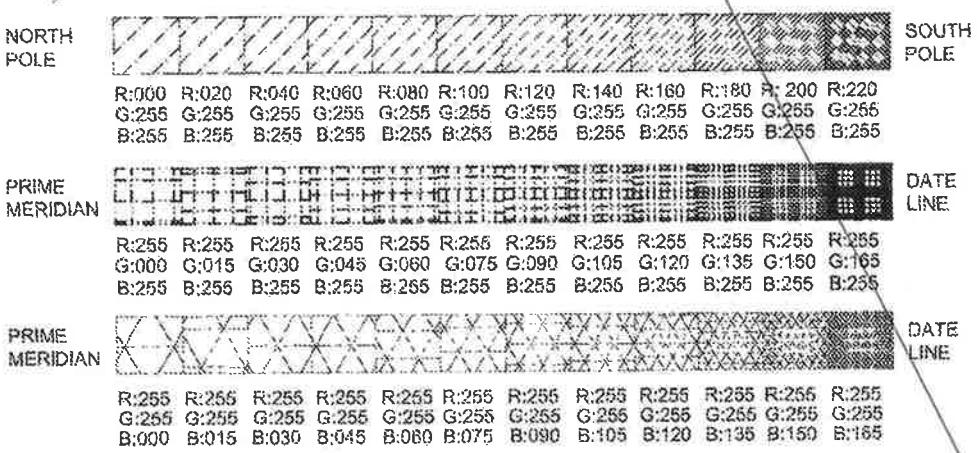
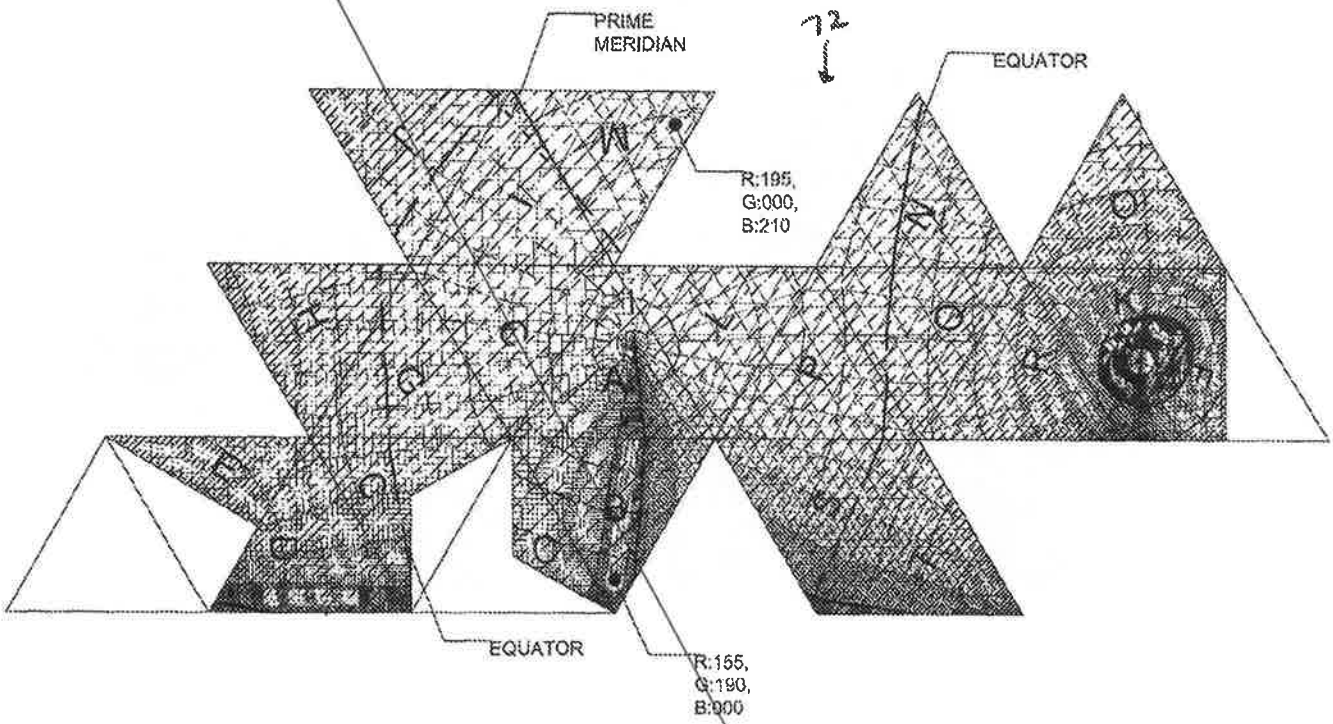
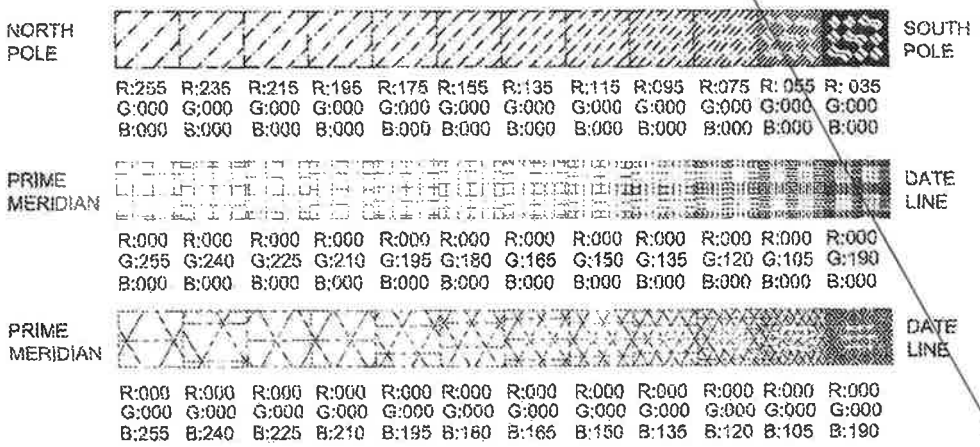

NORTH POLE
SOUTH POLE
R:000 R:020 R:040 R:060 R:080 R:100 R:120 R:140 R:160 R:180 R:200 R:220
G:255 G:255 G:255 G:255 G:255 G:255 G:255 G:255 G:255 G:255 G:255 G:255
B:255 B:255 B:255 B:255 B:255 B:255 B:255 B:255 B:255 B:255 B:255 B:255
PRIME MERIDIAN
DATE LINE
R:255 R:255 R:255 R:255 R:255 R:255 R:255 R:255 R:255 R:255 R:255 R:255
G:000 G:015 G:030 G:045 G:060 G:075 G:090 G:105 G:120 G:135 G:150 G:165
B:255 B:255 B:255 B:255 B:255 B:255 B:255 B:255 B:255 B:255 B:255 B:255
PRIME MERIDIAN
DATE LINE
R:255 R:255 R:255 R:255 R:255 R:255 R:255 R:255 R:255 R:255 R:255 R:255
G:255 G:255 G:255 G:255 G:255 G:255 G:255 G:255 G:255 G:255 G:255 G:255
B:000 B:015 B:030 B:045 B:060 B:075 B:090 B:105 B:120 B:135 B:150 B:165

FIG. 7B


PRIME MERIDIAN
72
EQUATOR
R:195, G:000, B:210
EQUATOR
R:155, G:190, B:000


NORTH POLE
SOUTH POLE
R:255 R:235 R:215 R:195 R:175 R:155 R:135 R:115 R:095 R:075 R: 055 R: 035
G:000 G:000 G:000 G:000 G:000 G:000 G:000 G:000 G:000 G:000 G:000 G:000
B:000 B:000 B:000 B:000 B:000 B:000 B:000 B:000 B:000 B:000 B:000 B:000
PRIME MERIDIAN
DATE LINE
R:000 R:000 R:000 R:000 R:000 R:000 R:000 R:000 R:000 R:000 R:000 R:000
G:255 G:240 G:225 G:210 G:195 G:180 G:165 G:150 G:135 G:120 G:105 G:190
B:000 B:000 B:000 B:000 B:000 B:000 B:000 B:000 B:000 B:000 B:000 B:000
PRIME MERIDIAN
DATE LINE
R:000 R:000 R:000 R:000 R:000 R:000 R:000 R:000 R:000 R:000 R:000 R:000
G:000 G:000 G:000 G:000 G:000 G:000 G:000 G:000 G:000 G:000 G:000 G:000
B:255 B:240 B:225 B:210 B:195 B:180 B:165 B:150 B:135 B:120 B:105 B:190

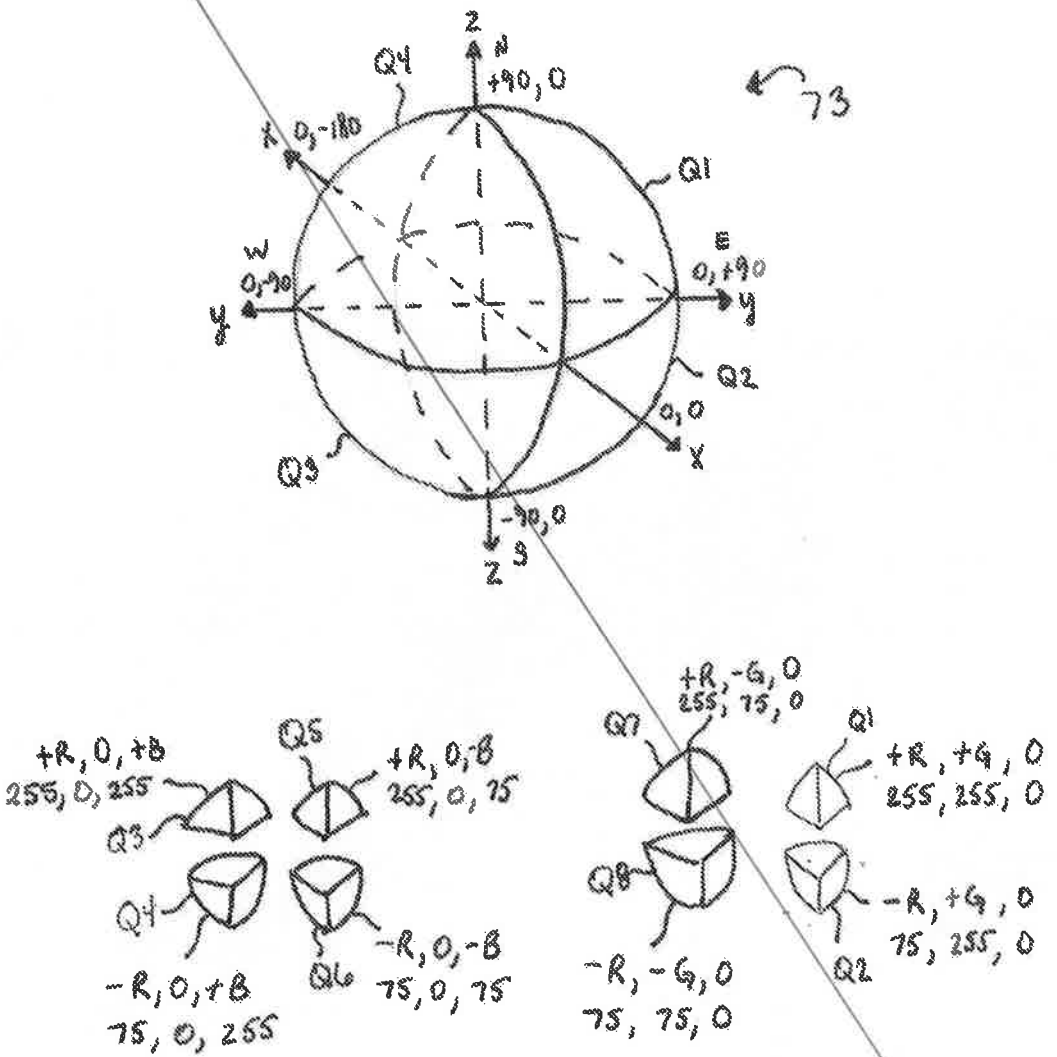

Z
N
+90, 0
Q4
Q1
73
X 0, -180
W
0, -90
y
E
0, +90
y
Q2
0, 0
X
Q3
-90, 0
Z S
+R, 0, +B
255, 0, 255
Q5
+R, 0, -B
255, 0, 75
Q3
Q4
-R, 0, +B
75, 0, 255
Q6
-R, 0, -B
75, 0, 75
+R, -G, 0
255, 75, 0
Q7
Q1
+R, +G, 0
255, 255, 0
Q8
-R, +G, 0
75, 255, 0
-R, -G, 0
75, 75, 0
Q2

FIG. 7C

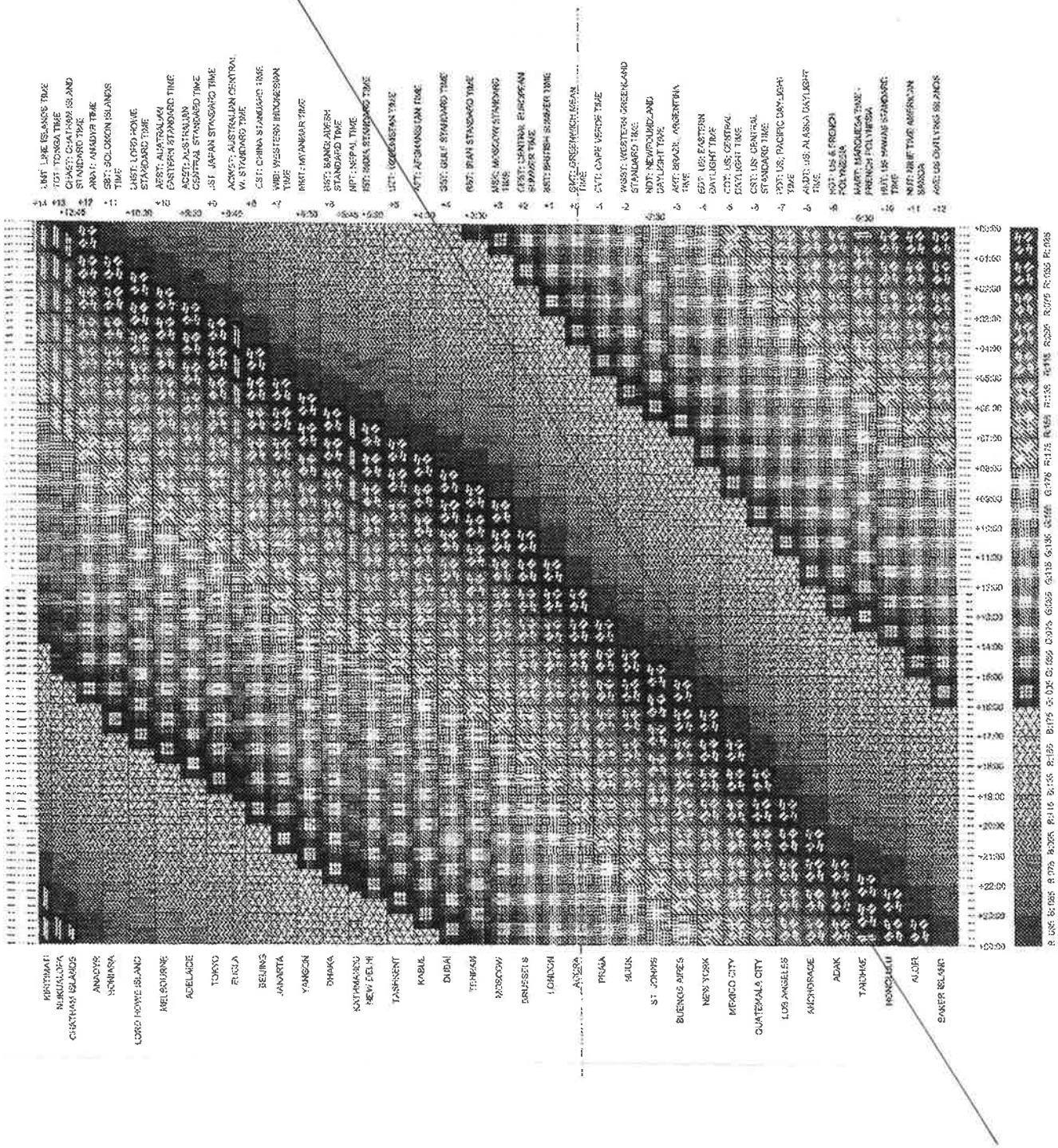


Fig. 8

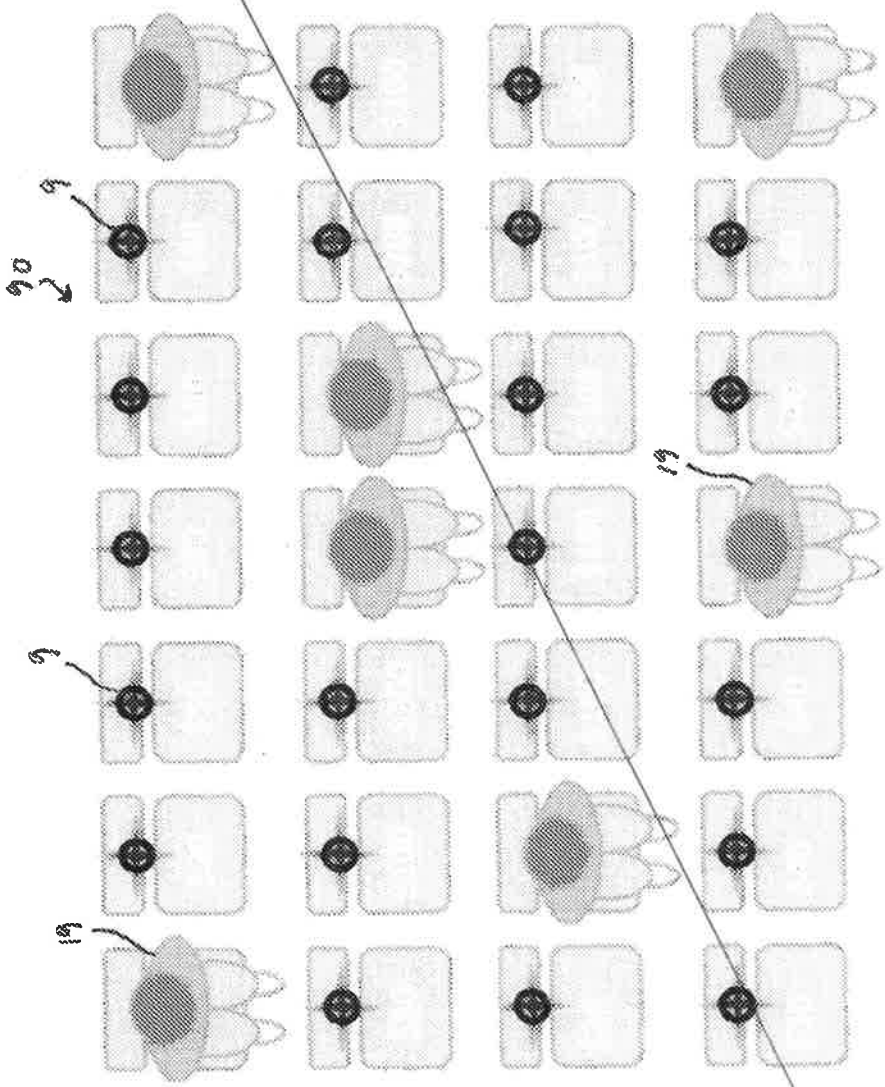


FIG. 9

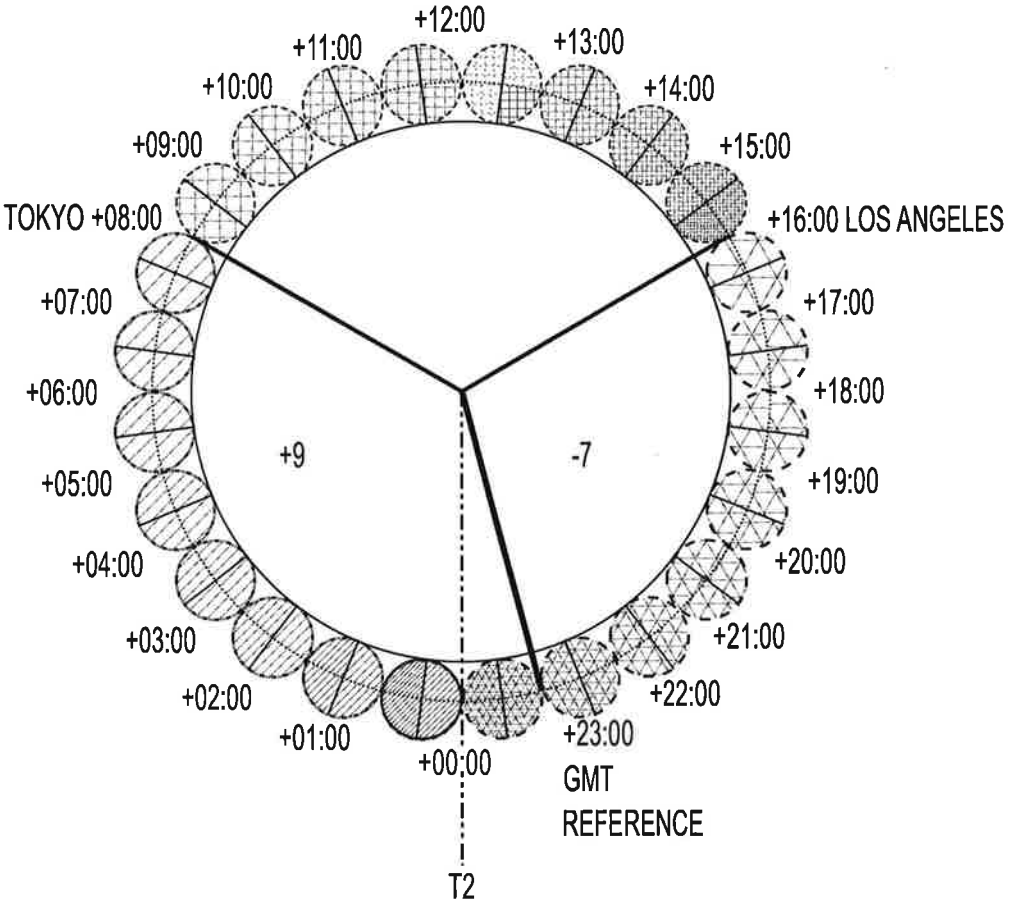

+12:00
+11:00
+13:00
+10:00
+14:00
+09:00
+15:00
TOKYO +08:00
+16:00 LOS ANGELES
+07:00
+17:00
+06:00
+18:00
+9
-7
+05:00
+19:00
+04:00
+20:00
+03:00
+21:00
+02:00
+22:00
+01:00
+23:00
+00:00
GMT
REFERENCE
T2

FIG. 1

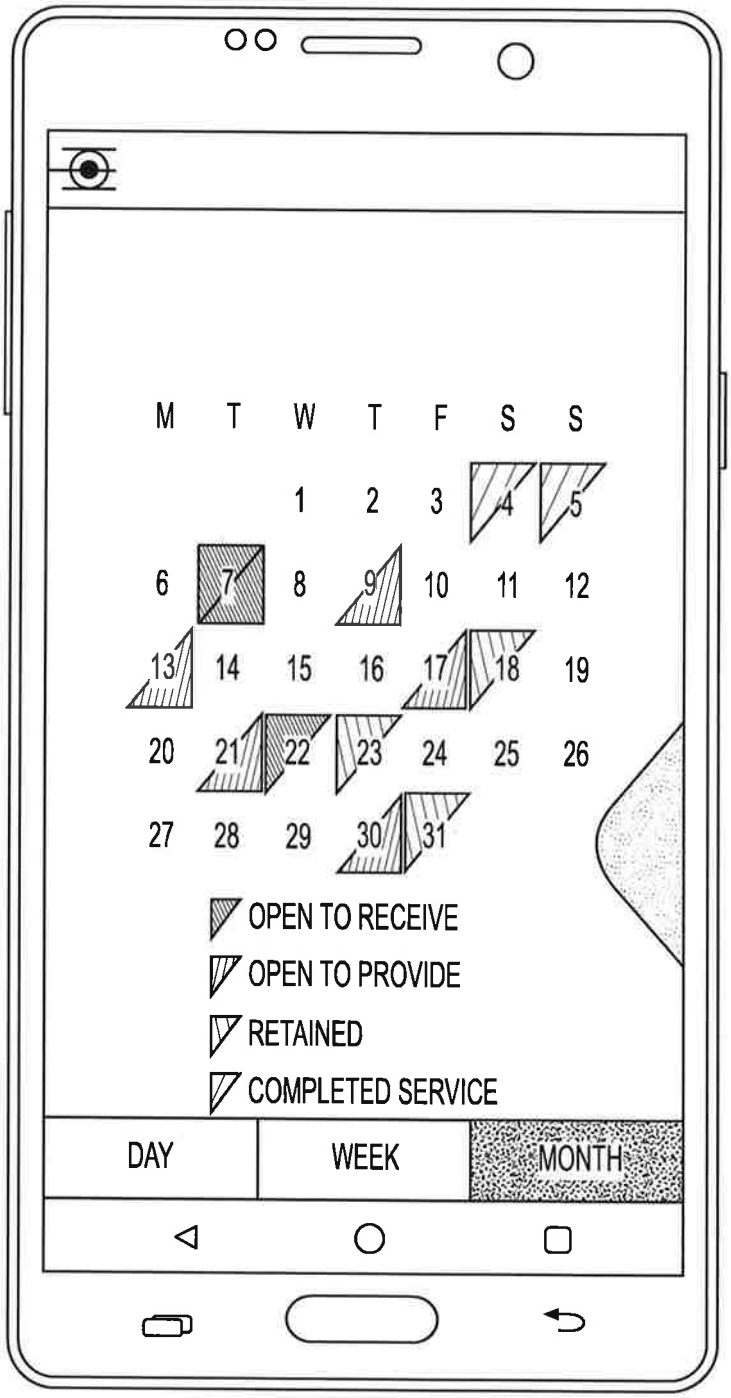

M T W T F S S
1 2 3 4 5
6 7 8 9 10 11 12
13 14 15 16 17 18 19
20 21 22 23 24 25 26
27 28 29 30 31
OPEN TO RECEIVE
OPEN TO PROVIDE
RETAINED
COMPLETED SERVICE
DAY
WEEK
MONTH

FIG. 2A

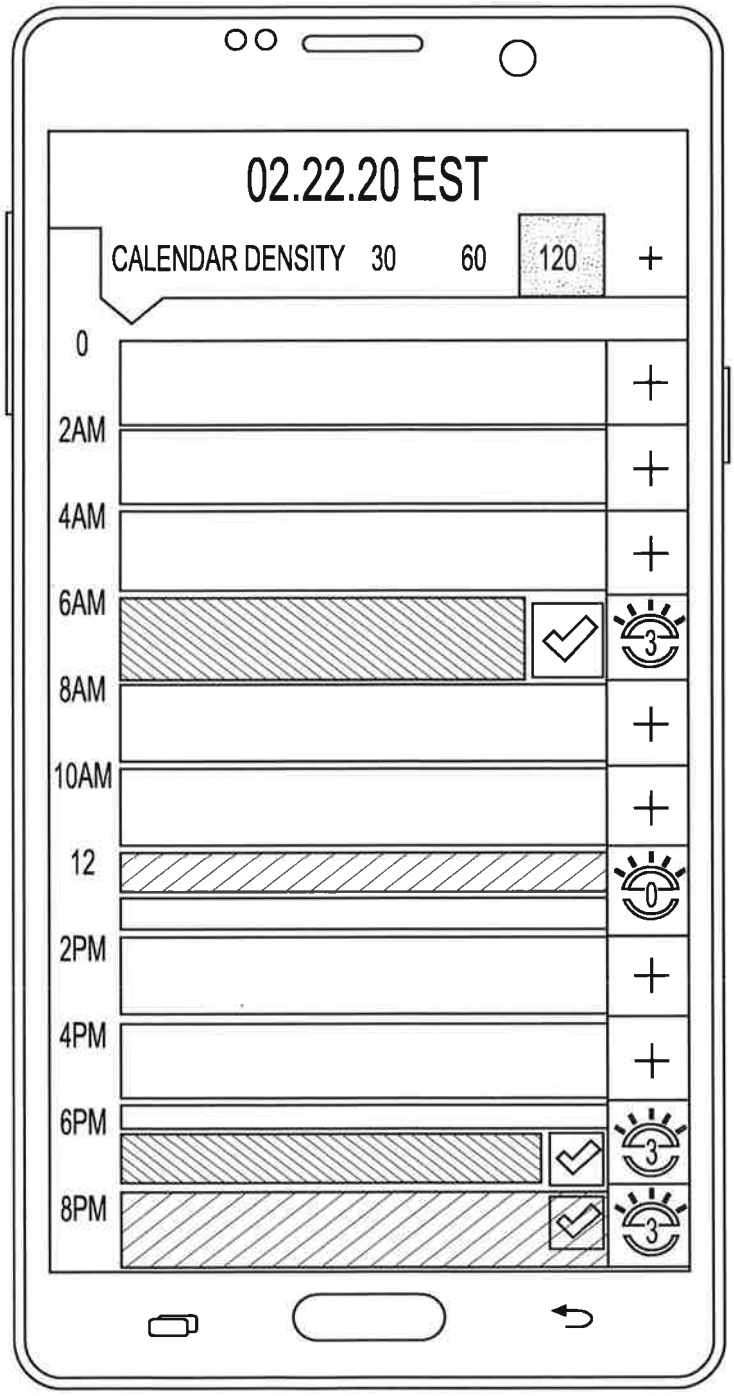

02.22.20 EST
CALENDAR DENSITY 30 60 120 +
0
2AM
4AM
6AM
8AM
10AM
12
2PM
4PM
6PM
8PM
3
3
0
3
3

FIG. 2B

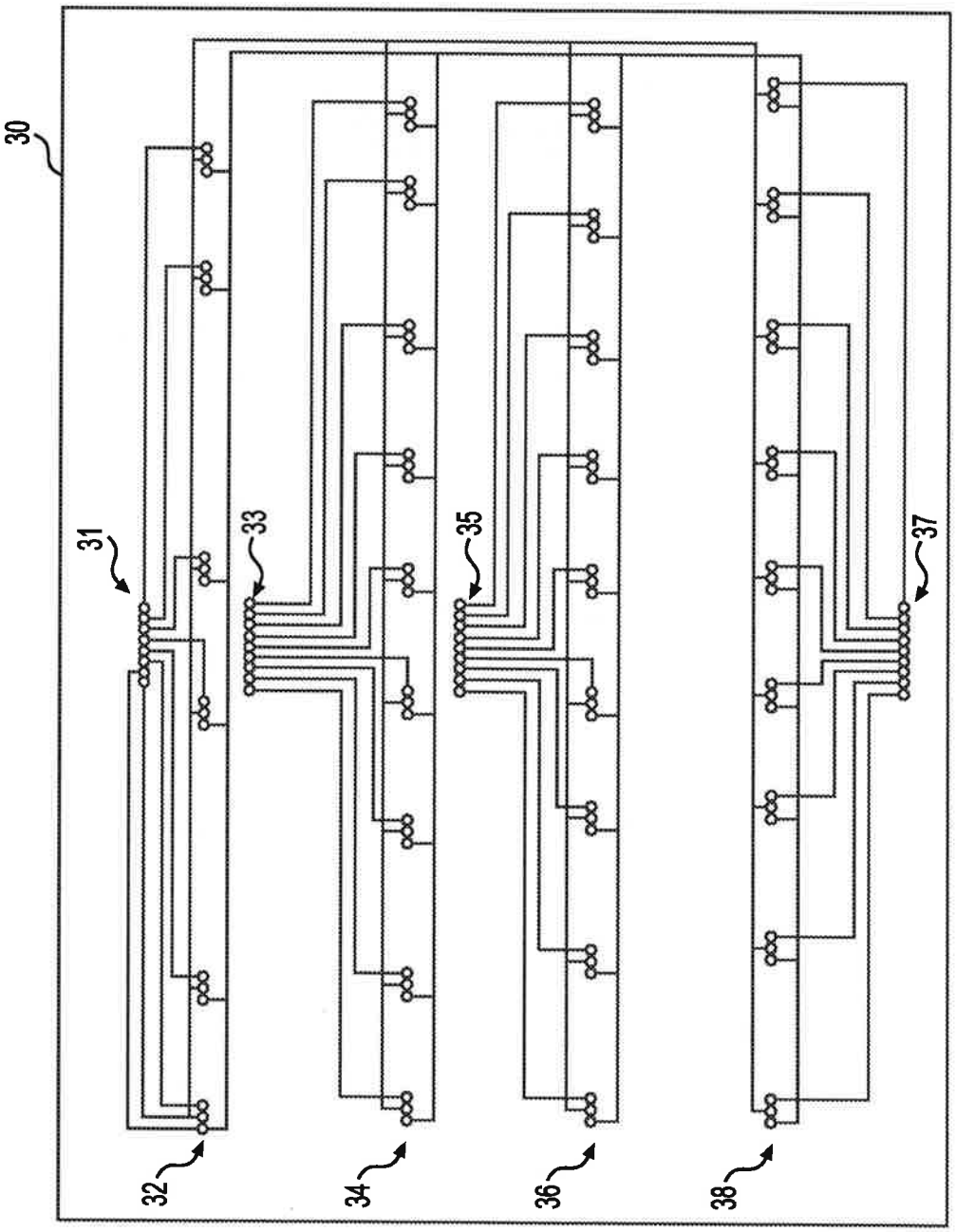


FIG. 3

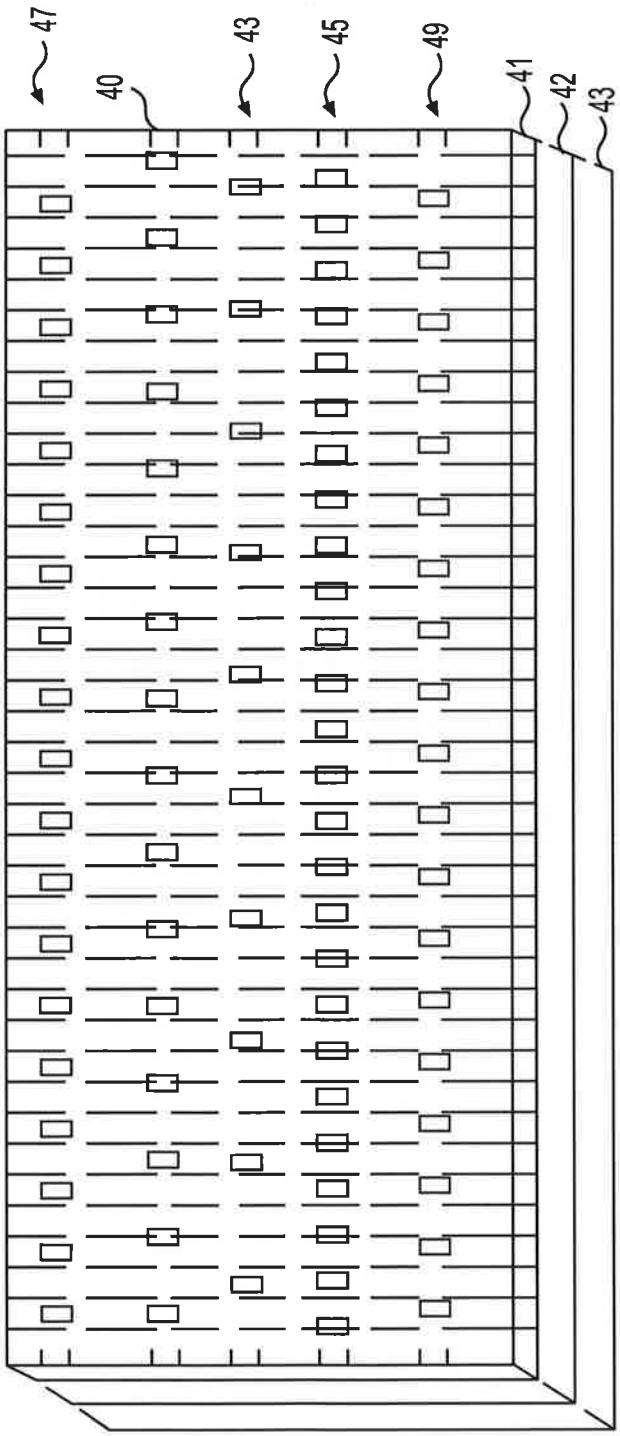


FIG. 4

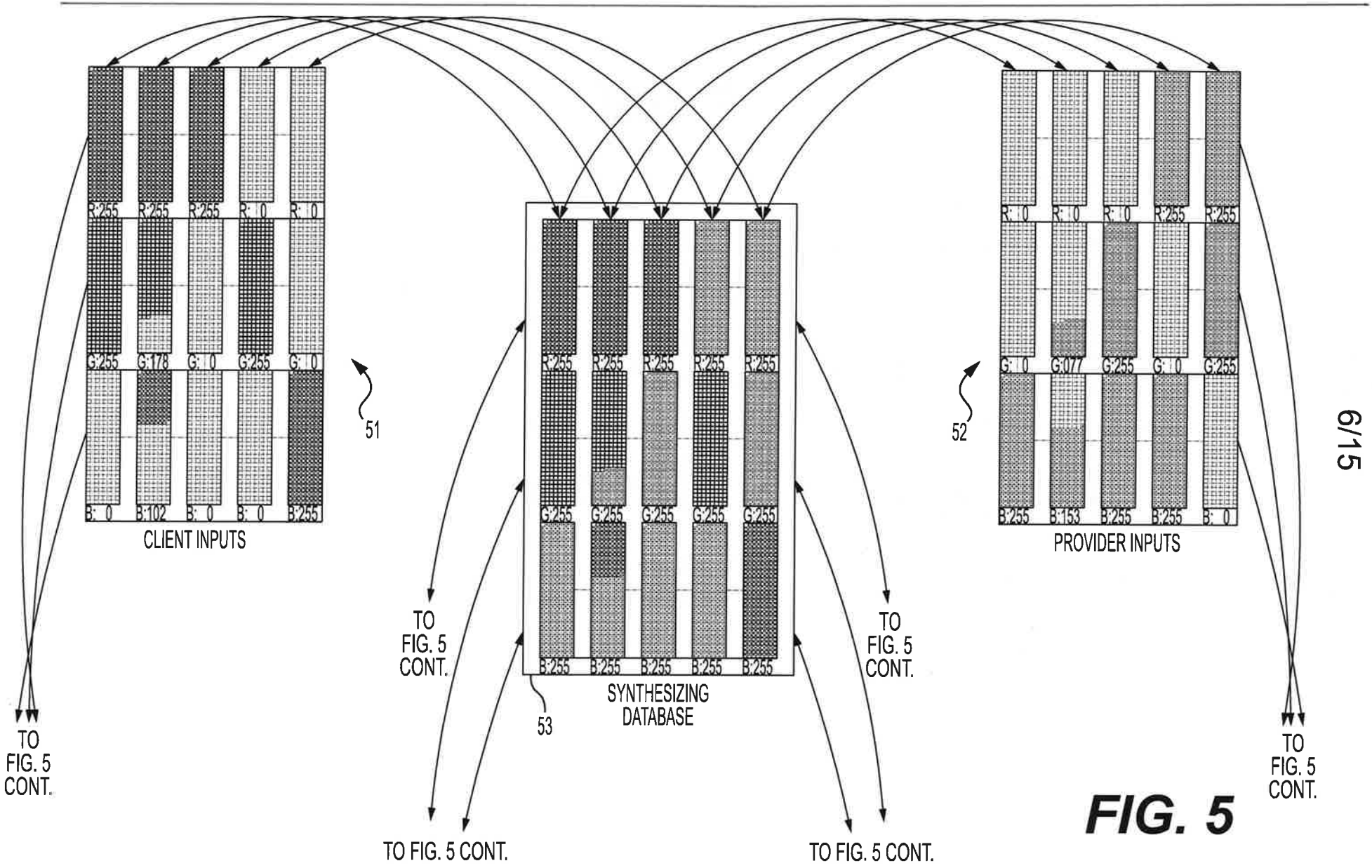

R:255 R:255 R:255 R: 0 R: 0
G:255 G:178 G: 0 G:255 G: 0
B: 0 B:102 B: 0 B: 0 B:255
CLIENT INPUTS
51
R:255 R:255 R:255 R:255 R:255
G:255 G:255 G:255 G:255 G:255
B:255 B:255 B:255 B:255 B:255
SYNTHESIZING DATABASE
53
R: 0 R: 0 R: 0 R:255 R:255
G: 0 G:077 G:255 G: 0 G:255
B:255 B:153 B:255 B:255 B: 0
PROVIDER INPUTS
52
TO FIG. 5 CONT.
TO FIG. 5 CONT.
TO FIG. 5 CONT.
TO FIG. 5 CONT.
TO FIG. 5 CONT.

FIG. 5

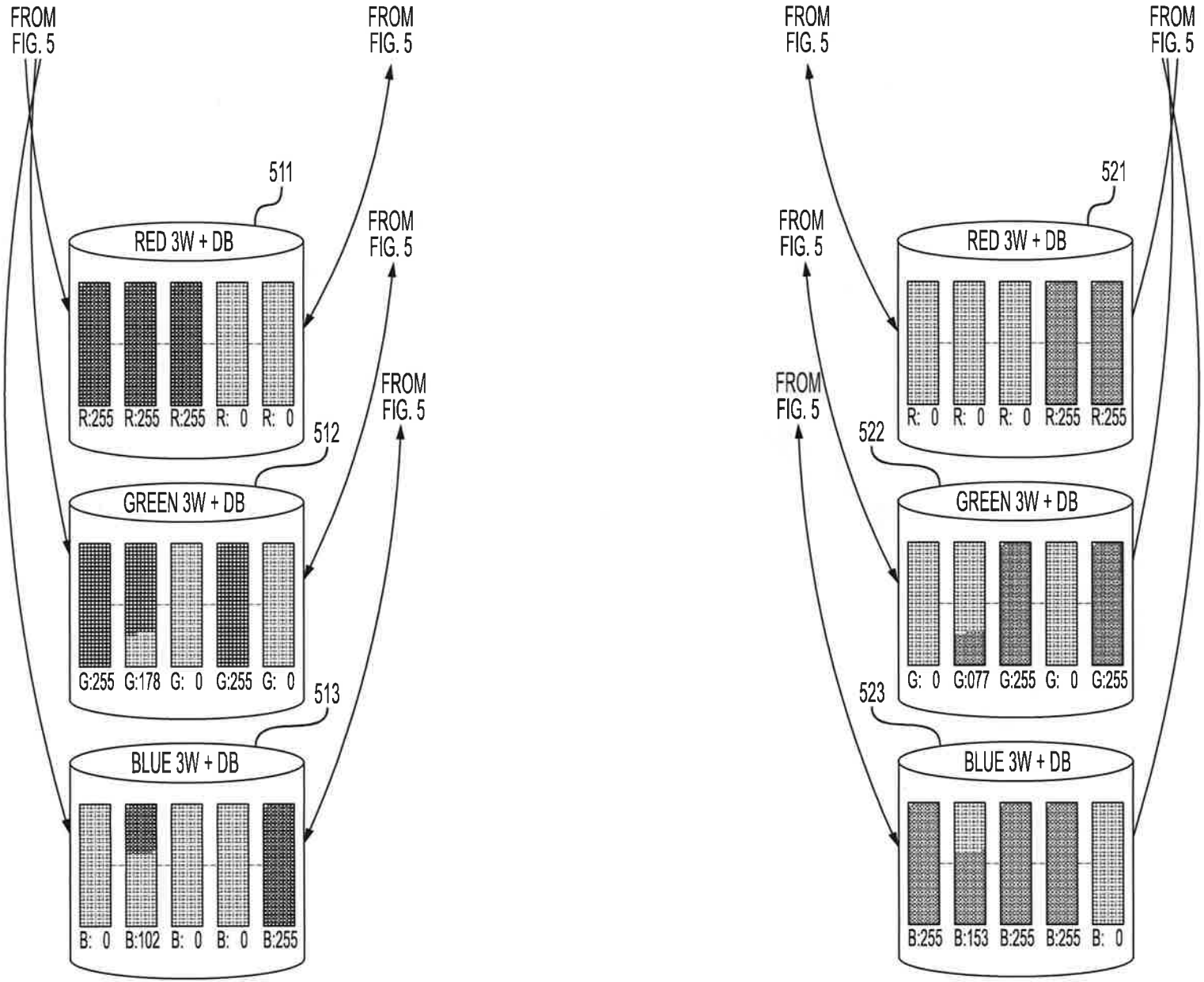

FROM FIG. 5
FROM FIG. 5
511
RED 3W + DB
R:255 R:255 R:255 R: 0 R: 0
FROM FIG. 5
FROM FIG. 5
512
GREEN 3W + DB
G:255 G:178 G: 0 G:255 G: 0
513
BLUE 3W + DB
B: 0 B:102 B: 0 B: 0 B:255
FROM FIG. 5
FROM FIG. 5
521
RED 3W + DB
R: 0 R: 0 R: 0 R:255 R:255
FROM FIG. 5
522
GREEN 3W + DB
G: 0 G:077 G:255 G: 0 G:255
523
BLUE 3W + DB
B:255 B:153 B:255 B:255 B: 0

FIG. 5 CONT.

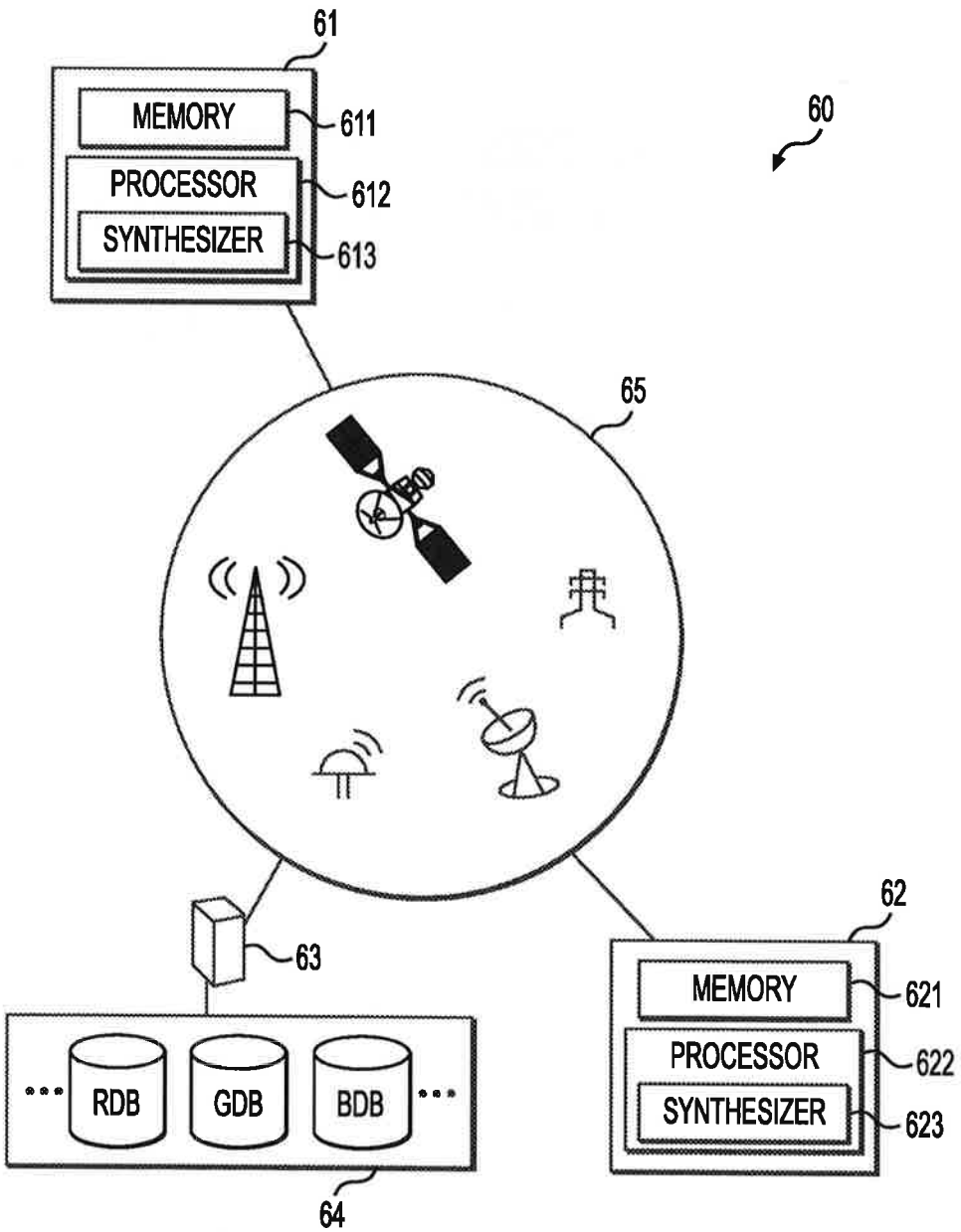

61
MEMORY
611
PROCESSOR
612
SYNTHESIZER
613
60
65
62
MEMORY
621
PROCESSOR
622
SYNTHESIZER
623
63
RDB
GDB
BDB
64

FIG. 6A

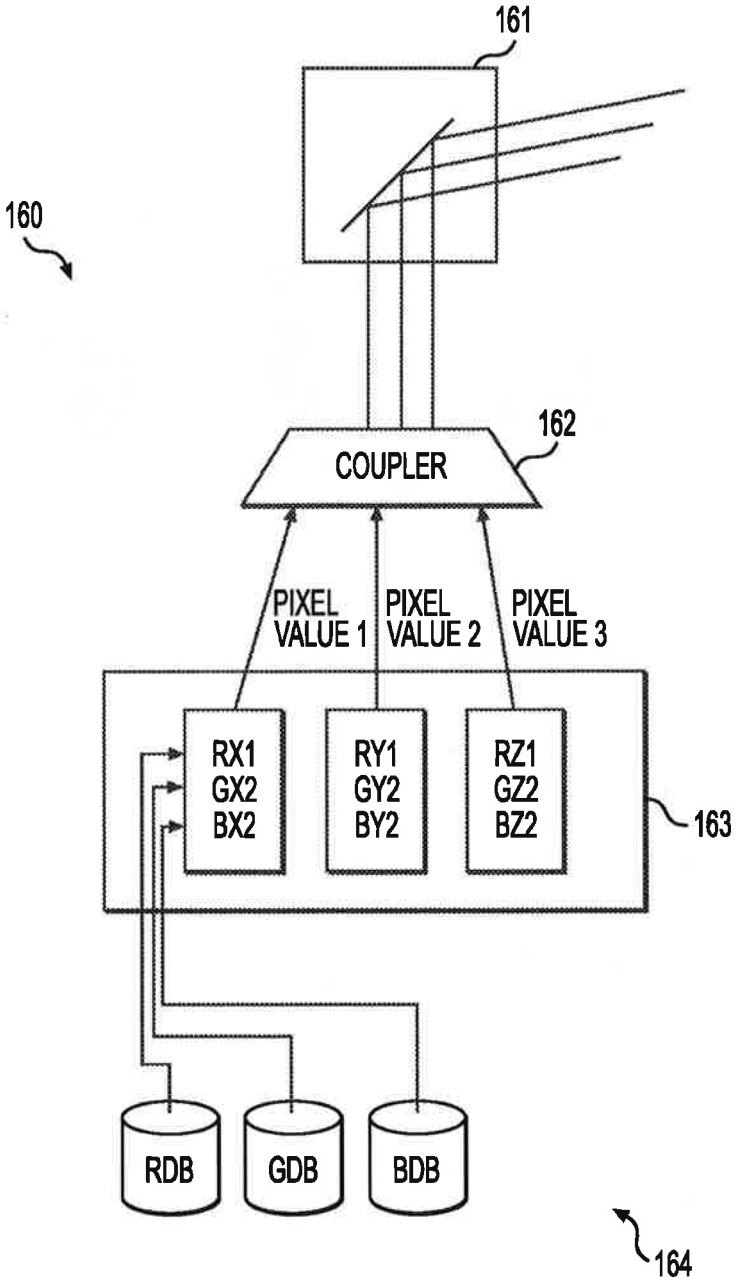
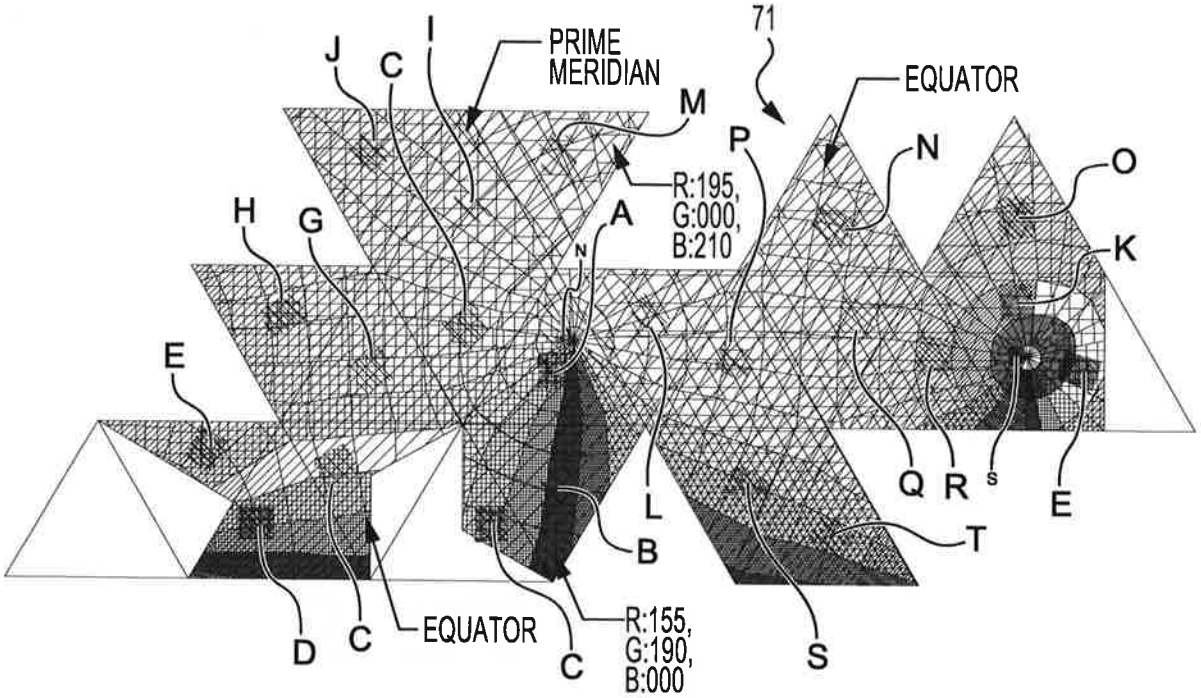

161
160
162
COUPLER
PIXEL VALUE 1
PIXEL VALUE 2
PIXEL VALUE 3
RX1
GX2
BX2
RY1
GY2
BY2
RZ1
GZ2
BZ2
163
RDB
GDB
BDB
164

FIG. 6B


71
PRIME MERIDIAN
EQUATOR
J
C
I
M
P
N
O
K
H
G
A
R:195, G:000, B:210
E
L
B
Q
R
S
E
T
D
C
EQUATOR
C
R:155, G:190, B:000
S

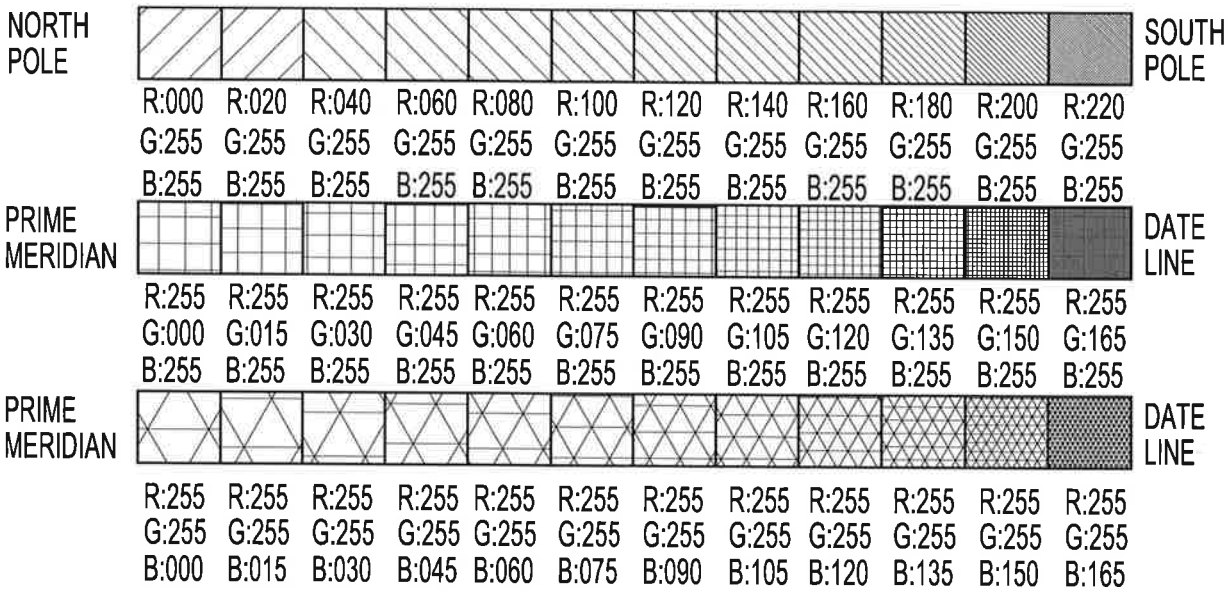
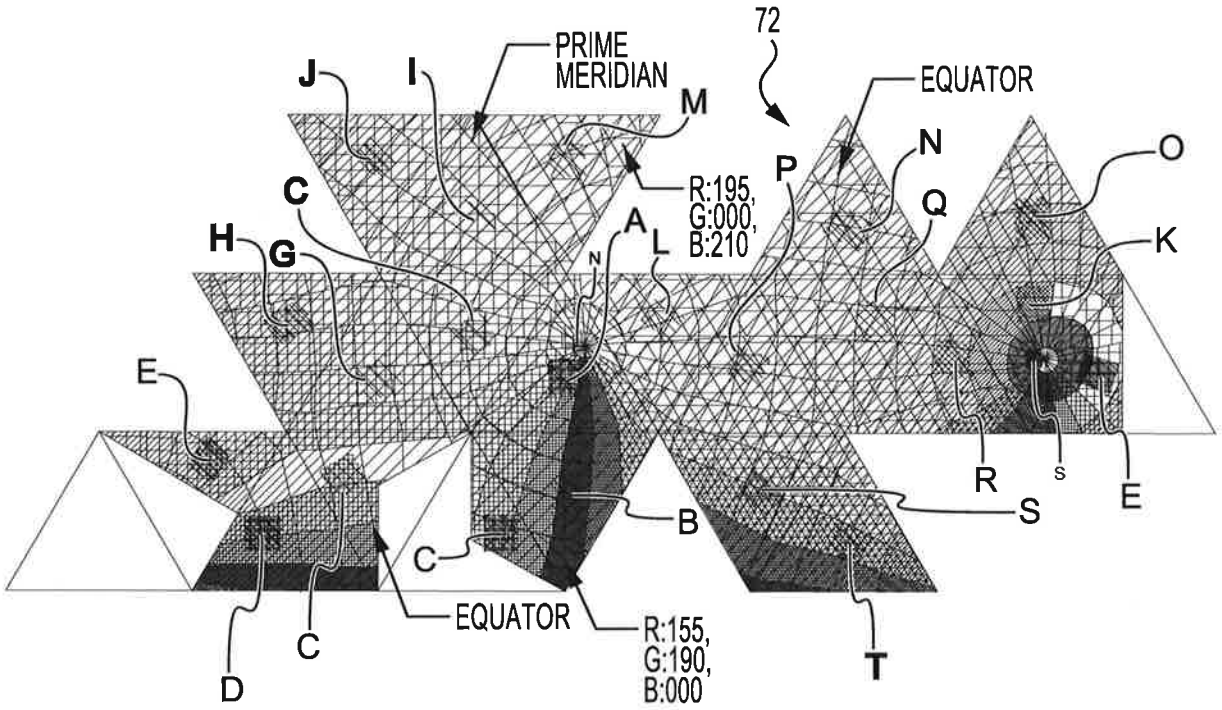

NORTH POLE
SOUTH POLE
R:000 R:020 R:040 R:060 R:080 R:100 R:120 R:140 R:160 R:180 R:200 R:220
G:255 G:255 G:255 G:255 G:255 G:255 G:255 G:255 G:255 G:255 G:255 G:255
B:255 B:255 B:255 B:255 B:255 B:255 B:255 B:255 B:255 B:255 B:255 B:255
PRIME MERIDIAN
DATE LINE
R:255 R:255 R:255 R:255 R:255 R:255 R:255 R:255 R:255 R:255 R:255 R:255
G:000 G:015 G:030 G:045 G:060 G:075 G:090 G:105 G:120 G:135 G:150 G:165
B:255 B:255 B:255 B:255 B:255 B:255 B:255 B:255 B:255 B:255 B:255 B:255
PRIME MERIDIAN
DATE LINE
R:255 R:255 R:255 R:255 R:255 R:255 R:255 R:255 R:255 R:255 R:255 R:255
G:255 G:255 G:255 G:255 G:255 G:255 G:255 G:255 G:255 G:255 G:255 G:255
B:000 B:015 B:030 B:045 B:060 B:075 B:090 B:105 B:120 B:135 B:150 B:165

FIG. 7A


72
PRIME MERIDIAN
EQUATOR
J
I
M
N
O
P
Q
K
C
H
G
A
L
R:195, G:000, B:210
E
B
S
R
E
C
EQUATOR
R:155, G:190, B:000
D
C
T

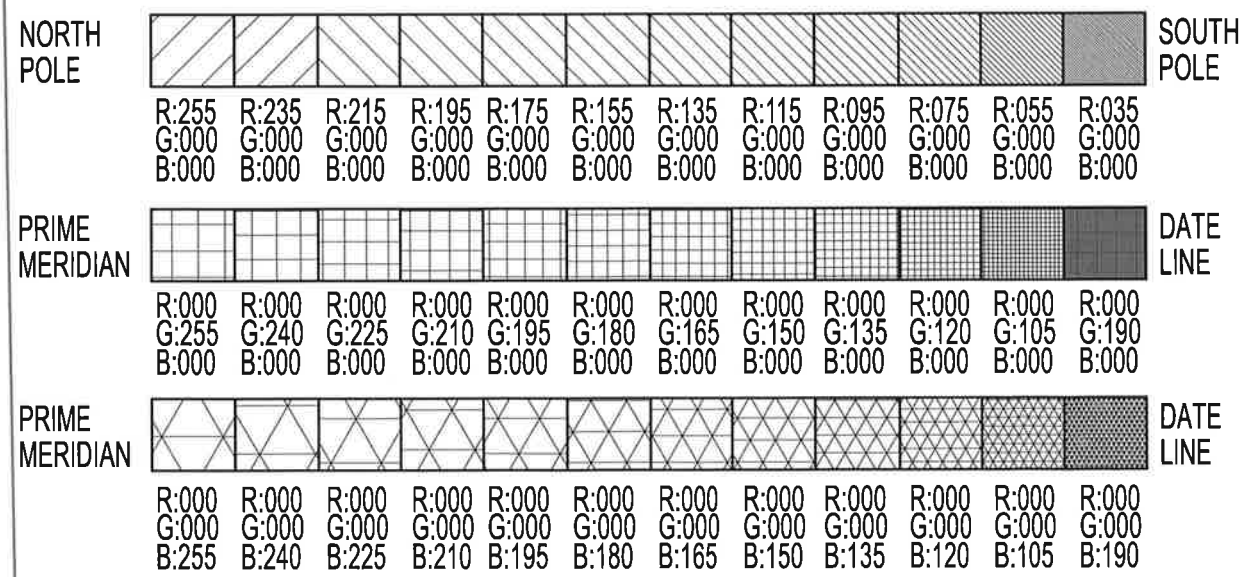

NORTH POLE
SOUTH POLE
R:255 G:000 B:000
R:235 G:000 B:000
R:215 G:000 B:000
R:195 G:000 B:000
R:175 G:000 B:000
R:155 G:000 B:000
R:135 G:000 B:000
R:115 G:000 B:000
R:095 G:000 B:000
R:075 G:000 B:000
R:055 G:000 B:000
R:035 G:000 B:000
PRIME MERIDIAN
DATE LINE
R:000 G:255 B:000
R:000 G:240 B:000
R:000 G:225 B:000
R:000 G:210 B:000
R:000 G:195 B:000
R:000 G:180 B:000
R:000 G:165 B:000
R:000 G:150 B:000
R:000 G:135 B:000
R:000 G:120 B:000
R:000 G:105 B:000
R:000 G:190 B:000
PRIME MERIDIAN
DATE LINE
R:000 G:000 B:255
R:000 G:000 B:240
R:000 G:000 B:225
R:000 G:000 B:210
R:000 G:000 B:195
R:000 G:000 B:180
R:000 G:000 B:165
R:000 G:000 B:150
R:000 G:000 B:135
R:000 G:000 B:120
R:000 G:000 B:105
R:000 G:000 B:190

FIG. 7B

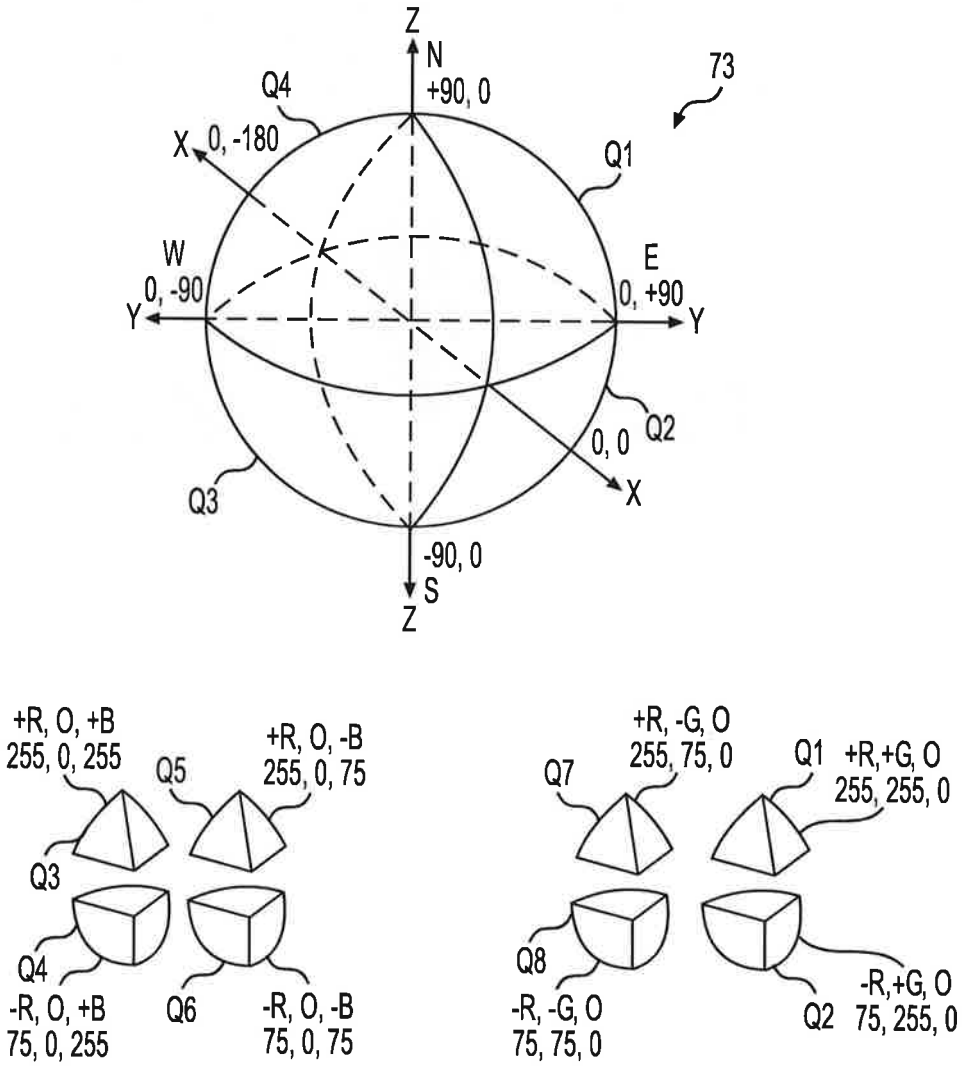
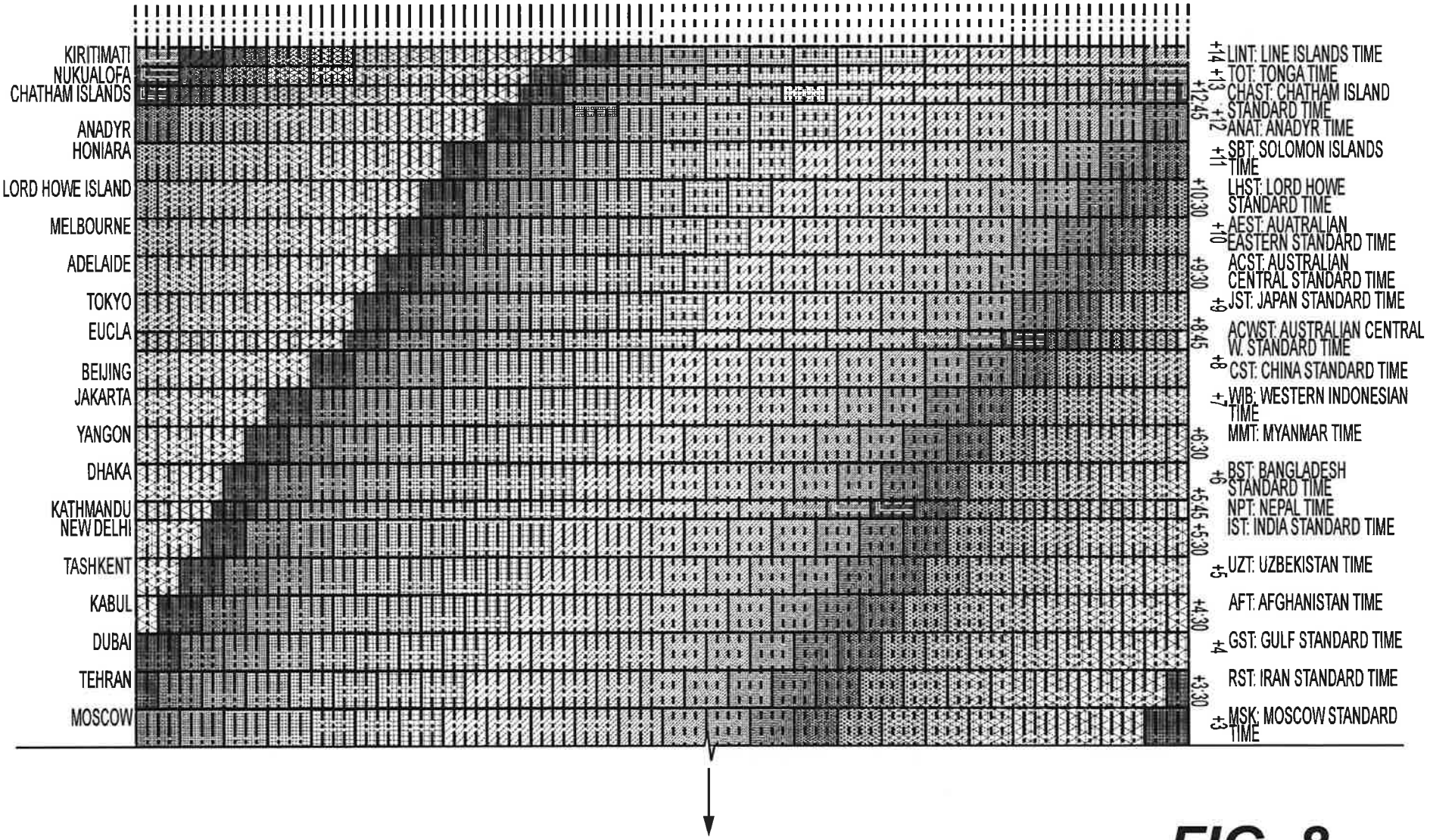

Z
N
+90, 0
73
Q4
X
0, -180
Q1
W
0, -90
E
0, +90
Y
Y
Q2
0, 0
X
Q3
-90, 0
S
Z
+R, O, +B
255, 0, 255
Q5
+R, O, -B
255, 0, 75
Q3
Q4
-R, O, +B
75, 0, 255
Q6
-R, O, -B
75, 0, 75
+R, -G, O
255, 75, 0
Q7
Q1
+R,+G, O
255, 255, 0
Q8
-R, -G, O
75, 75, 0
Q2
-R,+G, O
75, 255, 0

FIG. 7C



TO FIG. 8 CONT.

FIG. 8

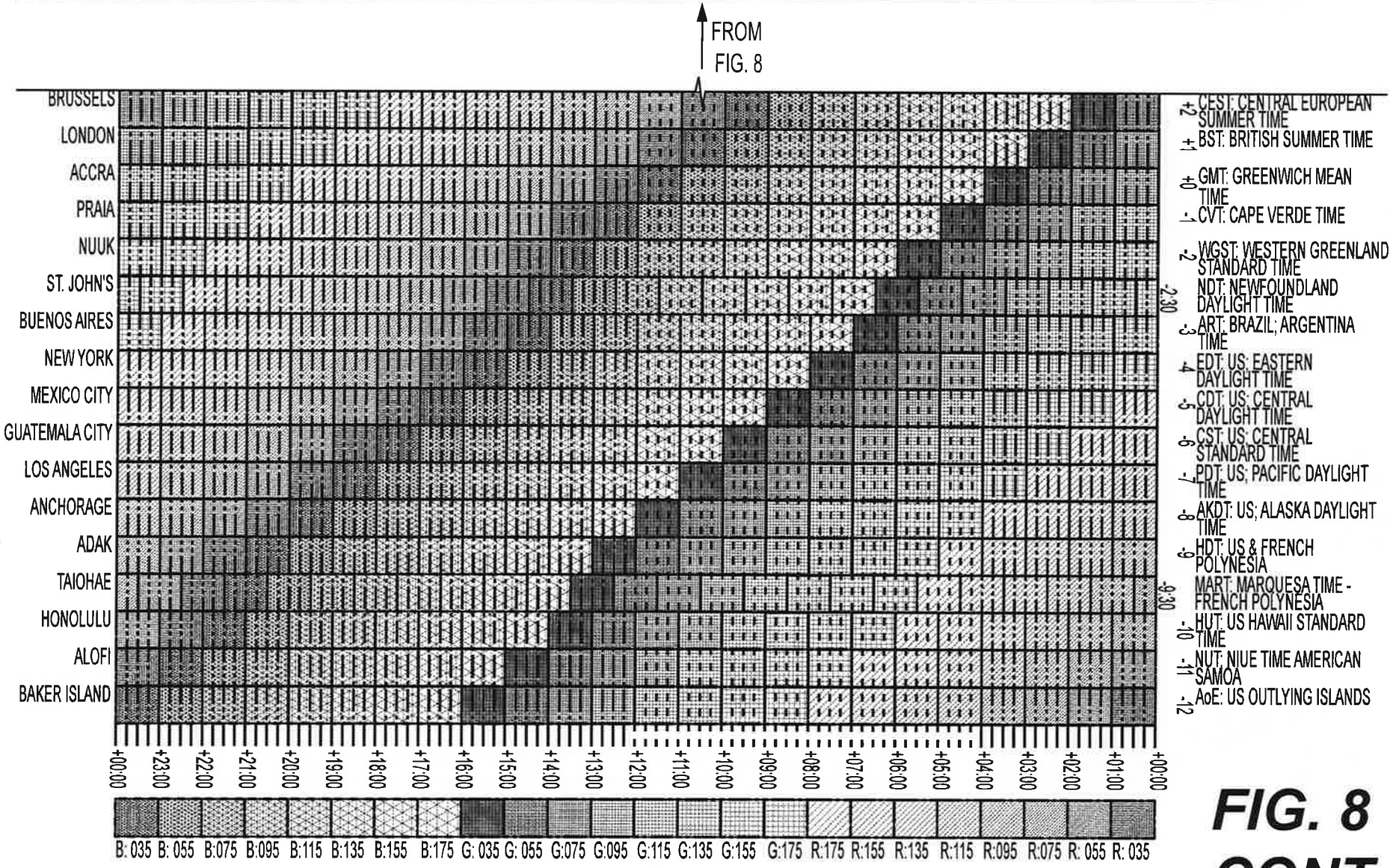

FROM
FIG. 8
BRUSSELS
LONDON
ACCRA
PRAIA
NUUK
ST. JOHN'S
BUENOS AIRES
NEW YORK
MEXICO CITY
GUATEMALA CITY
LOS ANGELES
ANCHORAGE
ADAK
TAIOHAE
HONOLULU
ALOFI
BAKER ISLAND
+2 CEST: CENTRAL EUROPEAN SUMMER TIME
+1 BST: BRITISH SUMMER TIME
+0 GMT: GREENWICH MEAN TIME
-1 CVT: CAPE VERDE TIME
-2 WGST: WESTERN GREENLAND STANDARD TIME
-2:30 NDT: NEWFOUNDLAND DAYLIGHT TIME
-3 ART: BRAZIL; ARGENTINA TIME
-4 EDT: US: EASTERN DAYLIGHT TIME
-5 CDT: US: CENTRAL DAYLIGHT TIME
-6 CST: US: CENTRAL STANDARD TIME
-7 PDT: US; PACIFIC DAYLIGHT TIME
-8 AKDT: US; ALASKA DAYLIGHT TIME
-9 HDT: US & FRENCH POLYNESIA
-9:30 MART: MARQUESA TIME - FRENCH POLYNESIA
-10 HUT: US HAWAII STANDARD TIME
-11 NUT: NIUE TIME AMERICAN SAMOA
-12 AoE: US OUTLYING ISLANDS
+00:00 +23:00 +22:00 +21:00 +20:00 +19:00 +18:00 +17:00 +16:00 +15:00 +14:00 +13:00 +12:00 +11:00 +10:00 +09:00 +08:00 +07:00 +06:00 +05:00 +04:00 +03:00 +02:00 +01:00 +00:00
B: 035 B: 055 B:075 B:095 B:115 B:135 B:155 B:175 G: 035 G: 055 G:075 G:095 G:115 G:135 G:155 G:175 R:175 R:155 R:135 R:115 R:095 R:075 R: 055 R: 035

FIG. 8 CONT.

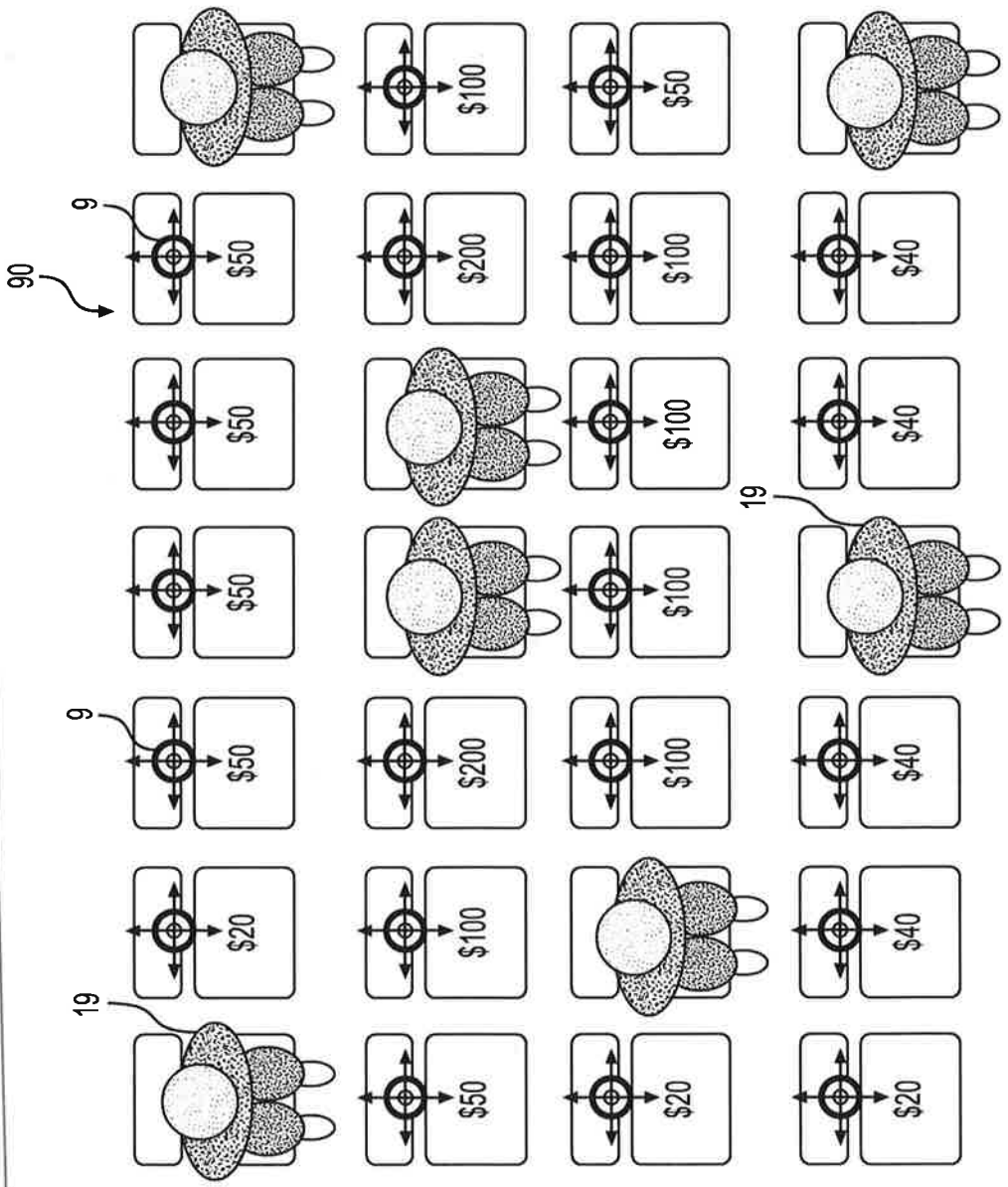

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FIG. 9