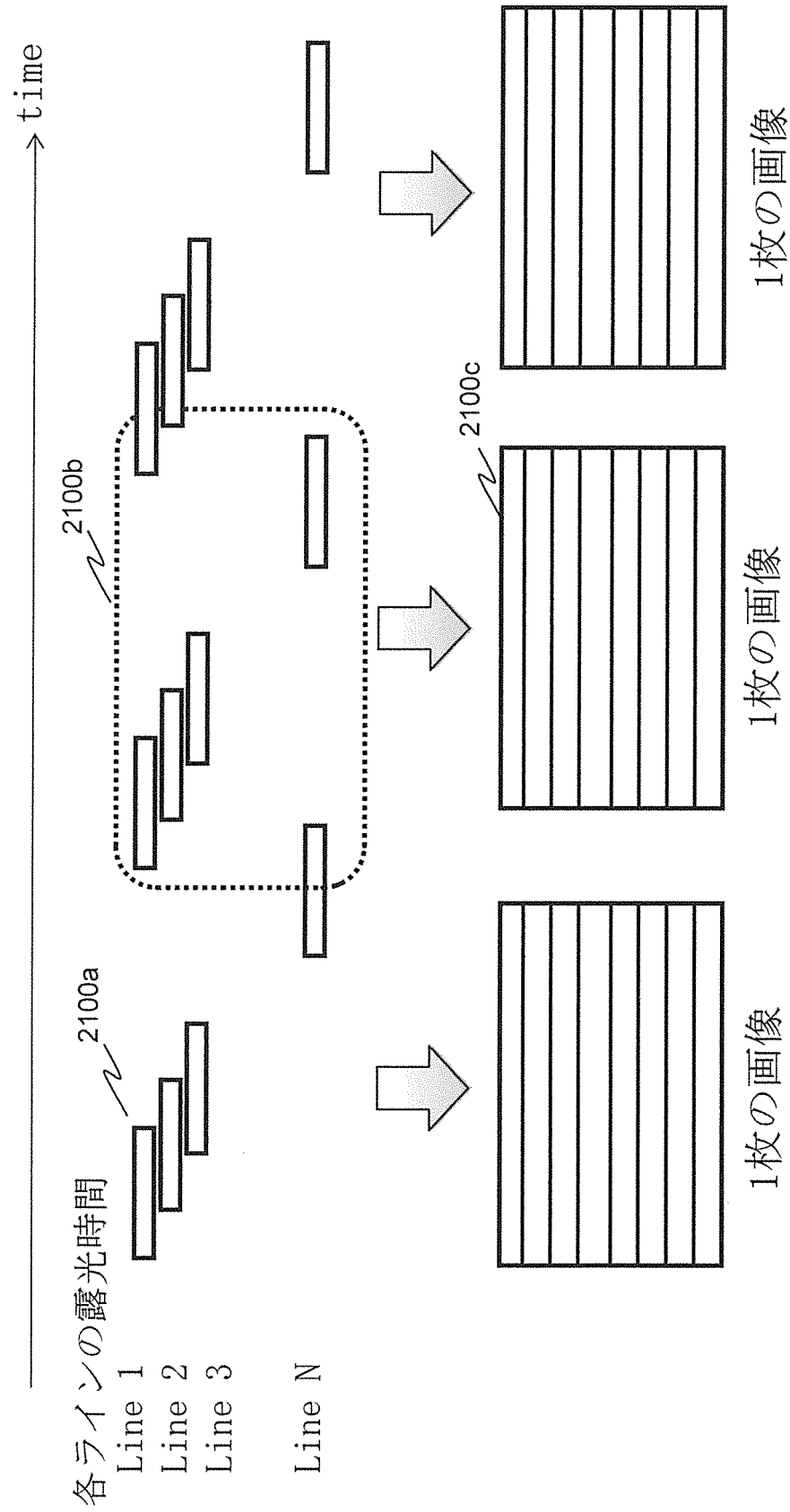
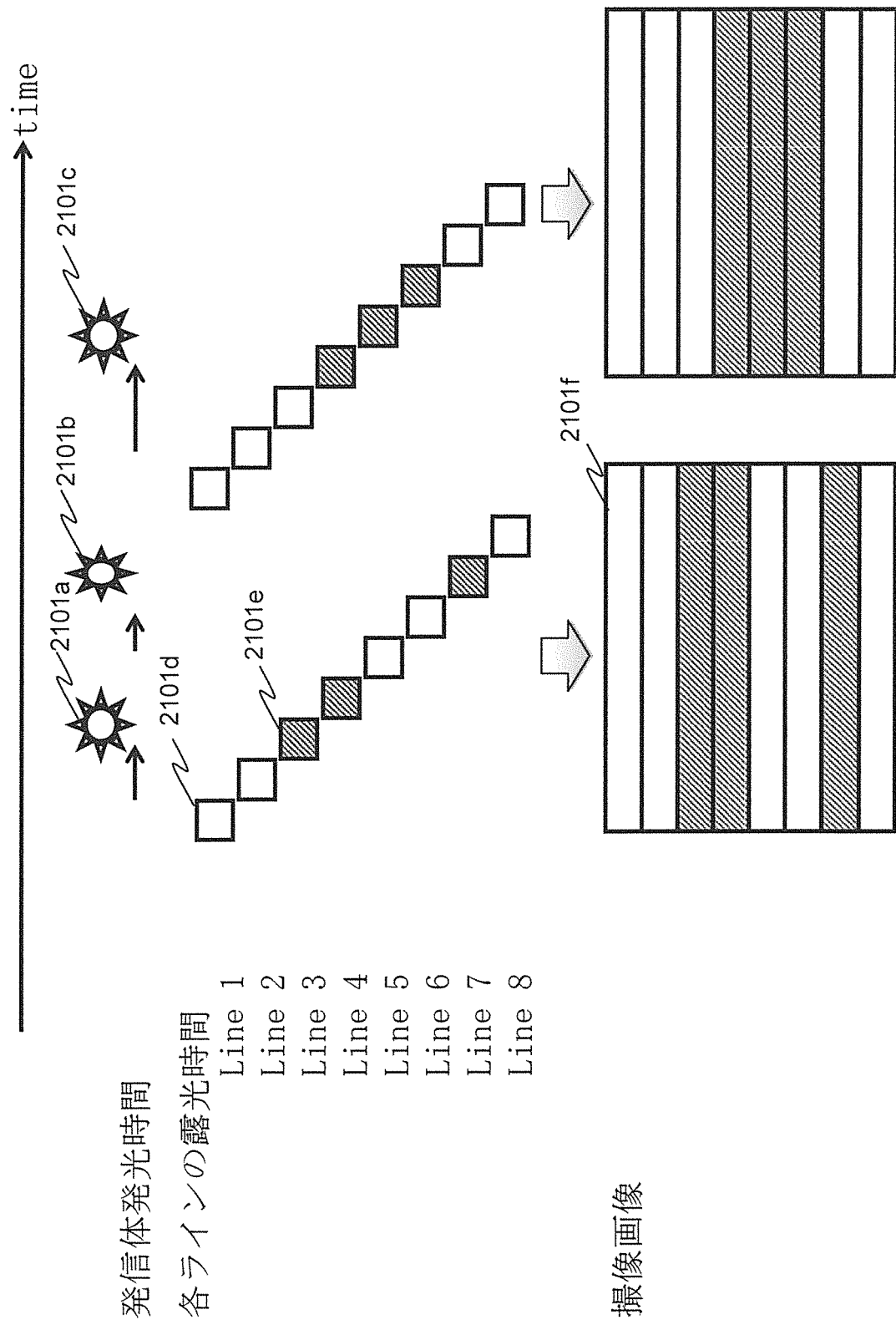


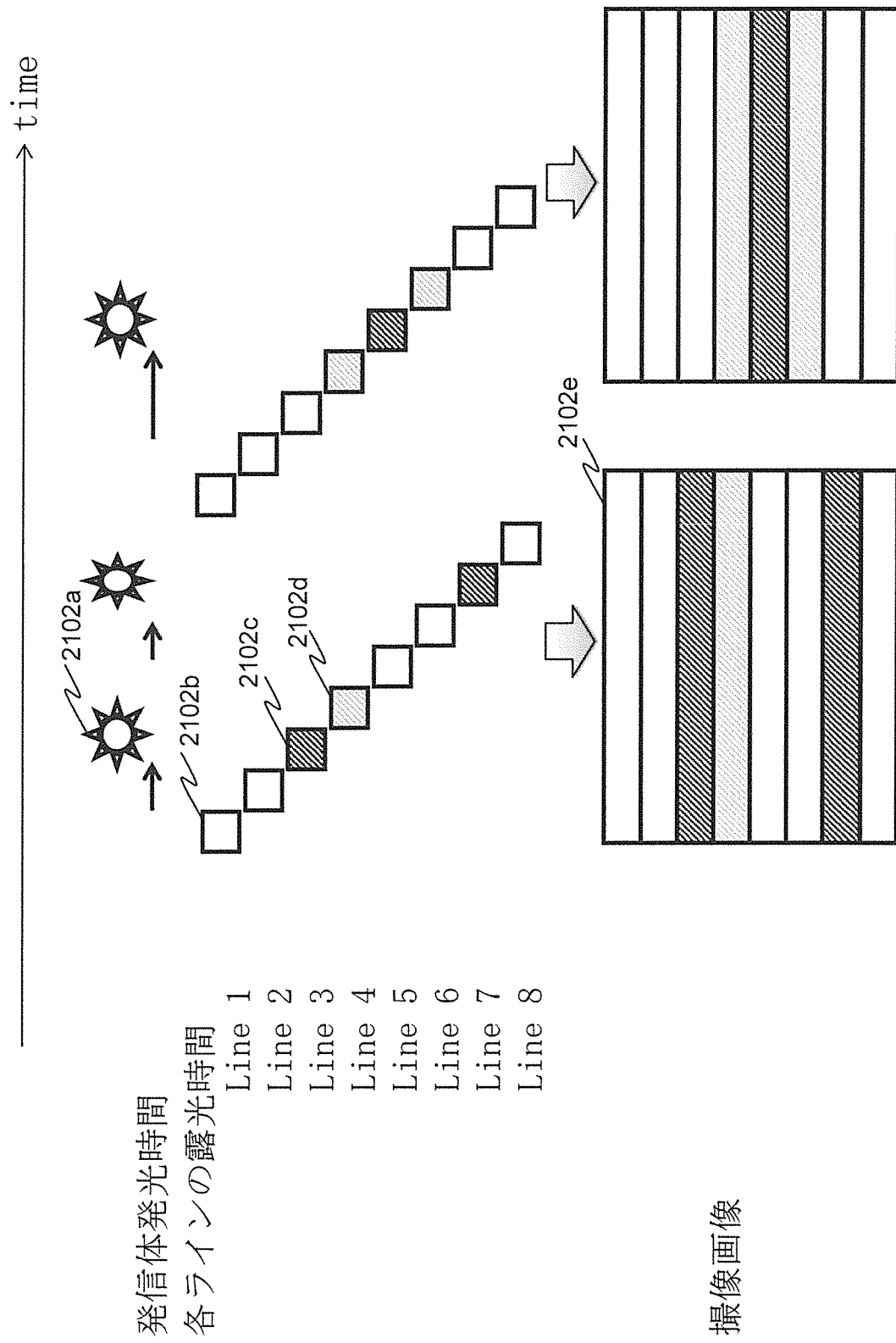
[図1]



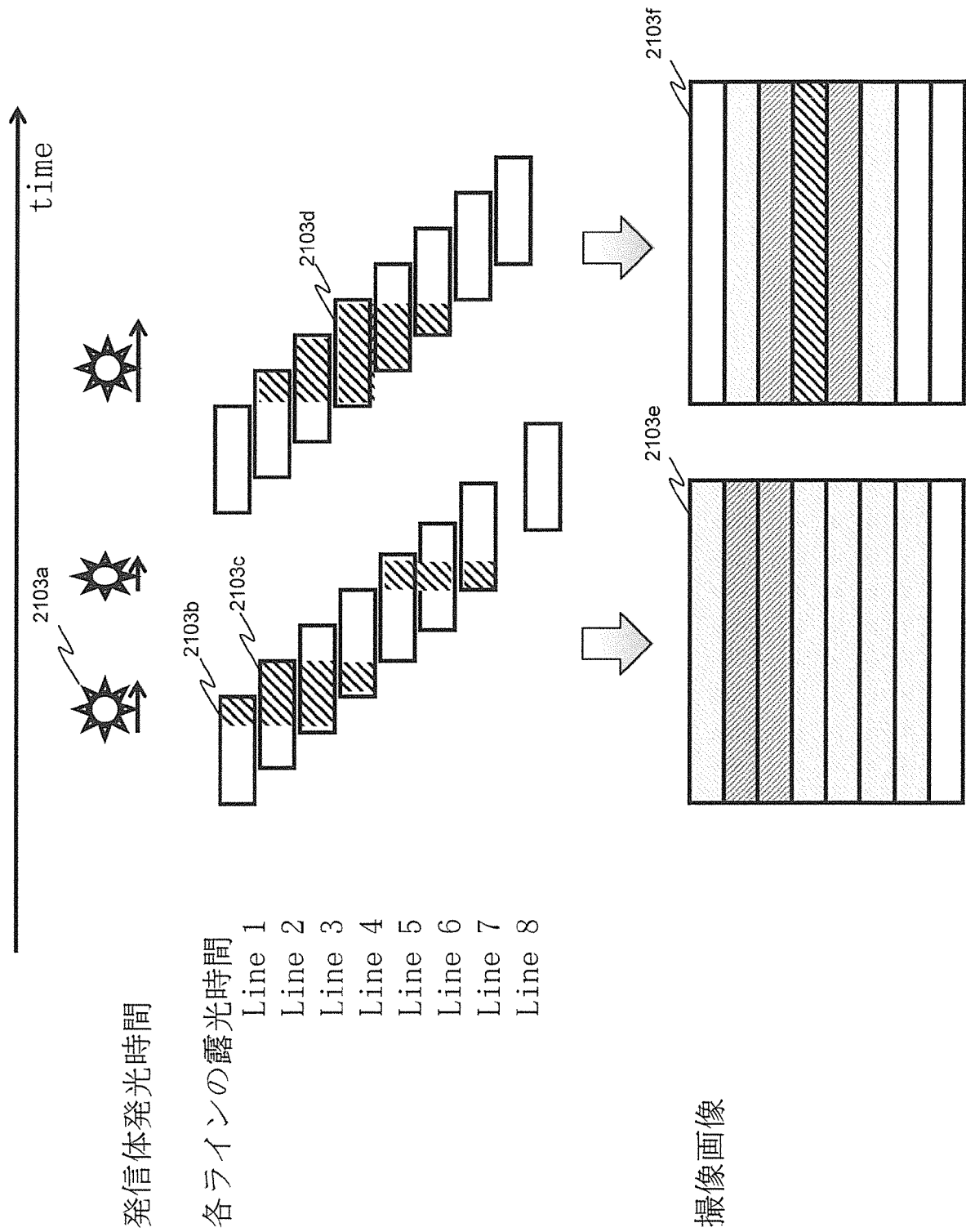
[図2]



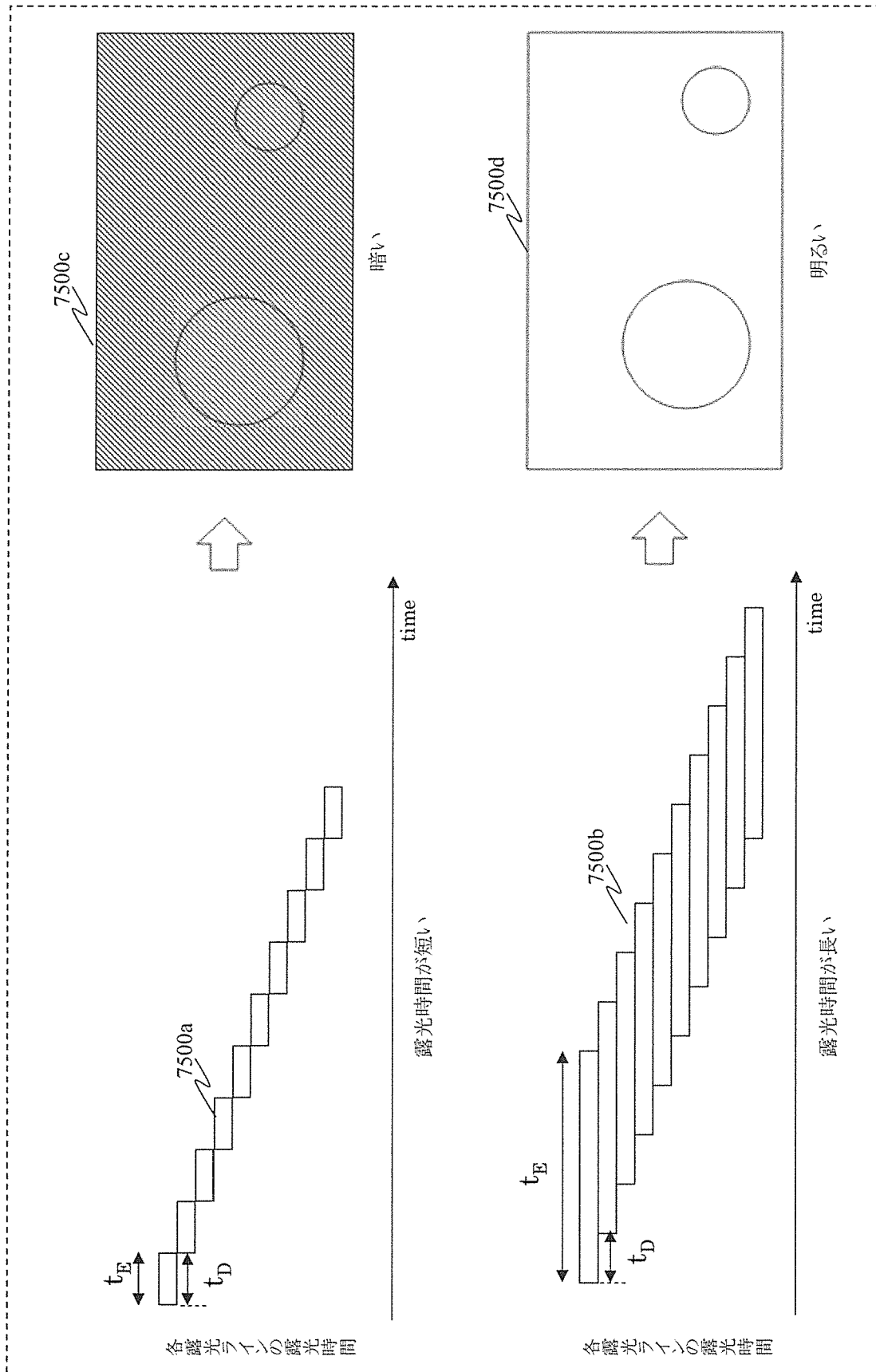
[図3]



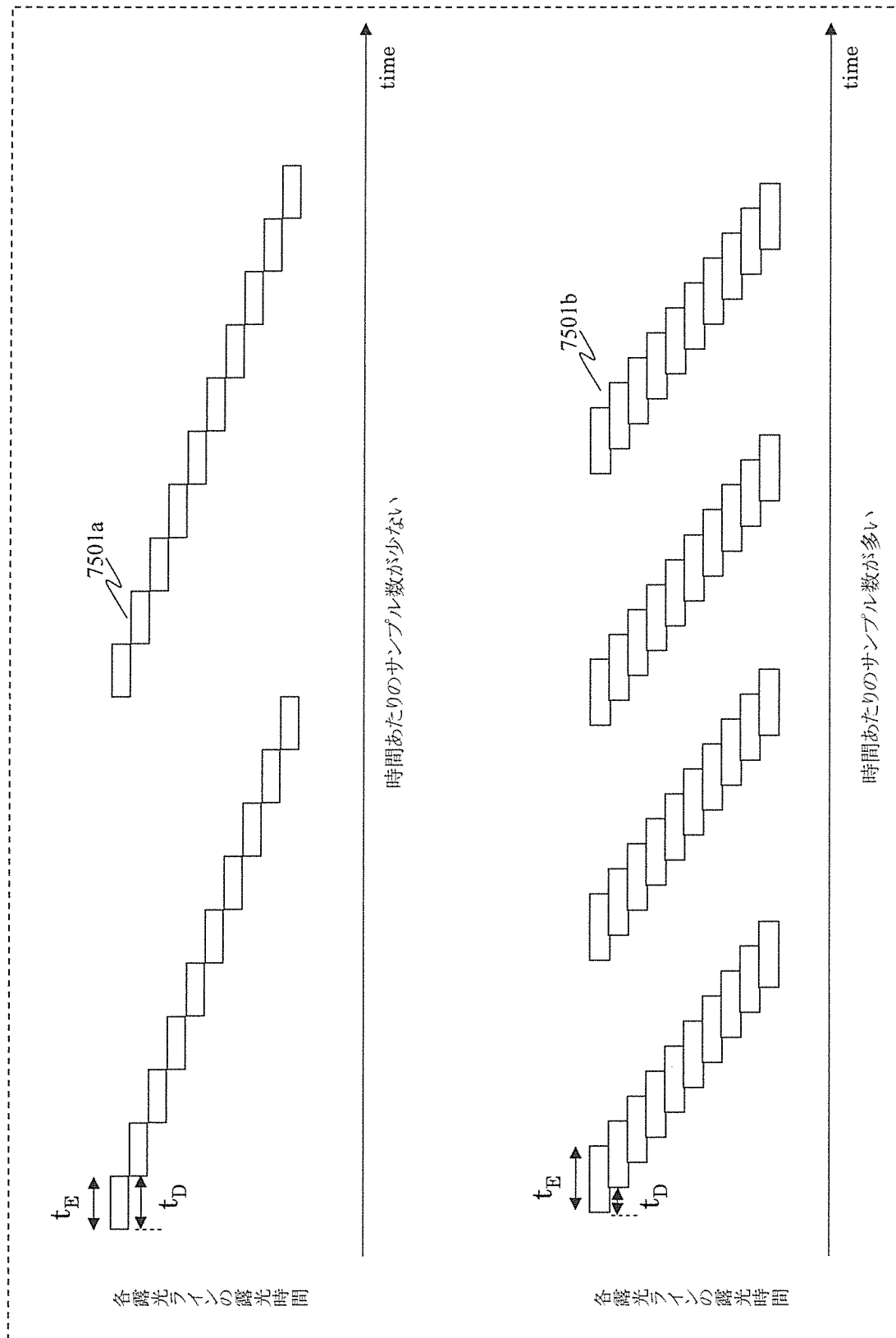
[図4A]



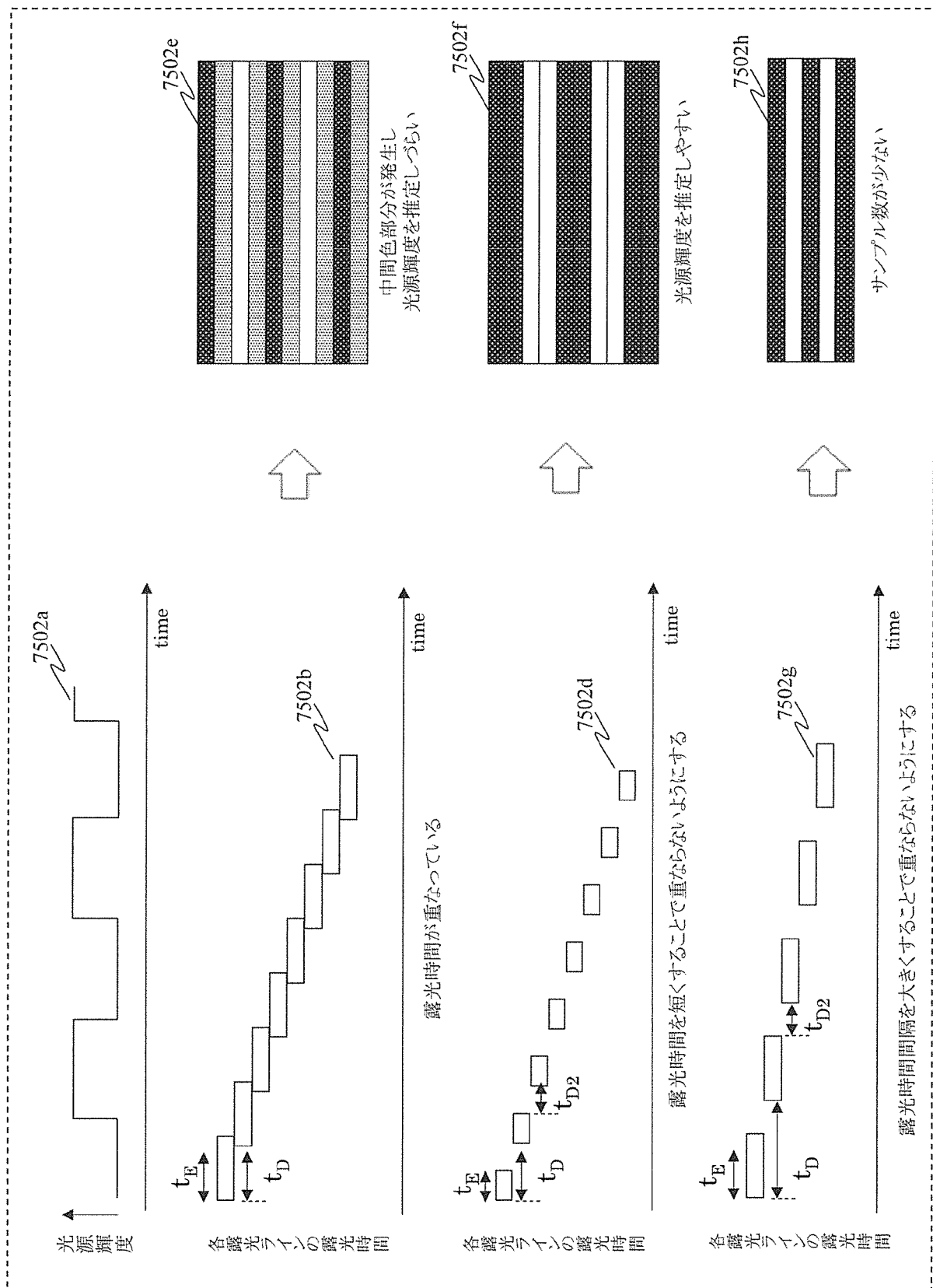
[図4B]



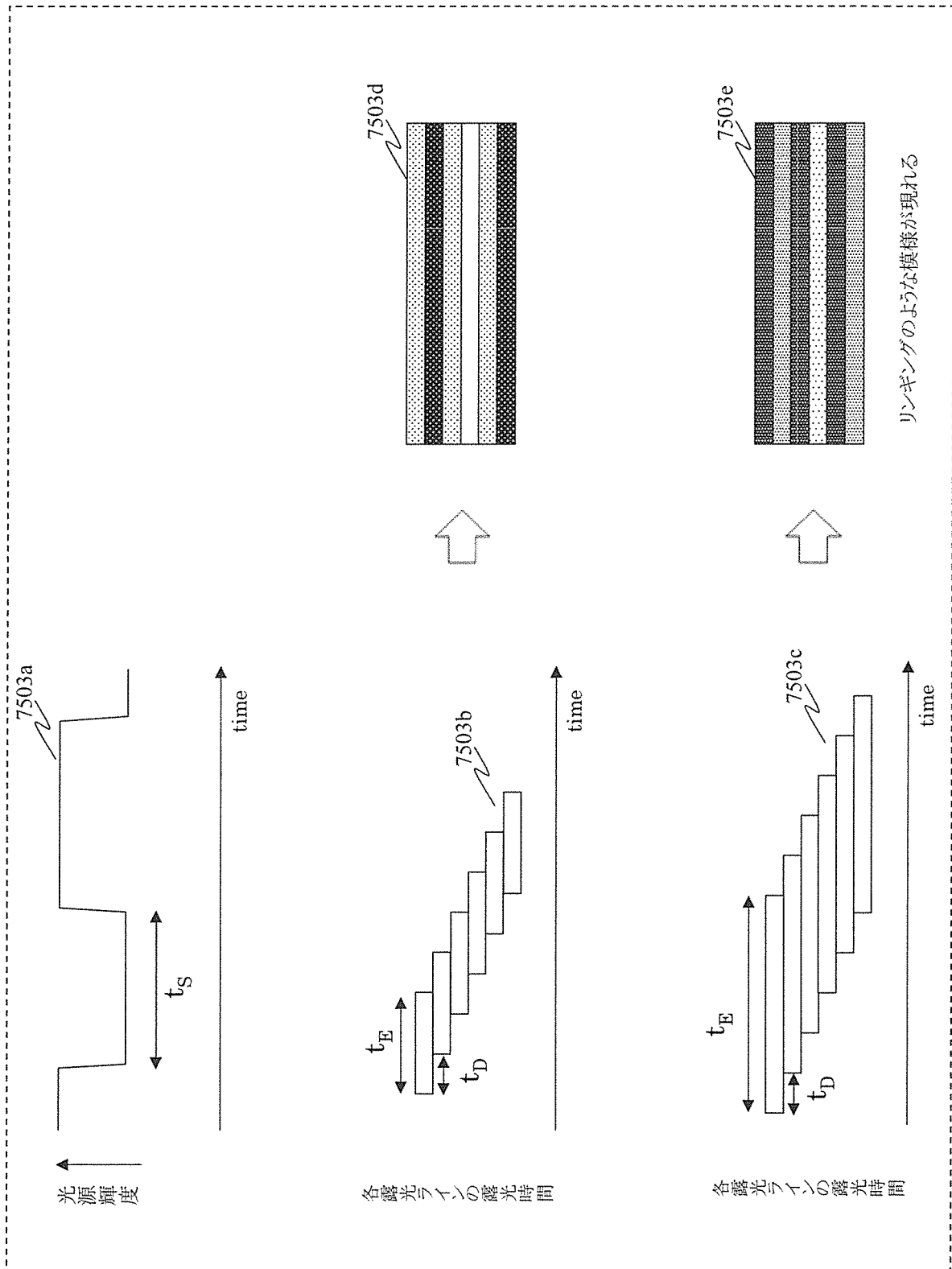
[図4C]



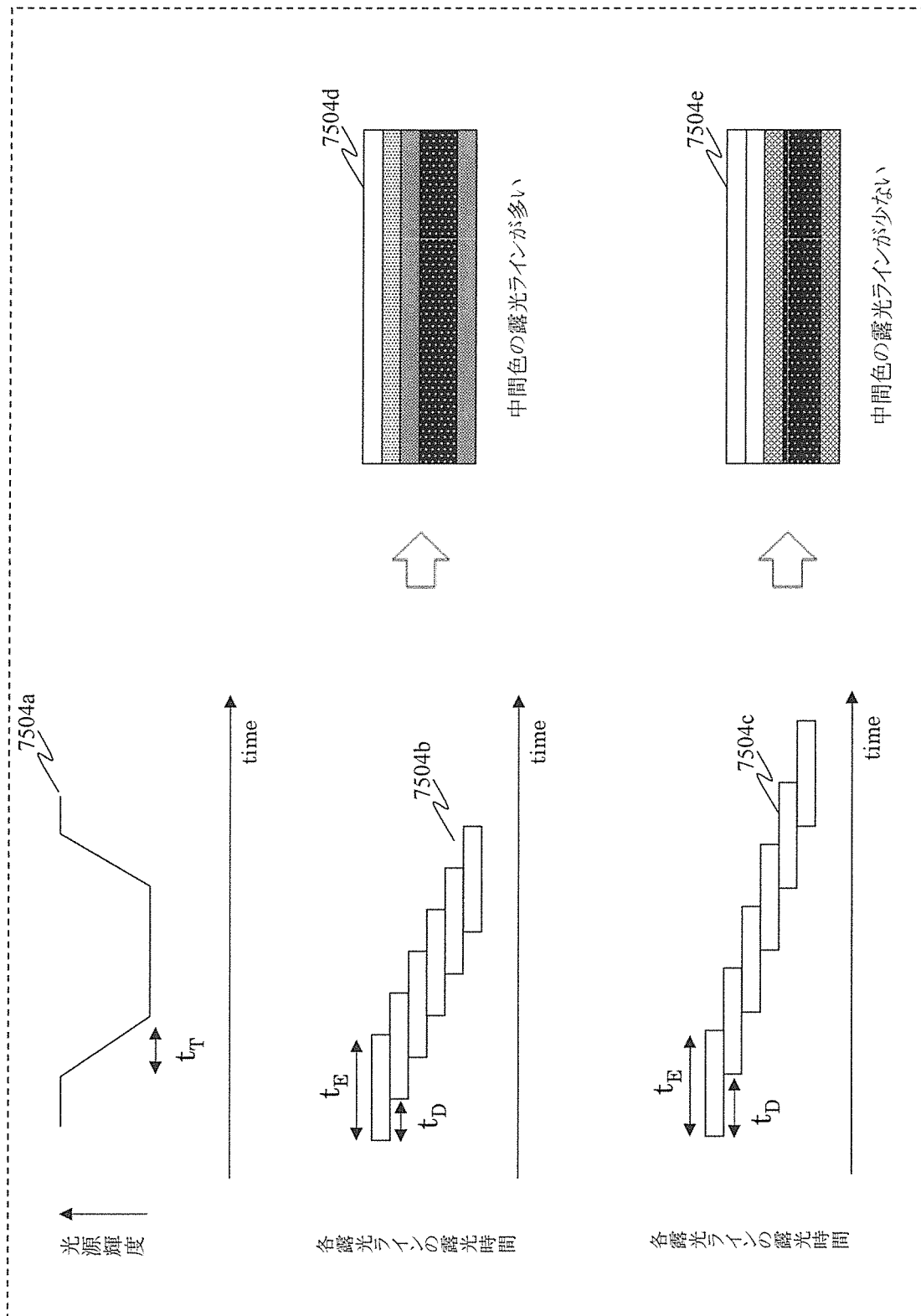
[図4D]



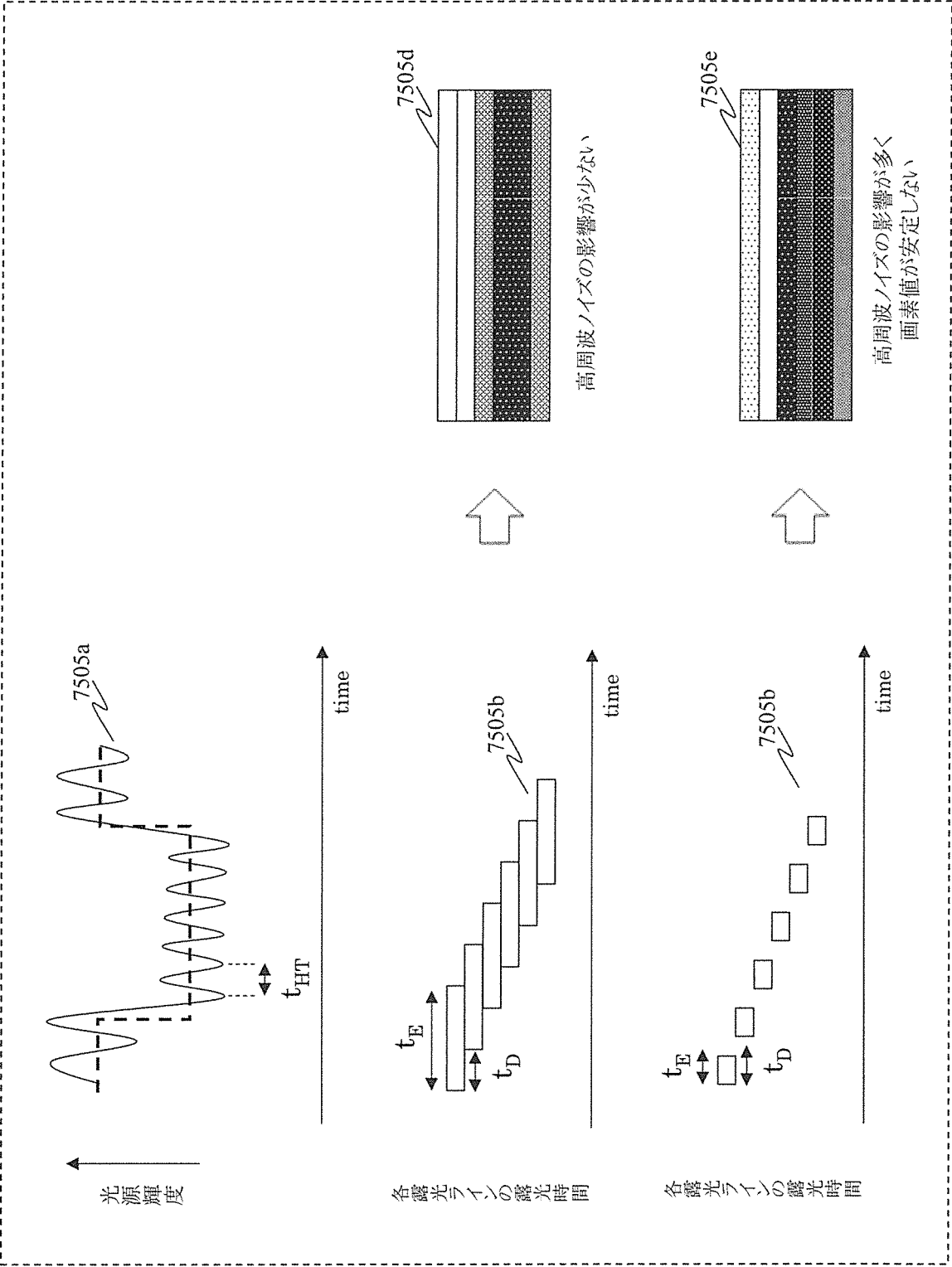
[図4E]



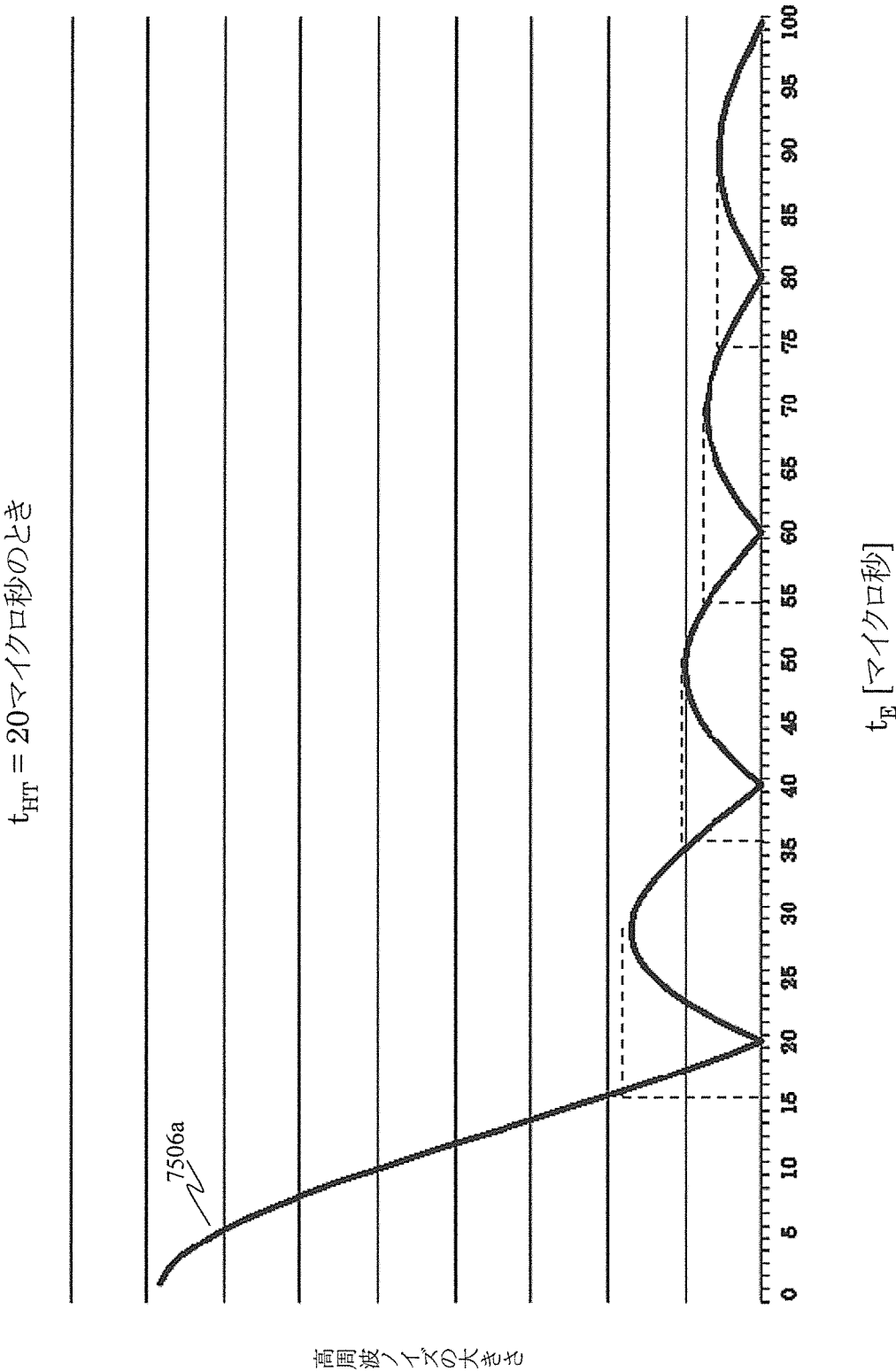
[図4F]



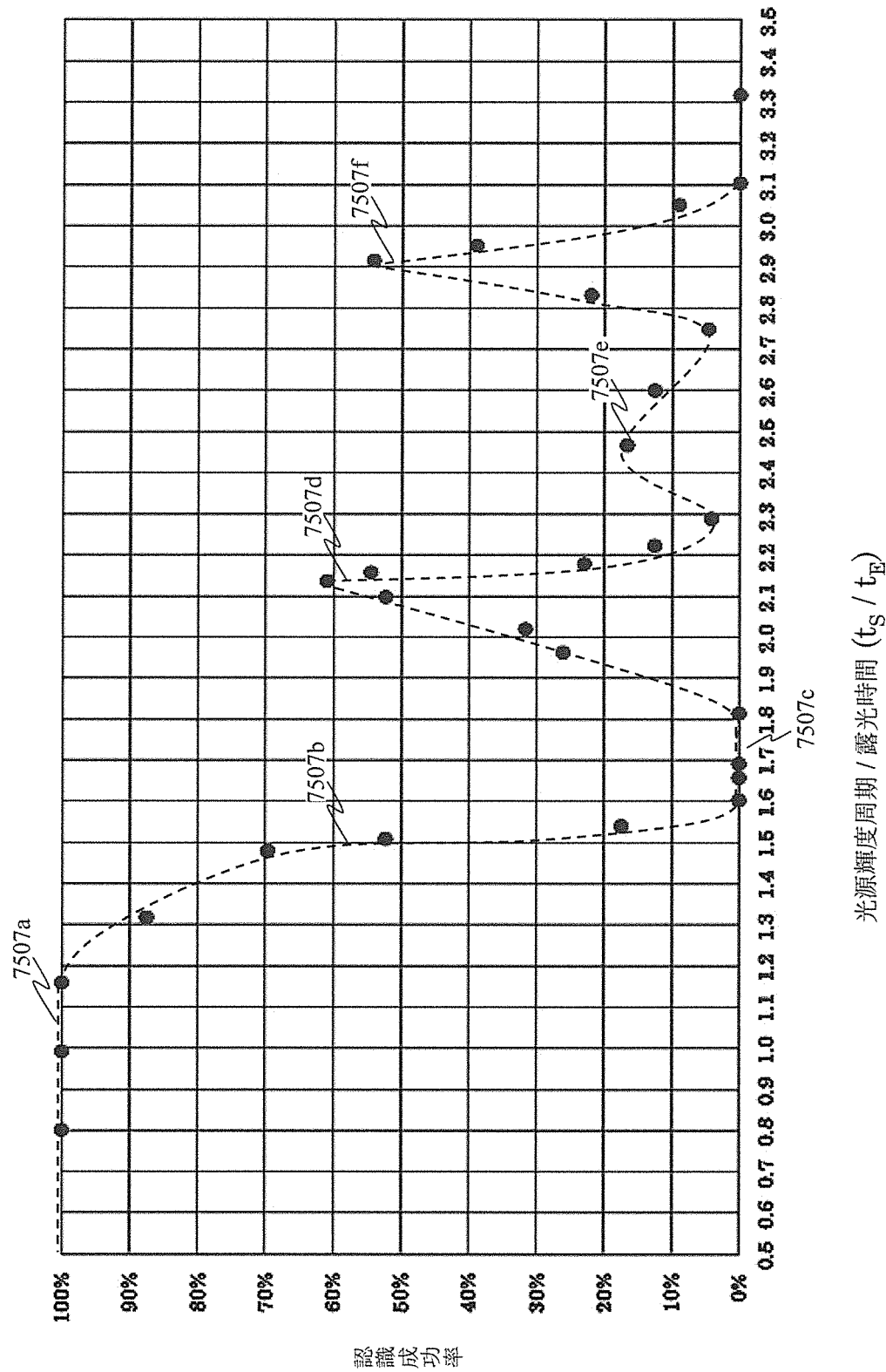
[図4G]



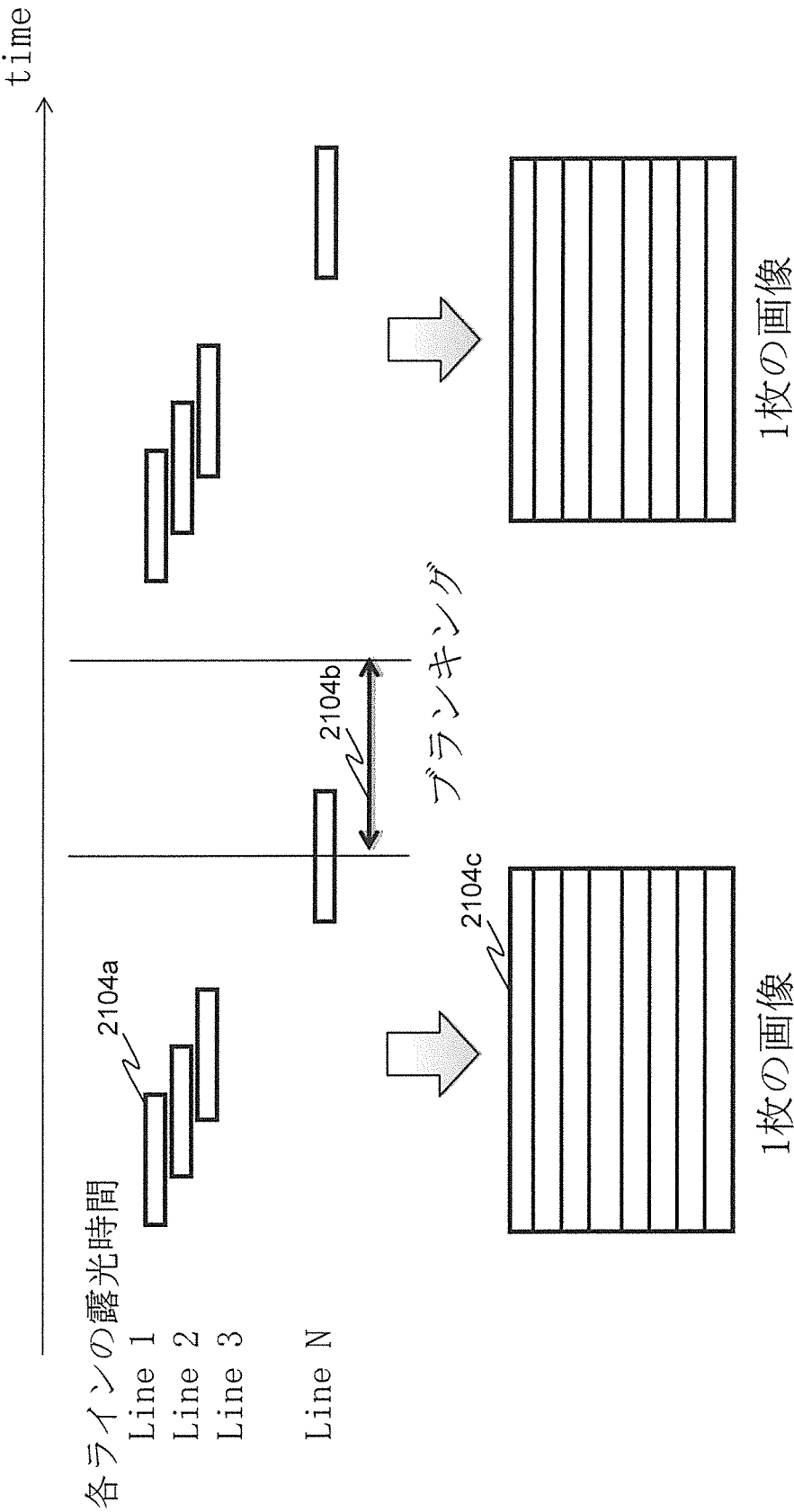
[図4H]



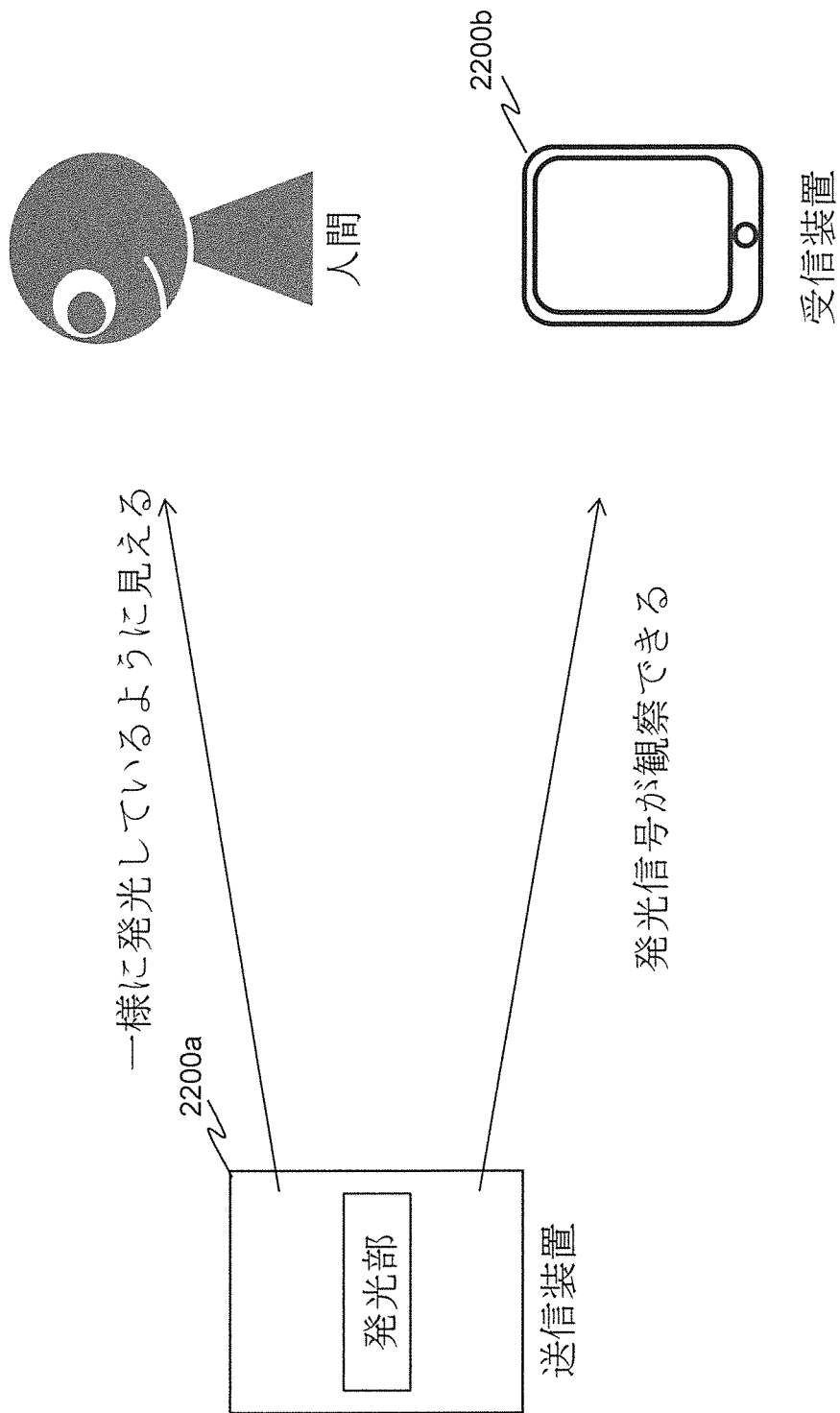
[図4I]



[図5]



[図6]



[図7]

2200.1a

送信する信号	変調後の信号
0	01
1	10

[図8]

2200.2a

送信する信号	変調後の信号
00 (0)	0111
01 (1)	1011
10 (2)	1101
11 (3)	1110

[図9]

2200.3a
↘

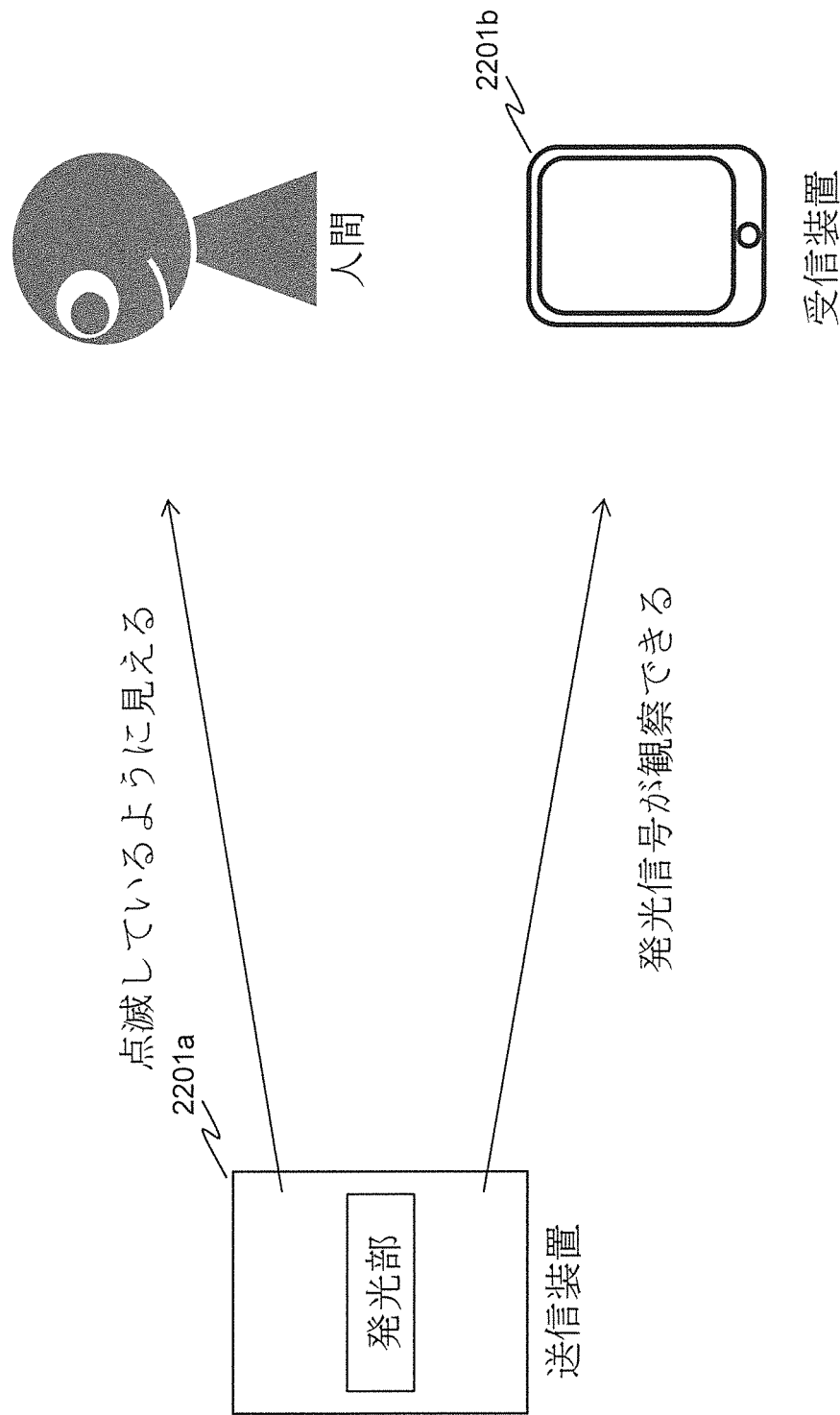
送信する信号	変調後の信号
000 (0)	01111111
001 (1)	10111111
010 (2)	11011111
011 (3)	11101111
100 (4)	11110111
101 (5)	11111011
110 (6)	11111101
111 (7)	11111110

[図10]

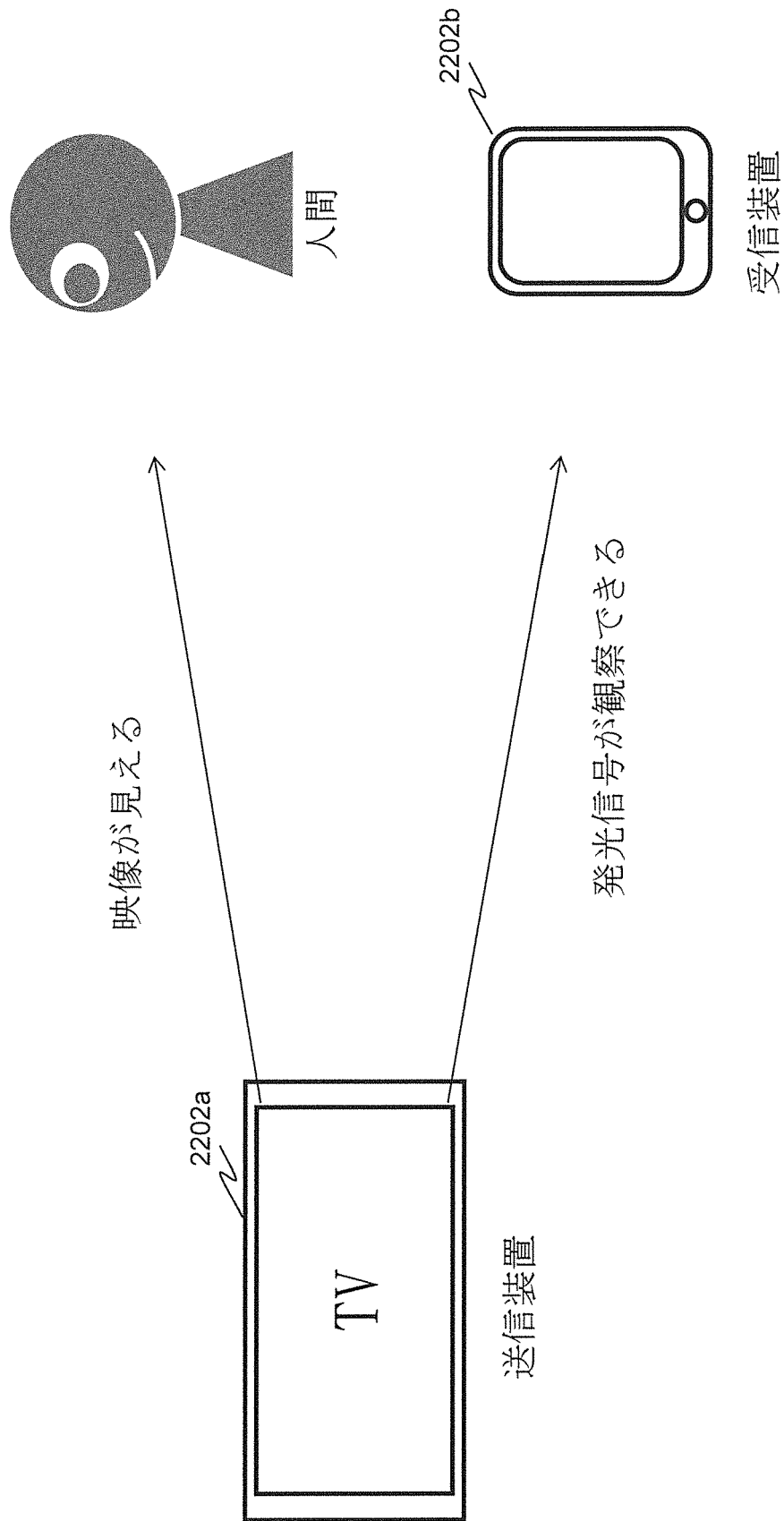
2200.4a

送信する信号	変調後の信号
00 (0)	1000
01 (1)	0100
10 (2)	0010
11 (3)	0001

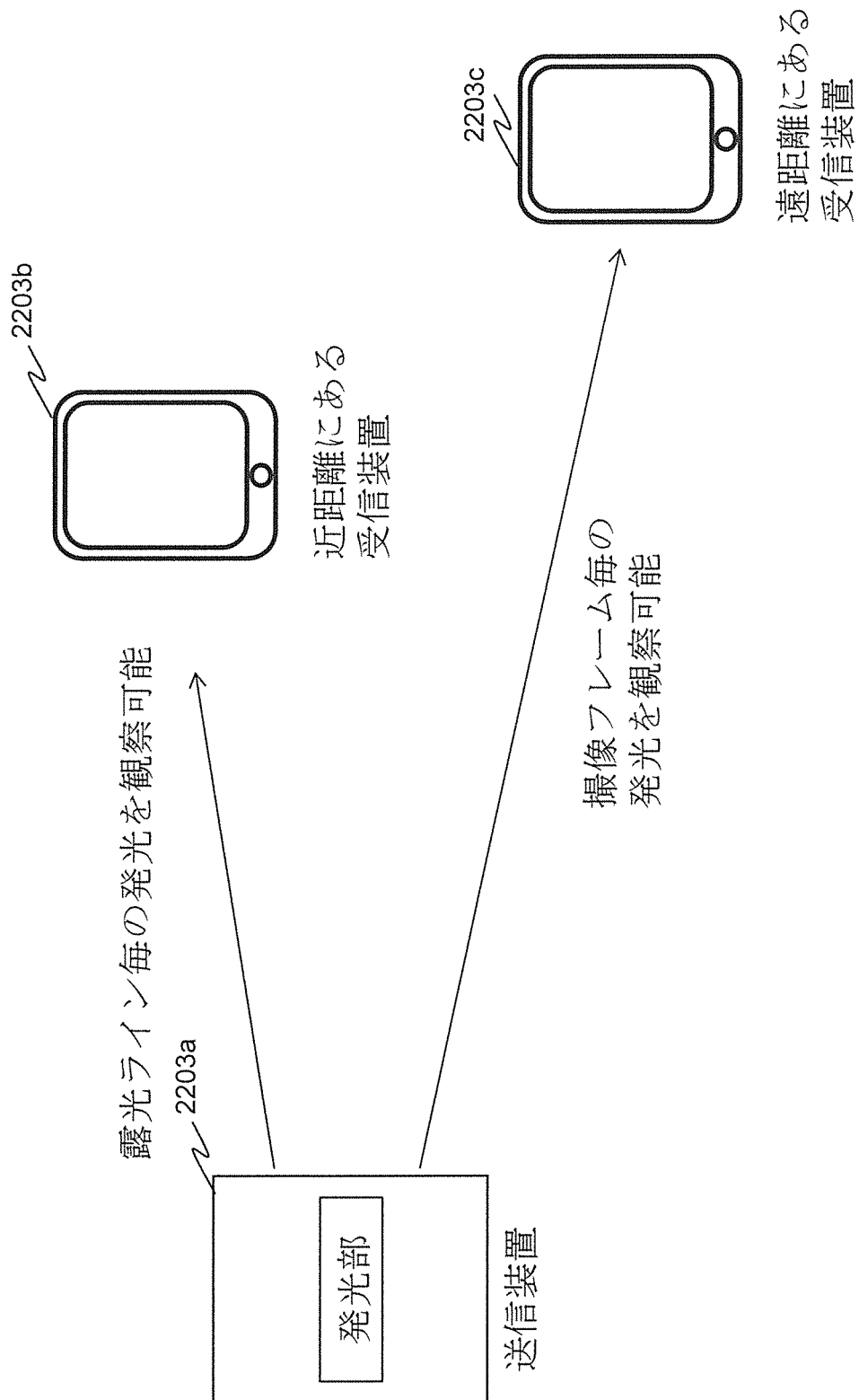
[図11]



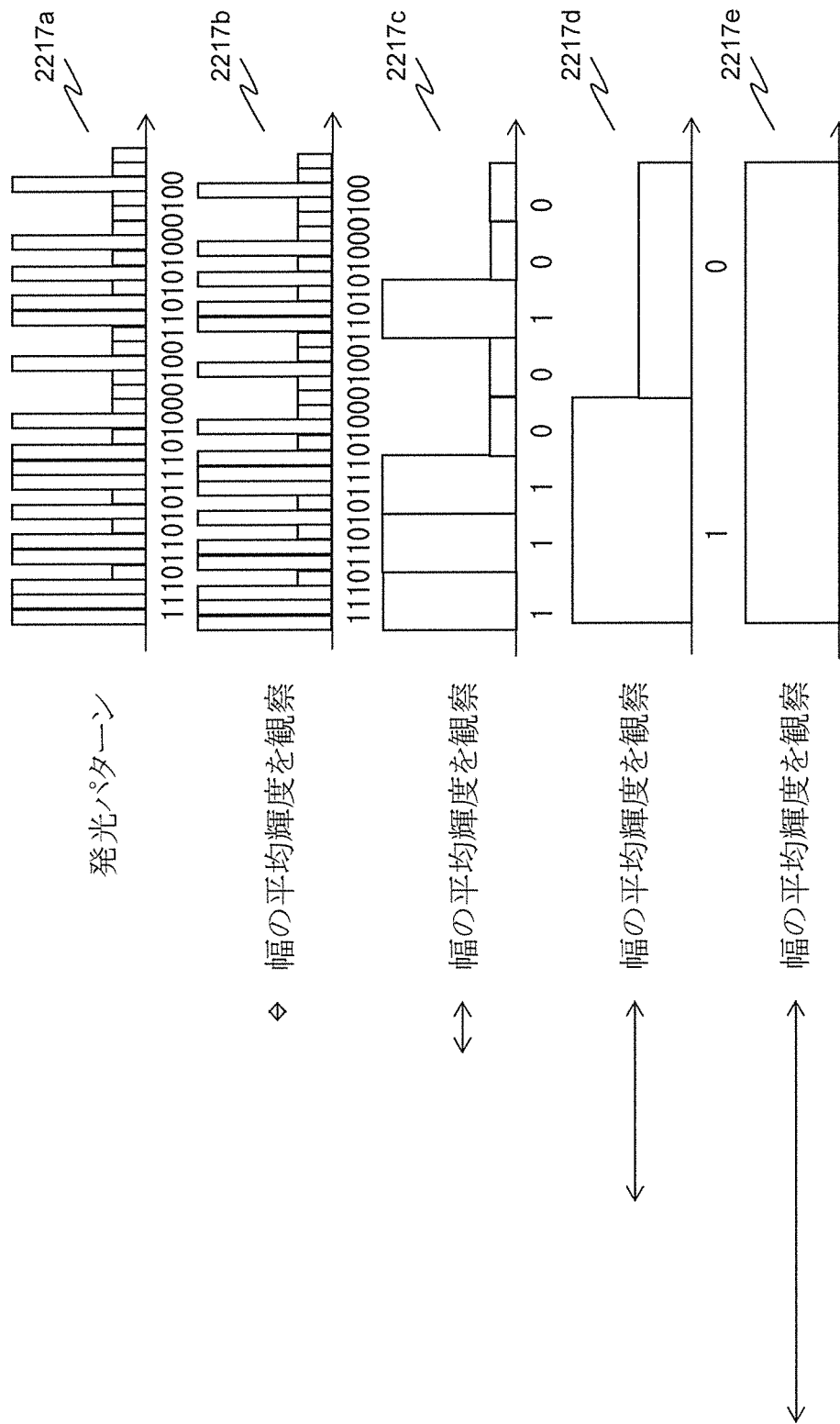
[図12]



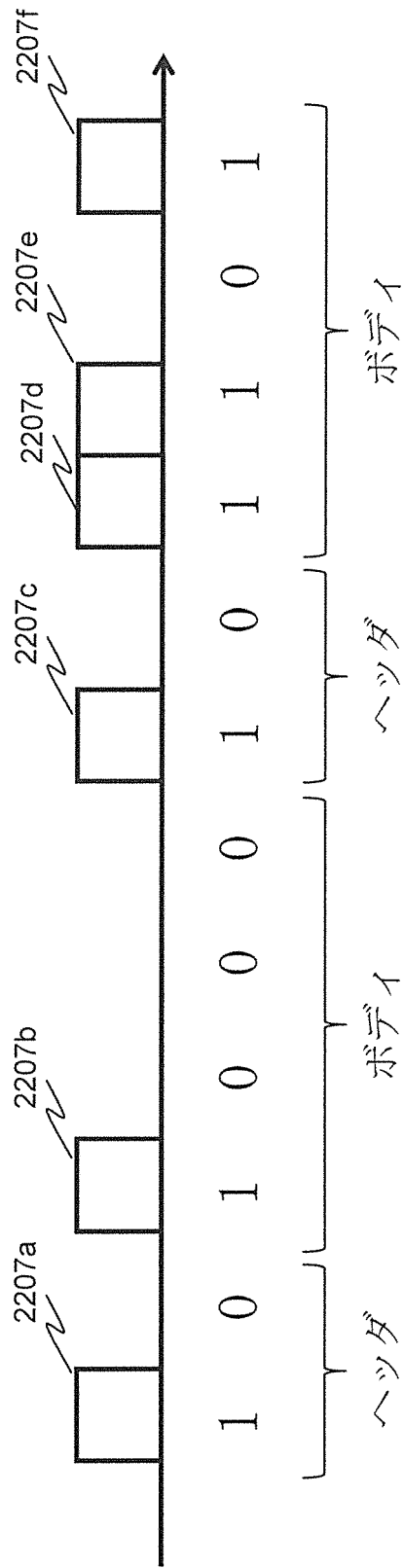
[図13]



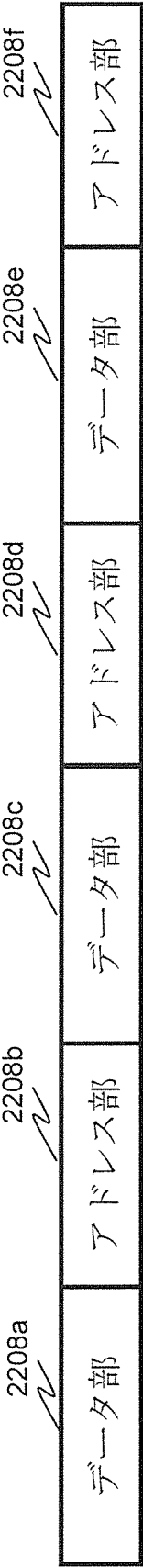
[図14]



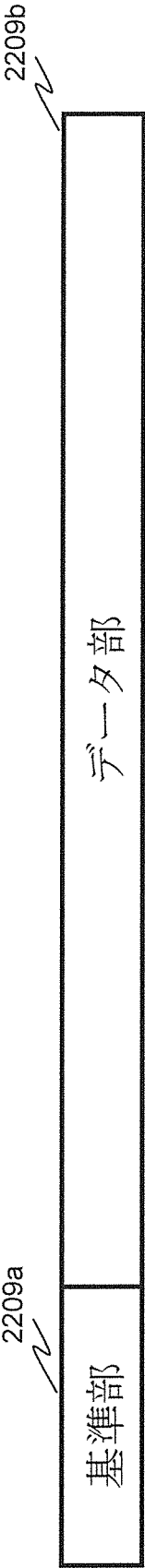
[図15]



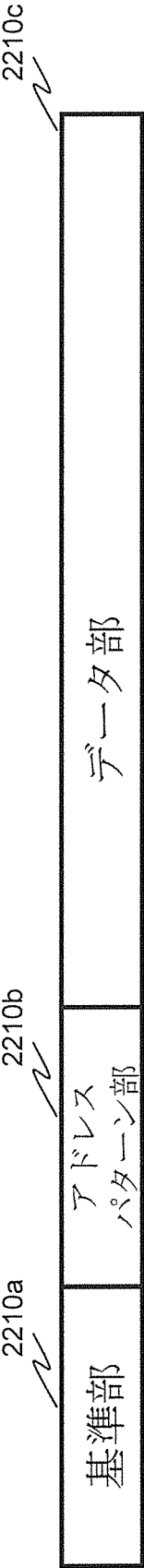
[図16]



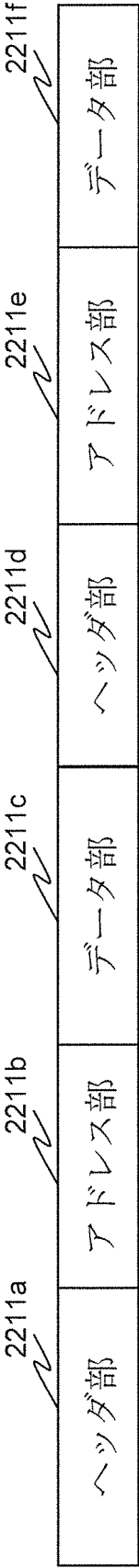
[図17]



[図18]



[図19]



[図20]

送信情報	優先度
情報1	3 (High)
情報2	2 (Normal)
情報3	1 (Low)

送信順序1

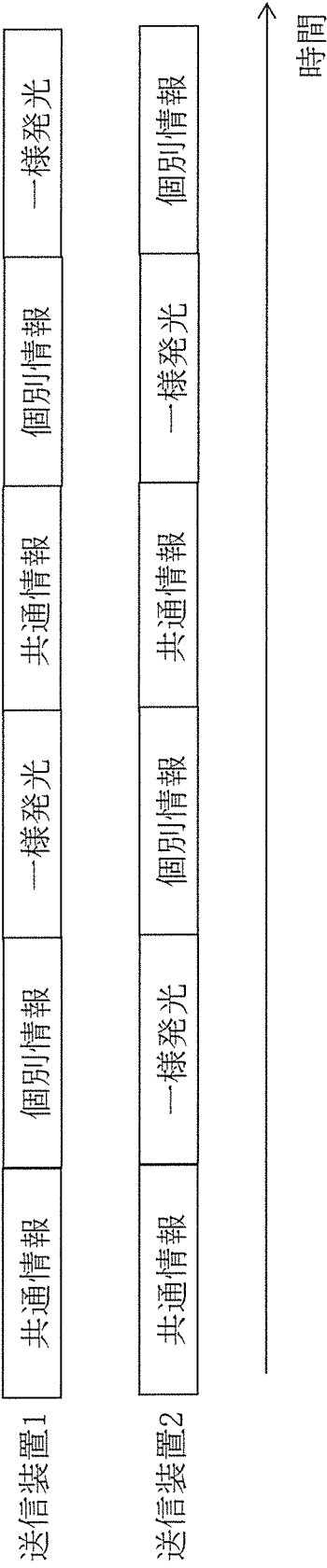
情報1	情報1	情報1	情報1	情報1	情報1	情報2	情報2	情報2	情報2	情報3	情報3	情報3
-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----

送信順序2

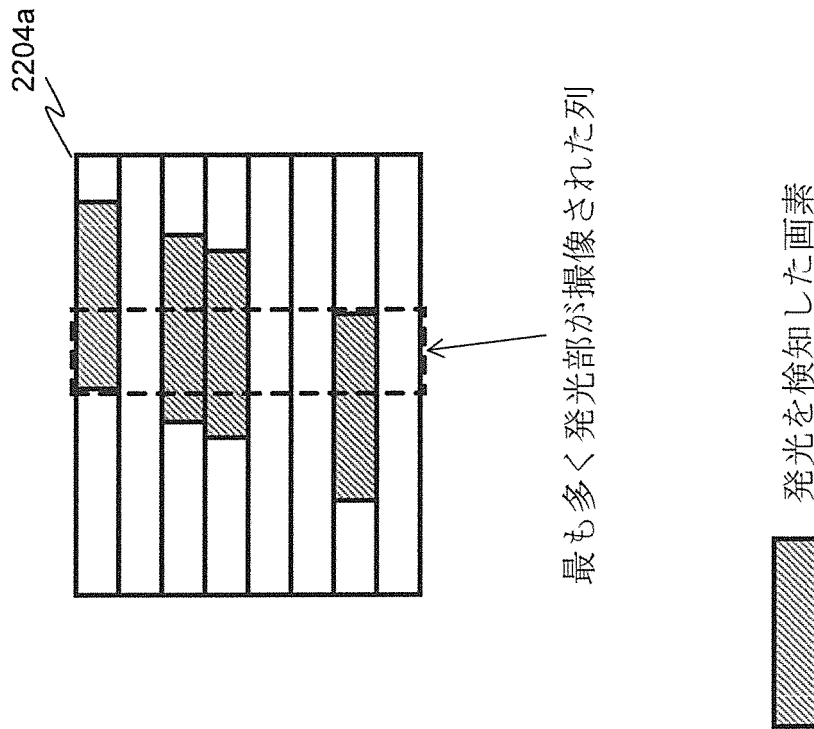
情報1	情報2	情報1	情報3	情報1	情報2	情報1	情報1	情報2	情報1	情報3	情報1	情報2
-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----



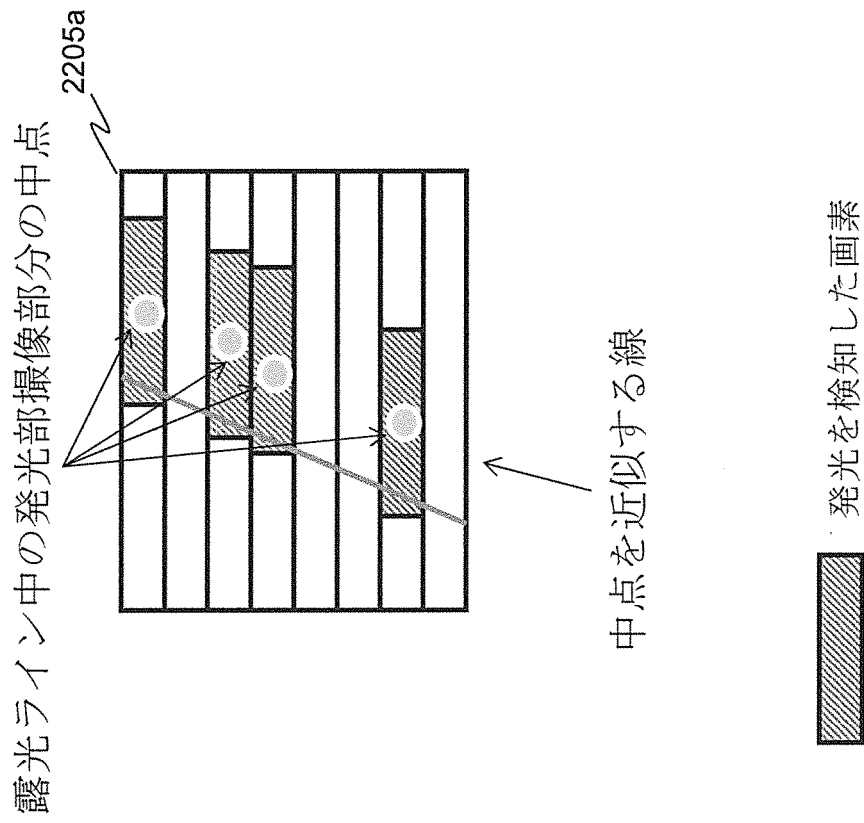
[図21]



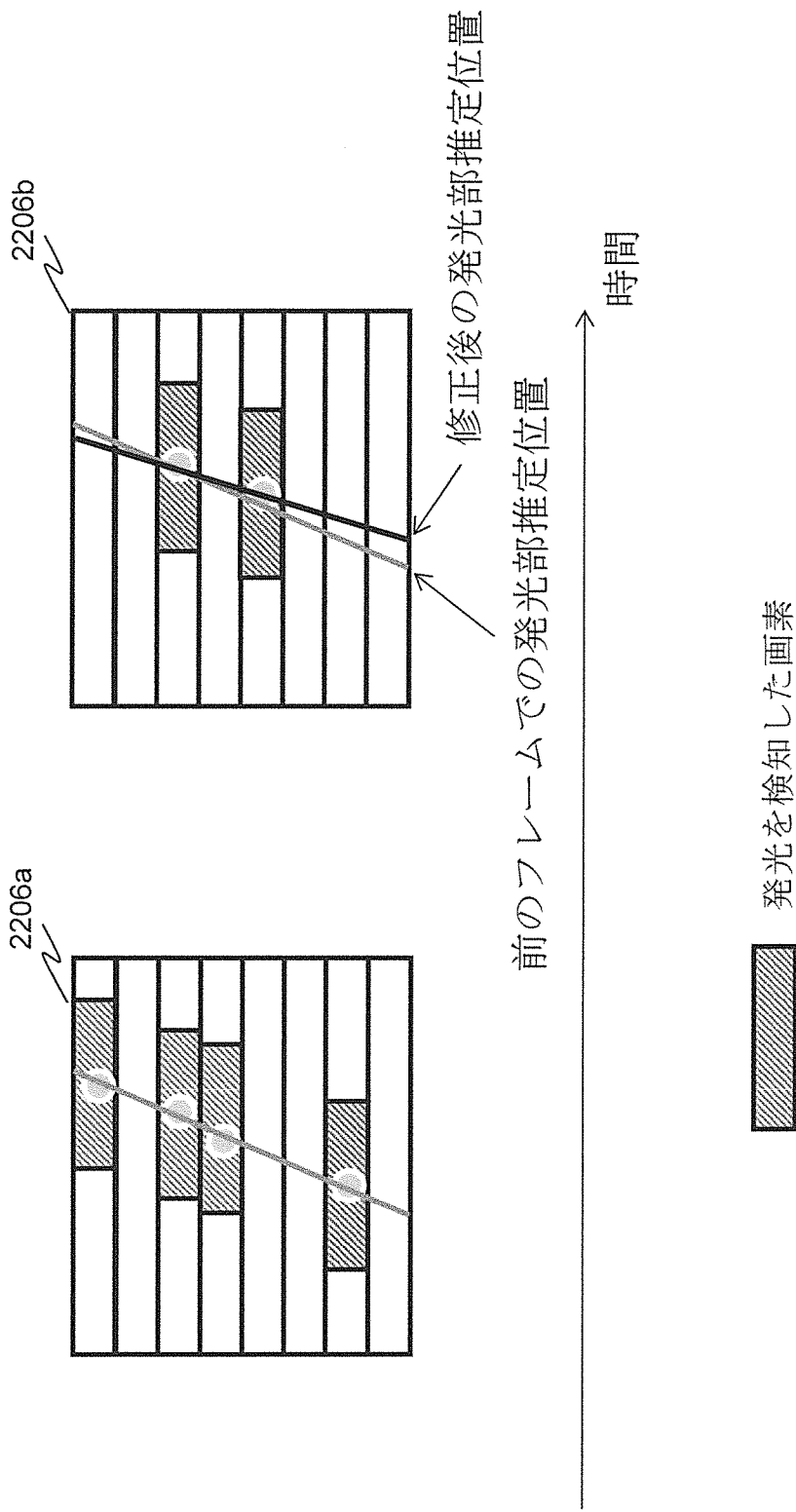
[図22]



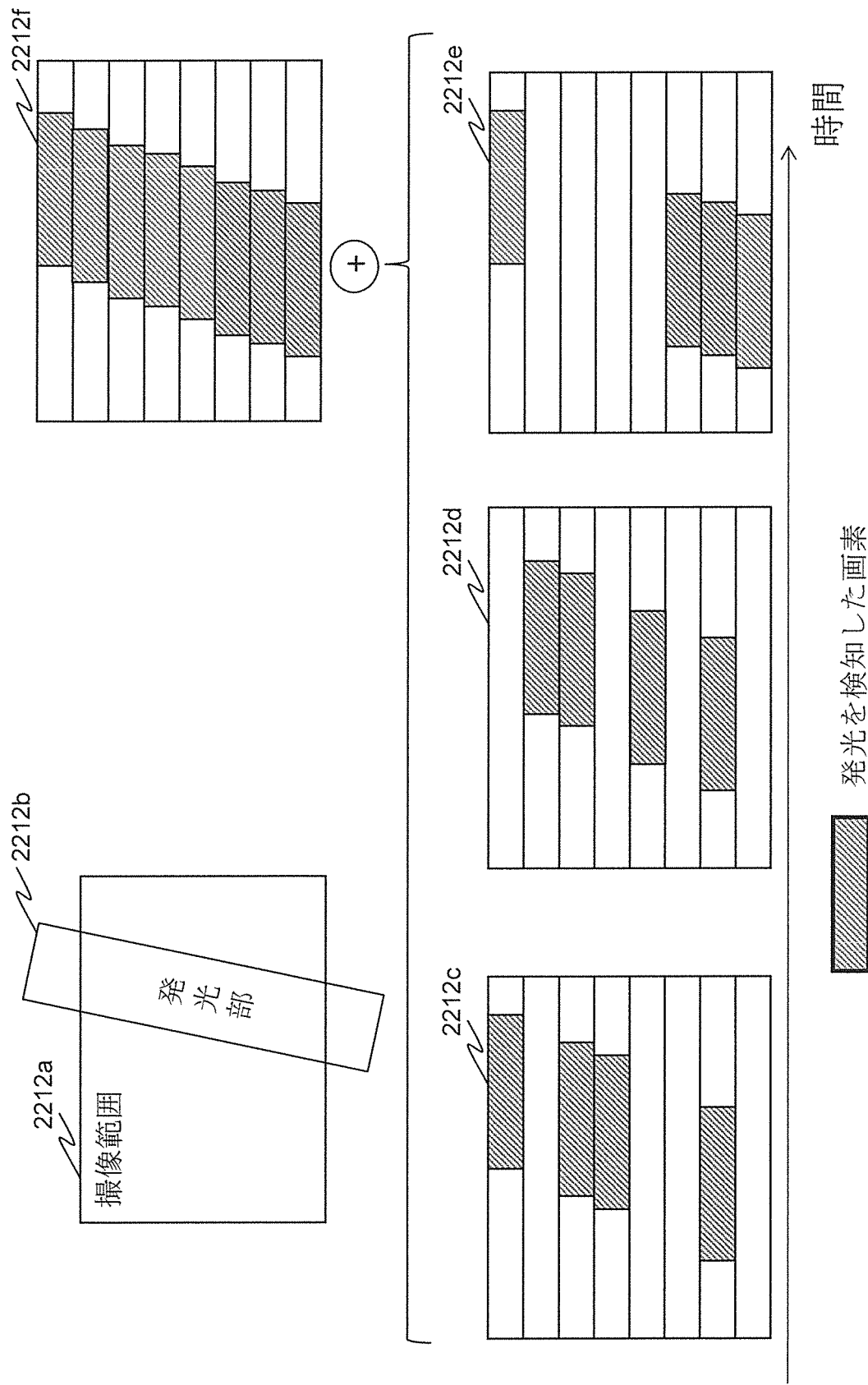
[図23]



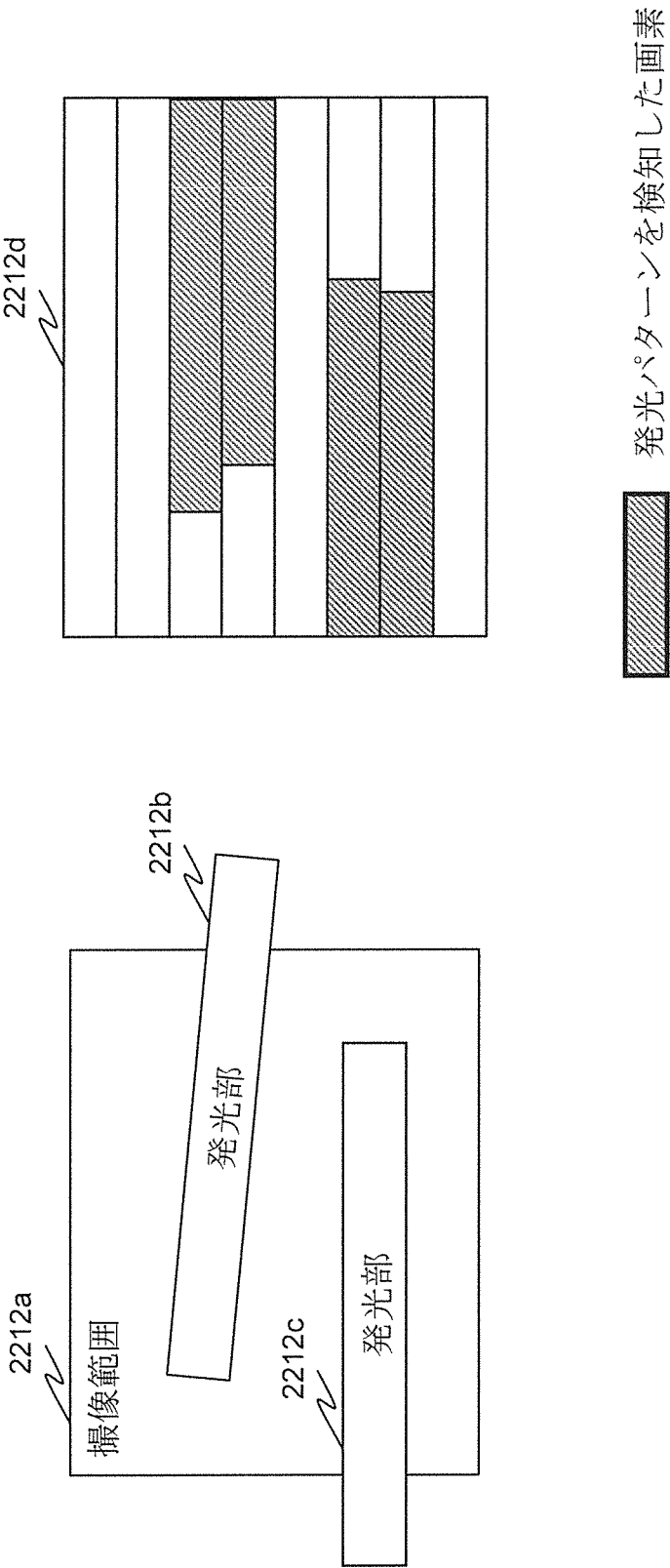
[図24]



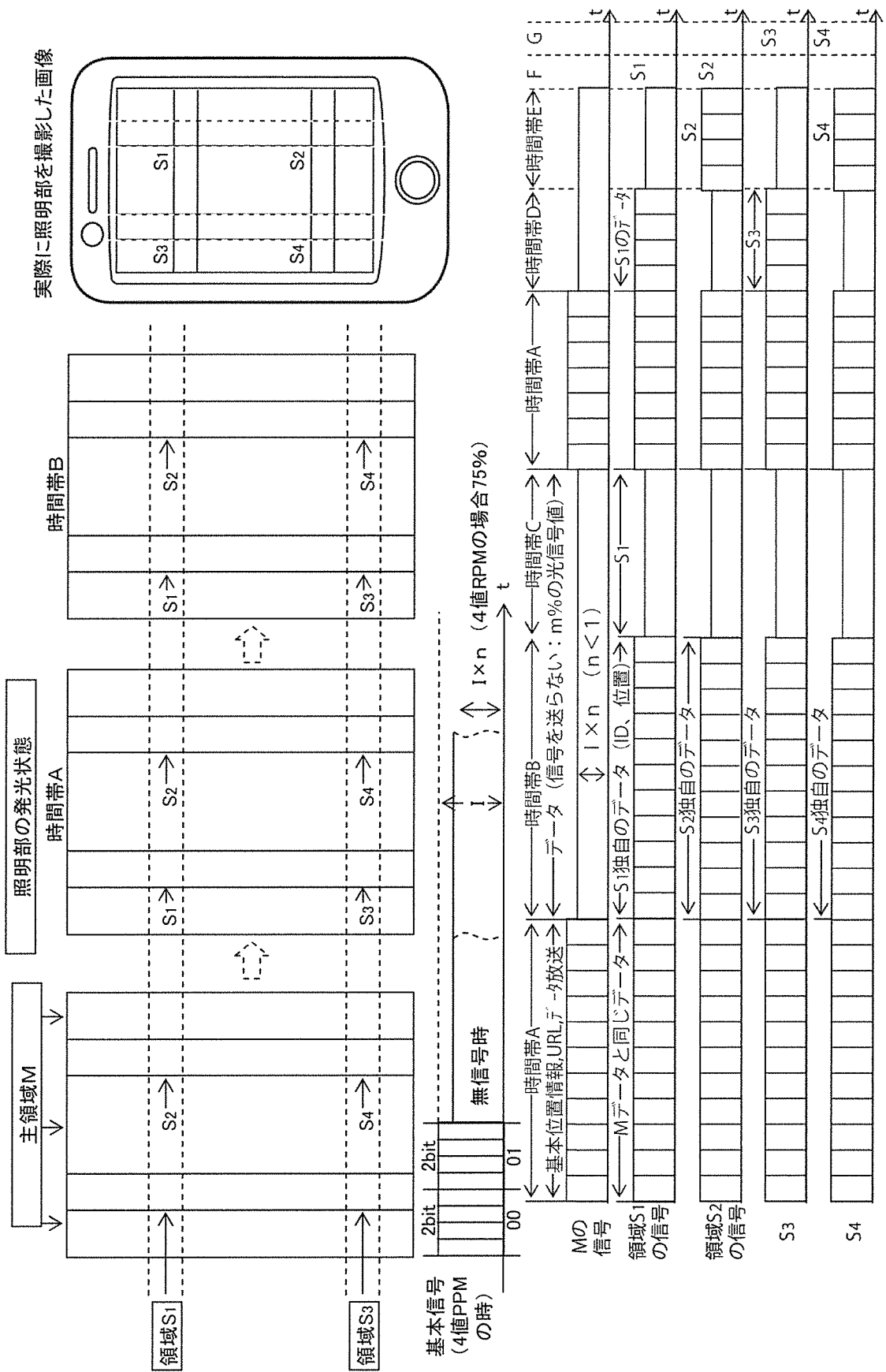
[図25]



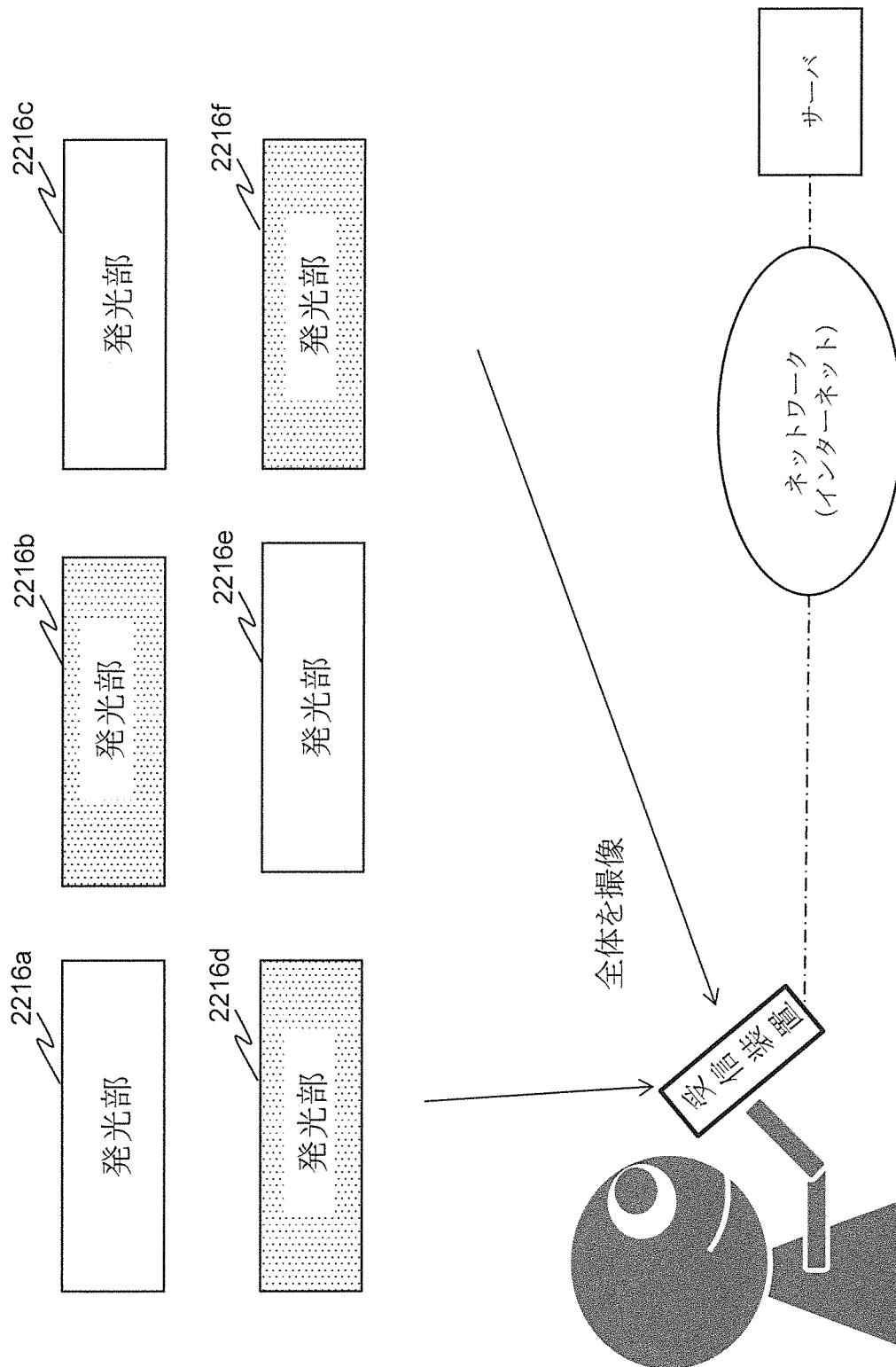
[図26]



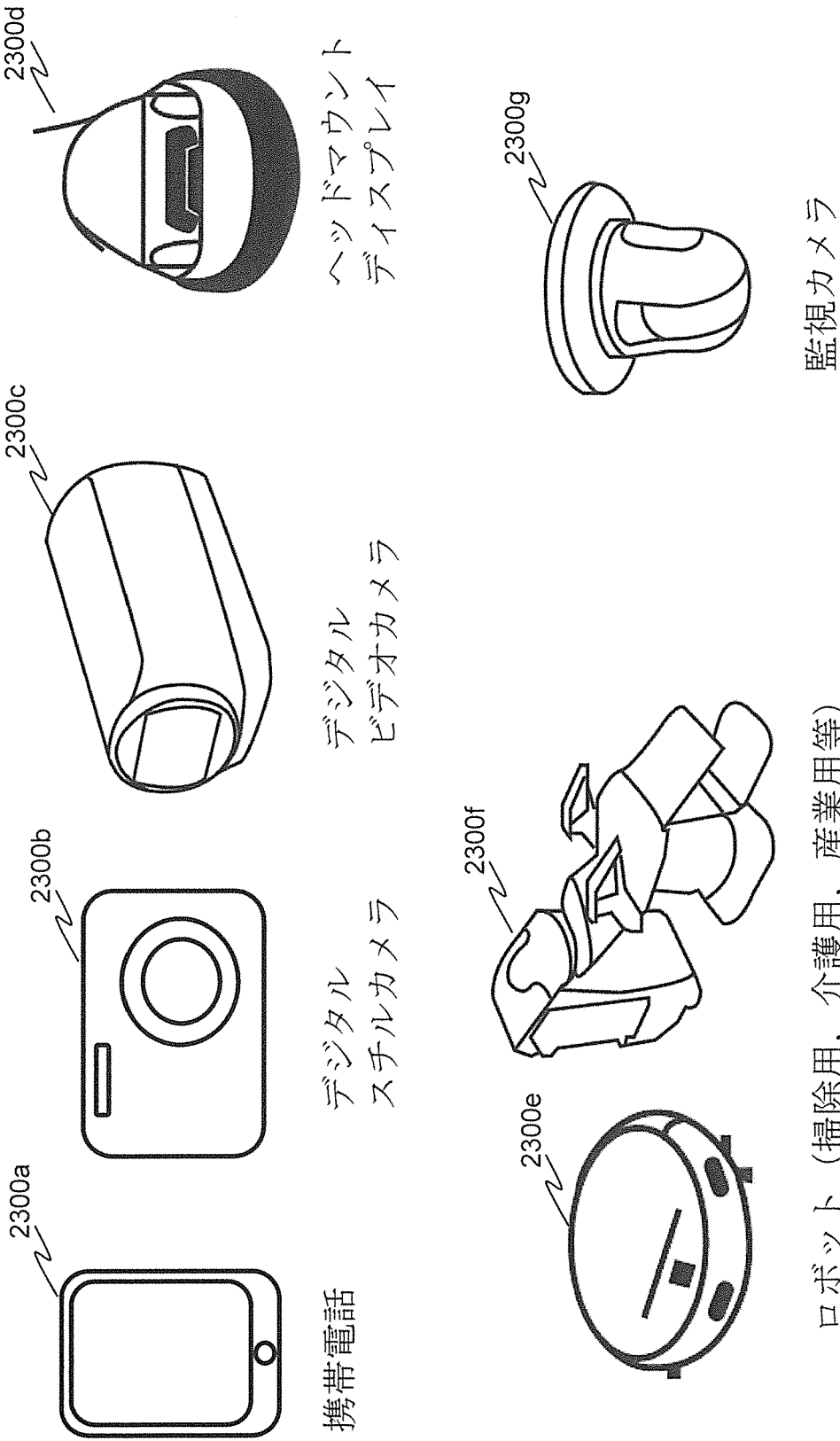
[図27]



[図28]

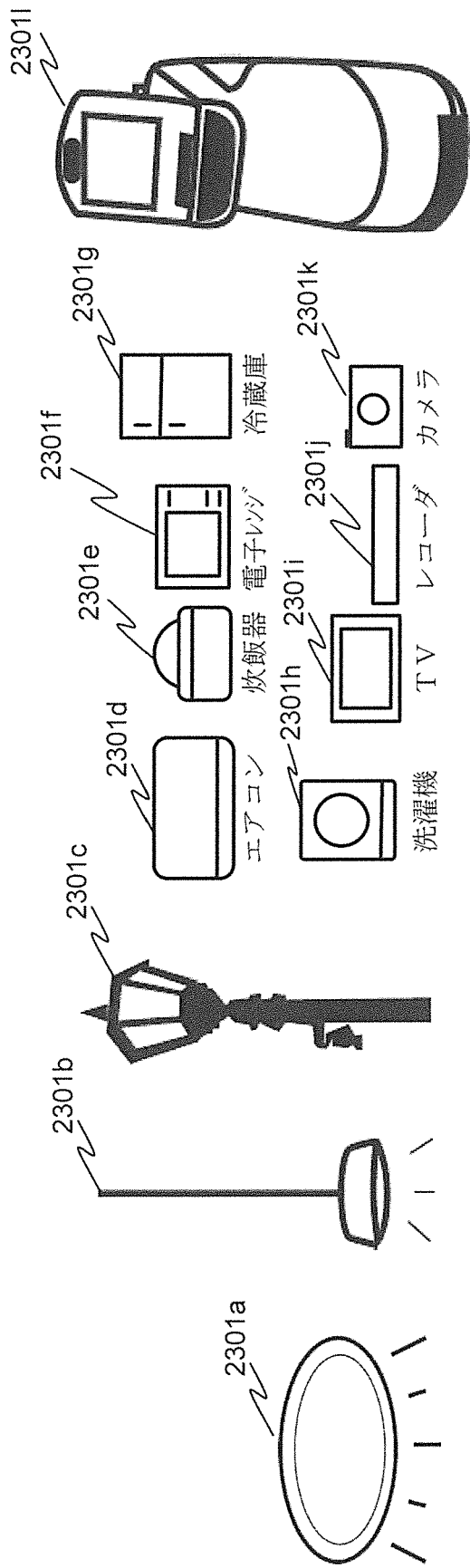


[図29]



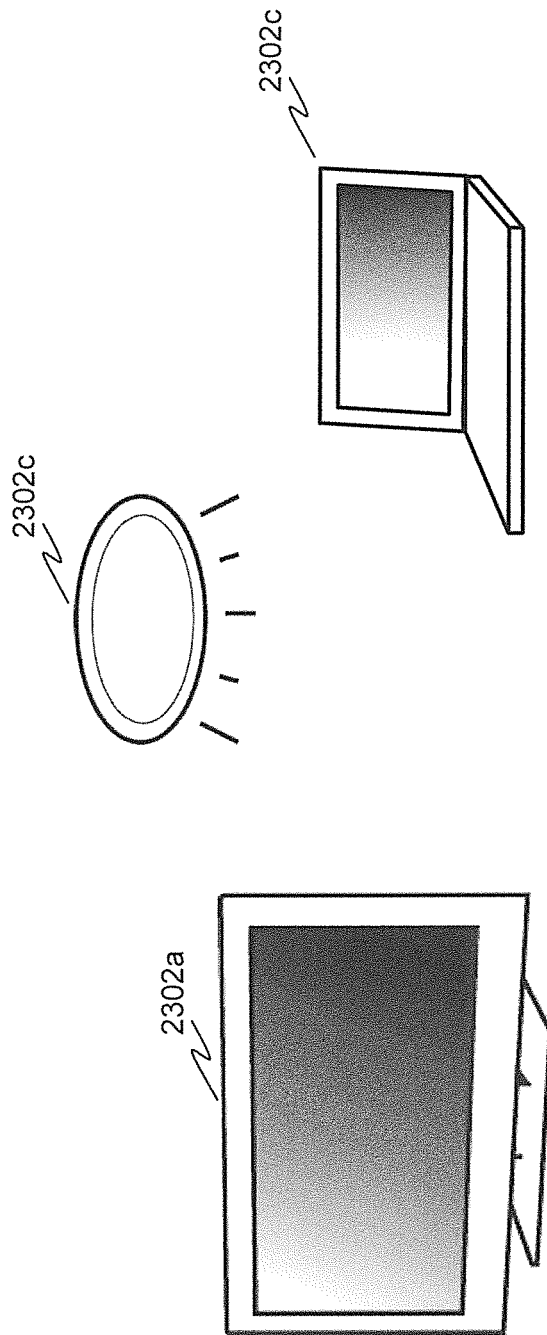
受信装置の例

[図30]

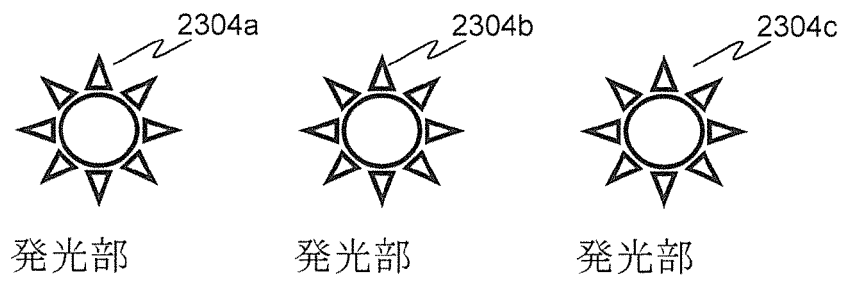


送信装置の例

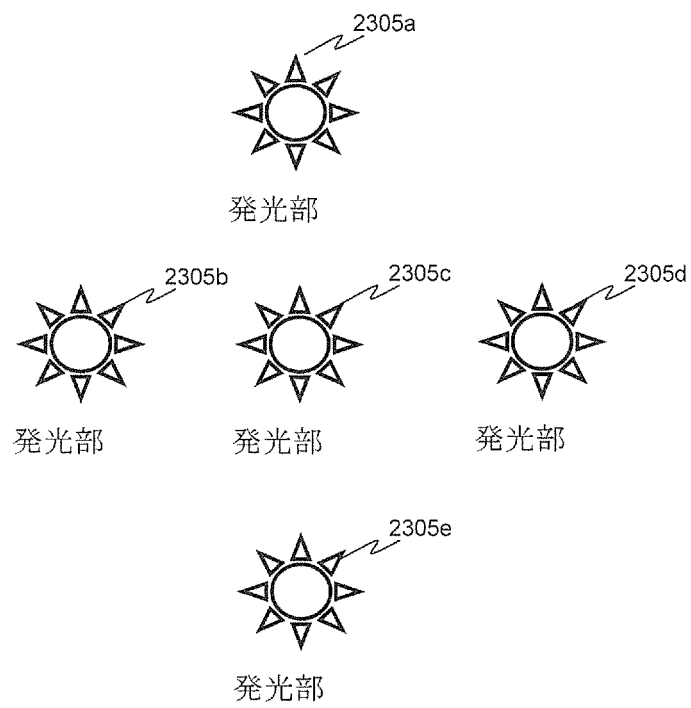
[図31]



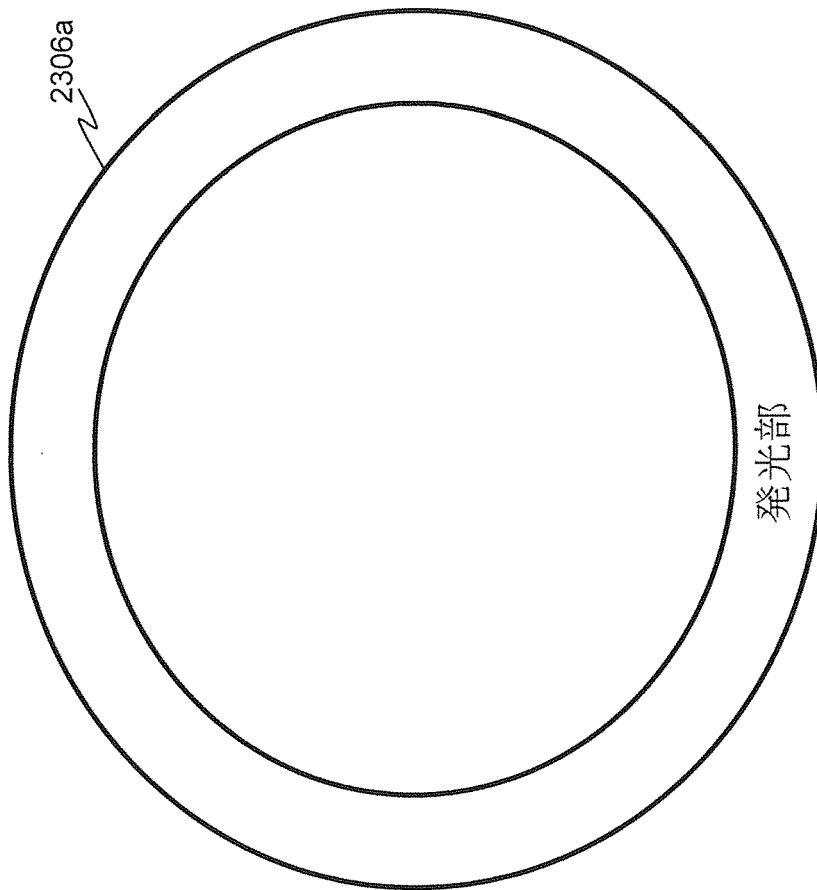
[図32]



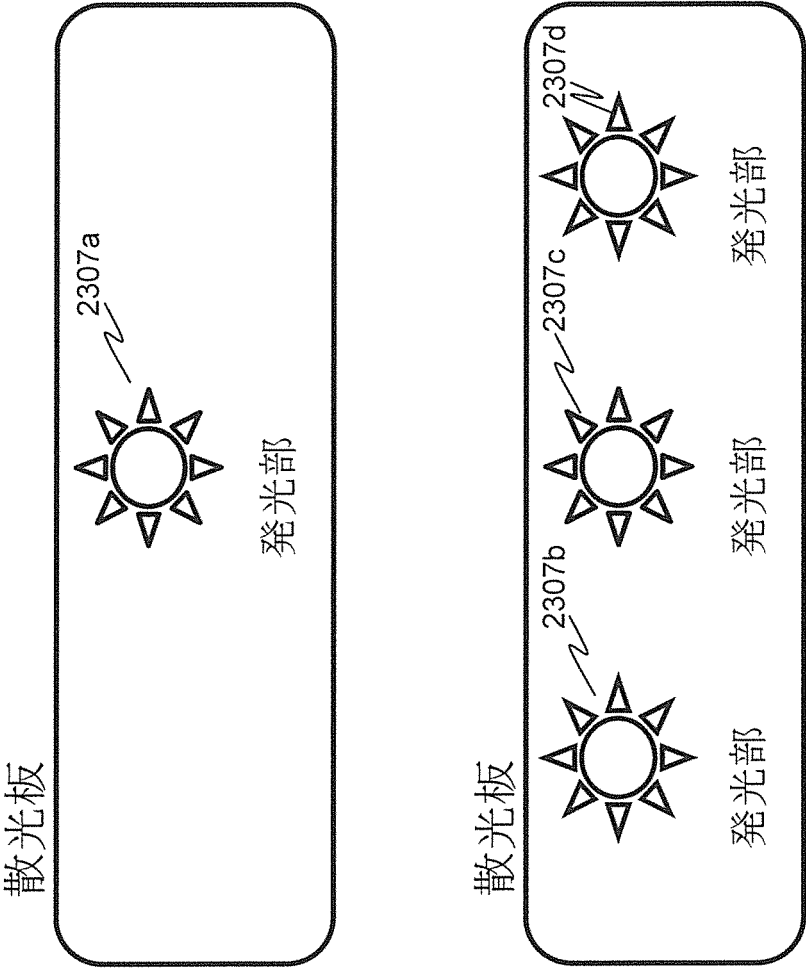
[図33]



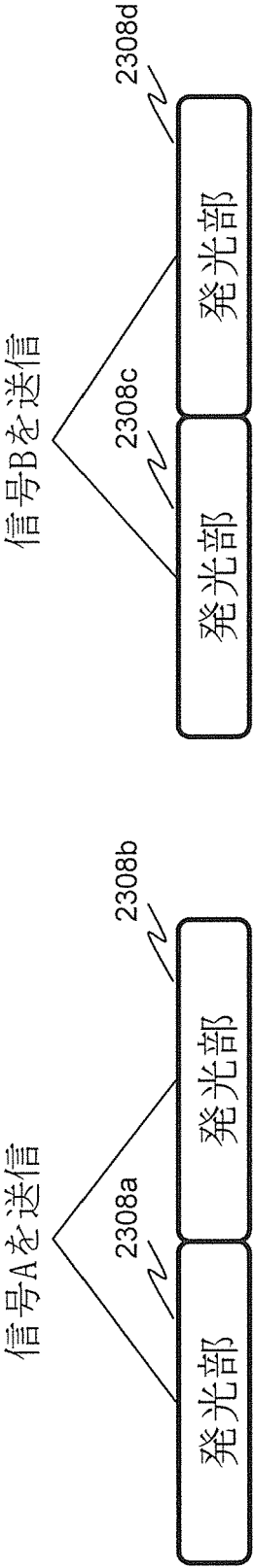
[図34]



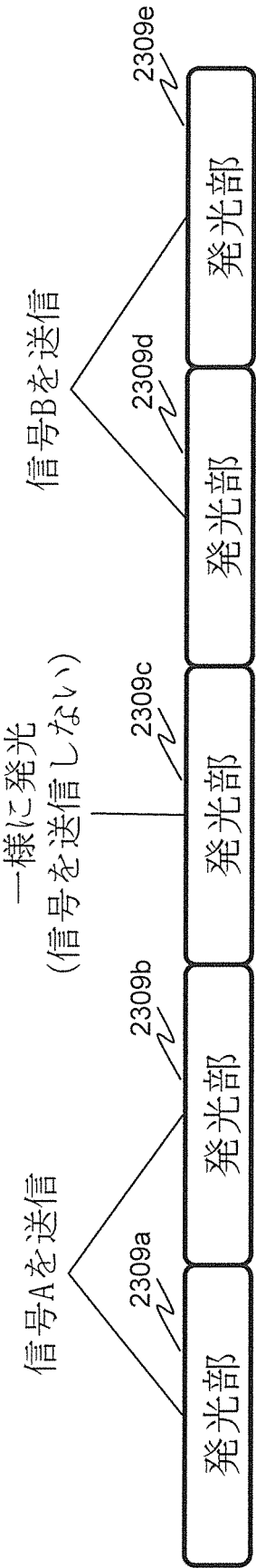
[図35]



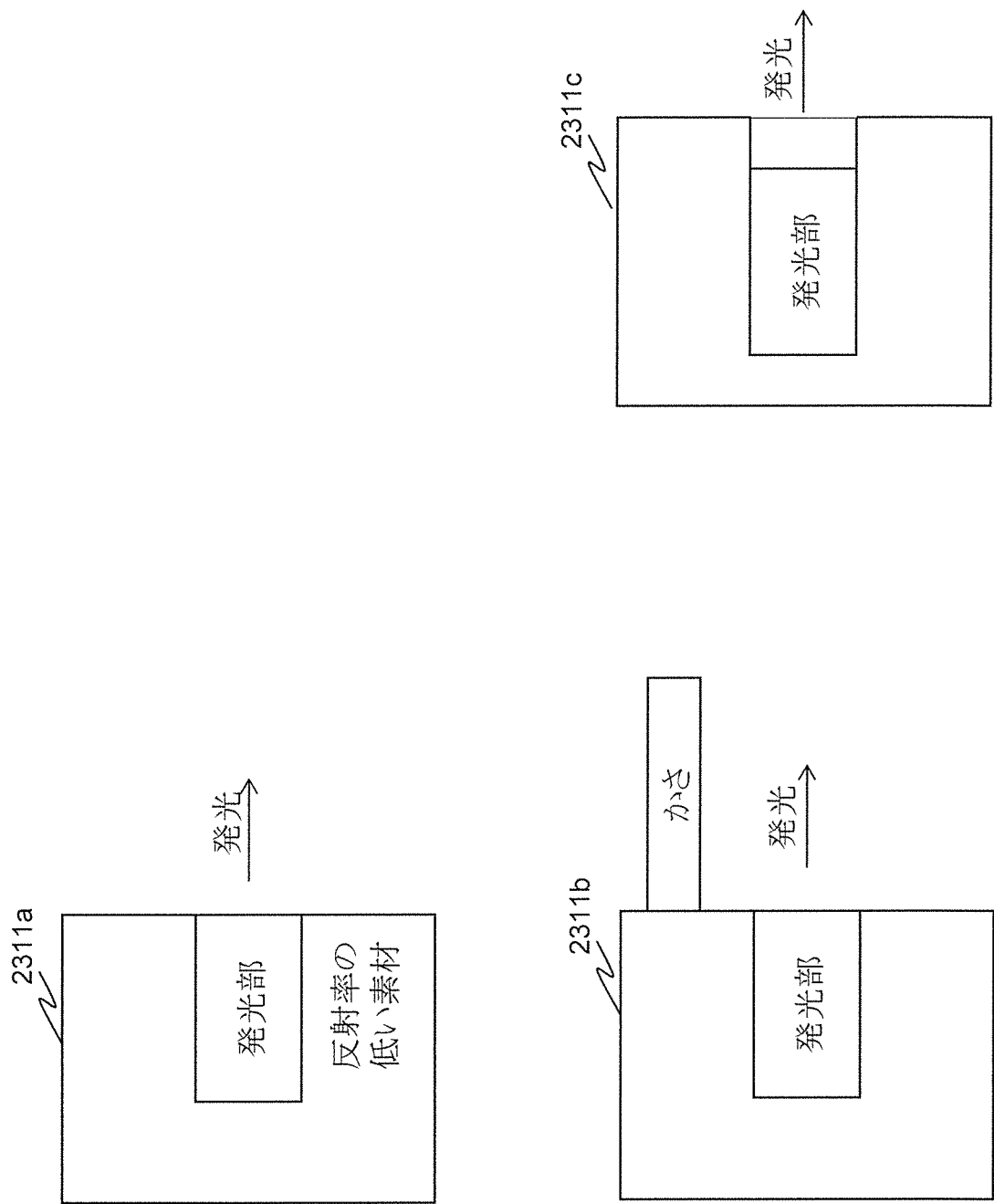
[図36]



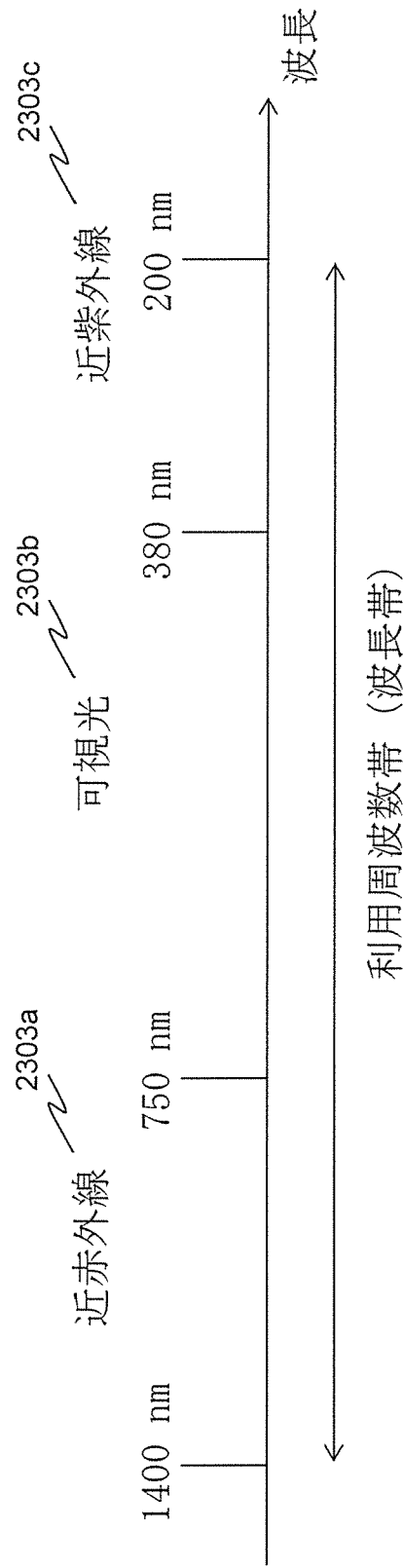
[図37]



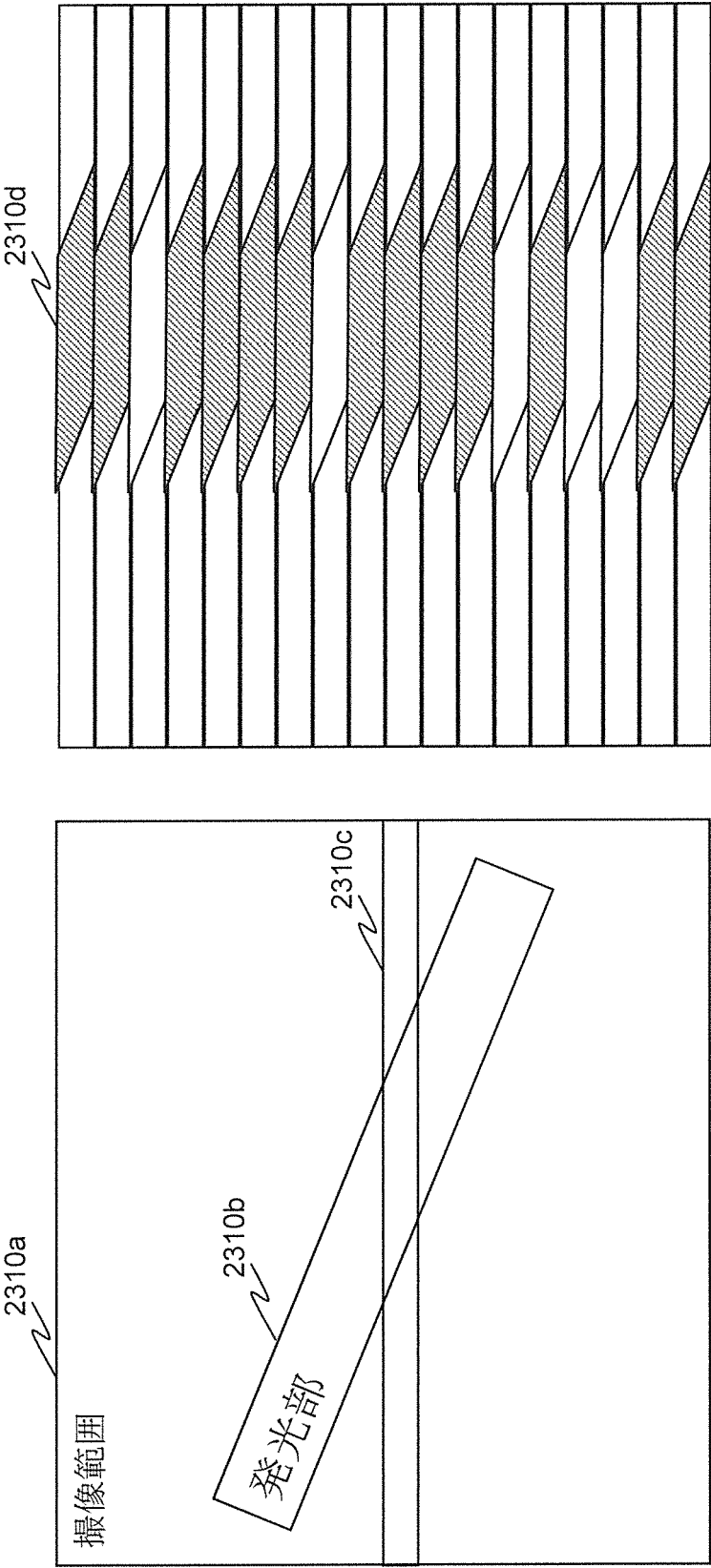
[図38]



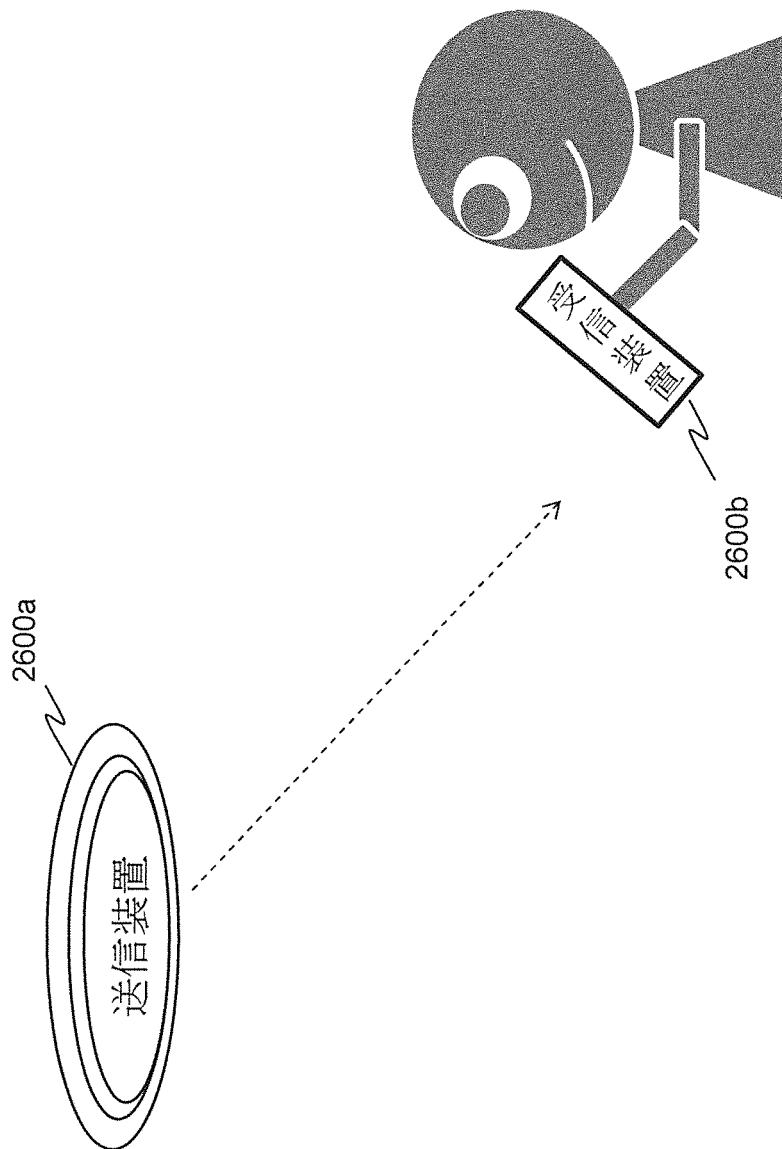
[図39]



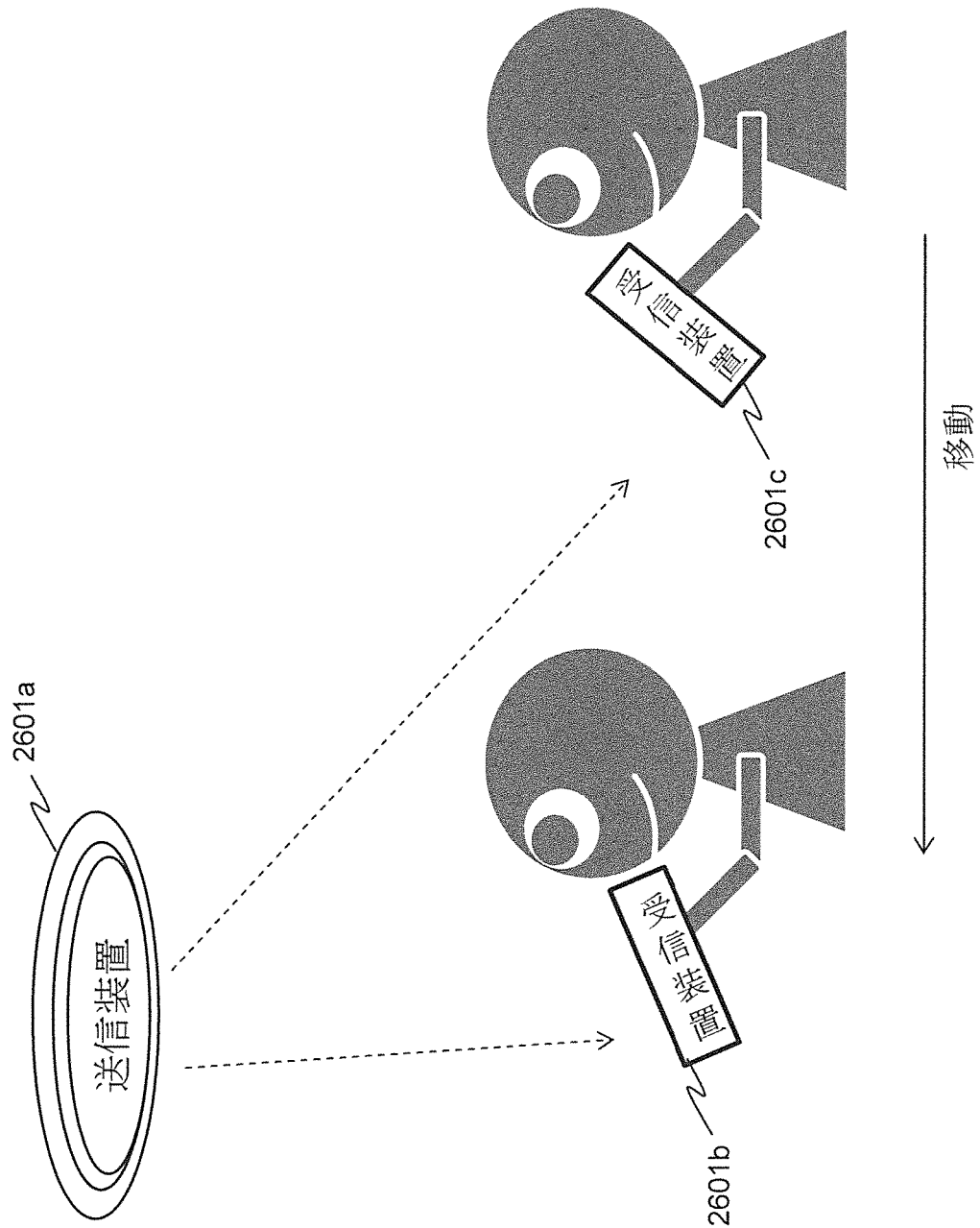
[図40]



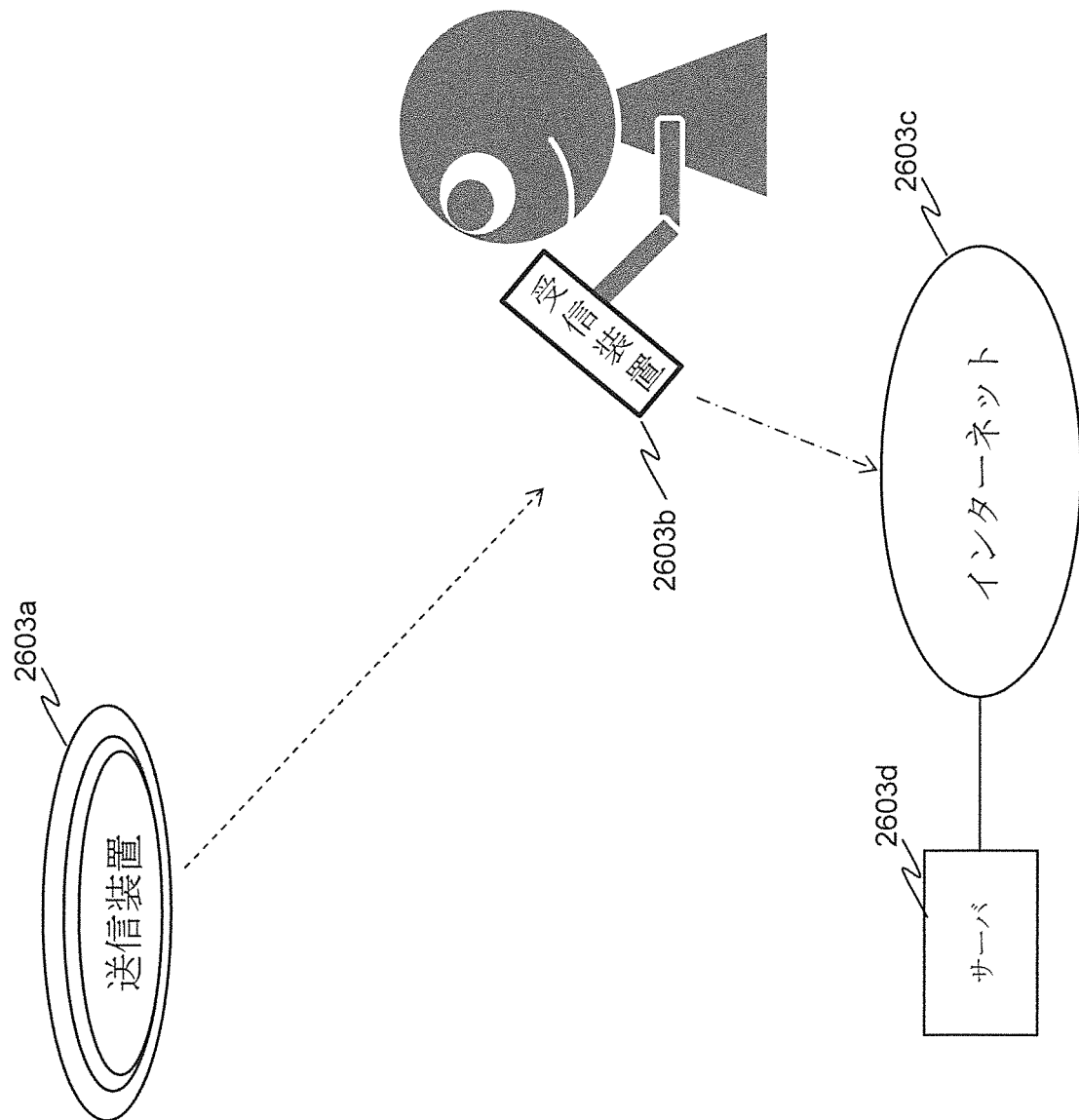
[図41]



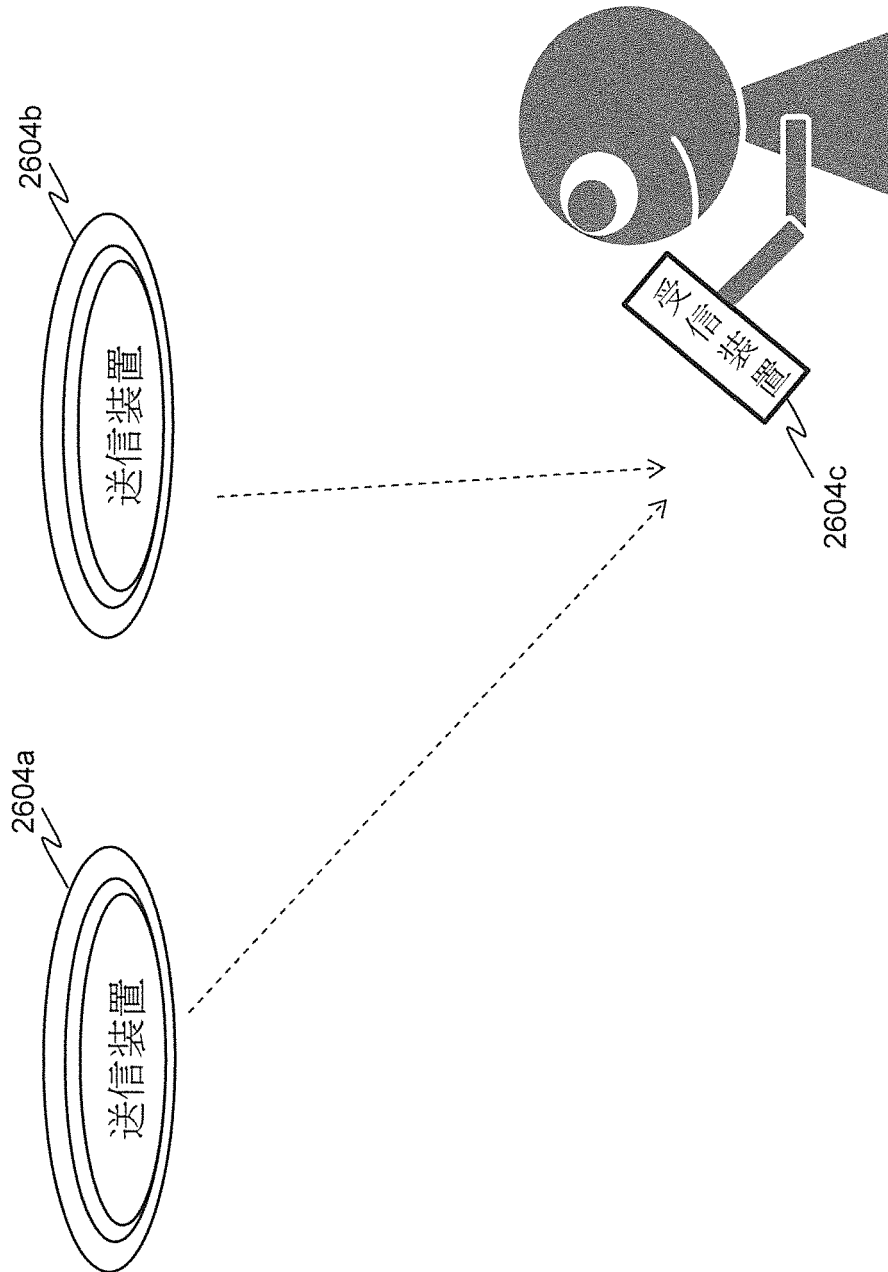
[図42]



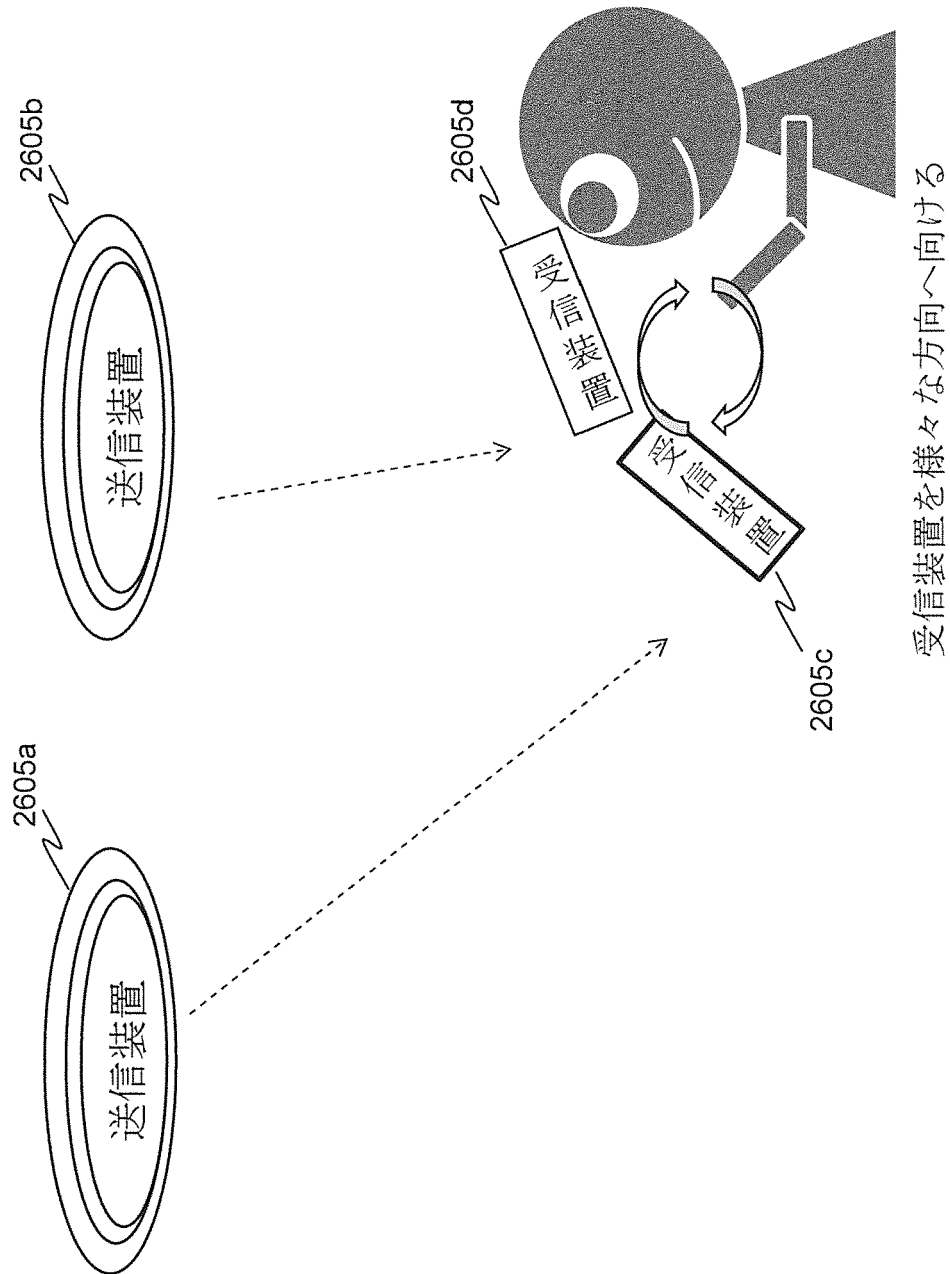
[図43]



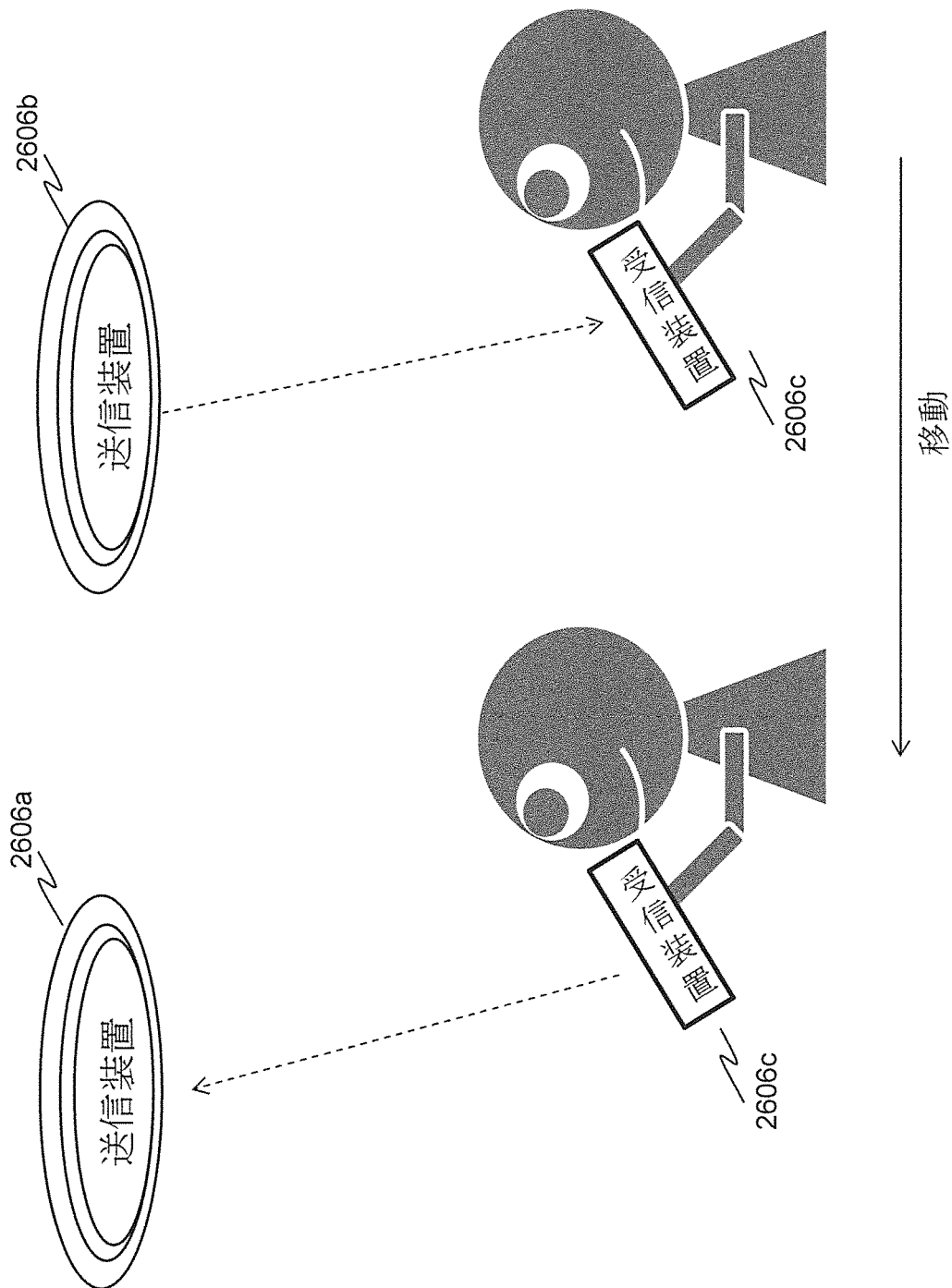
[図44]



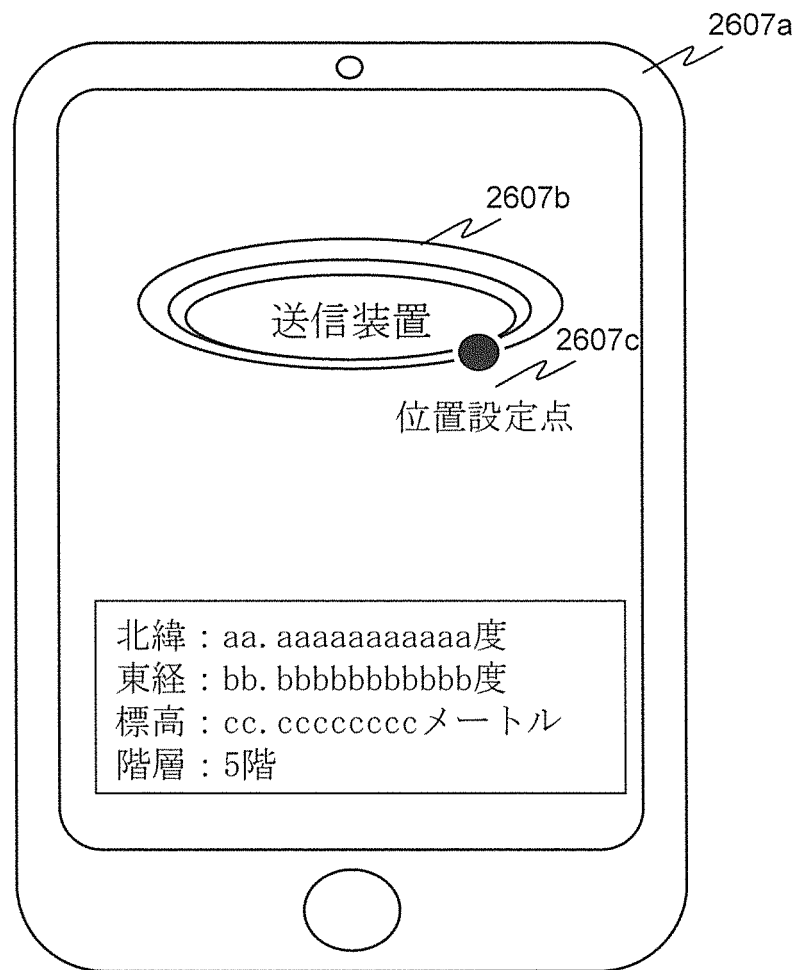
[図45]



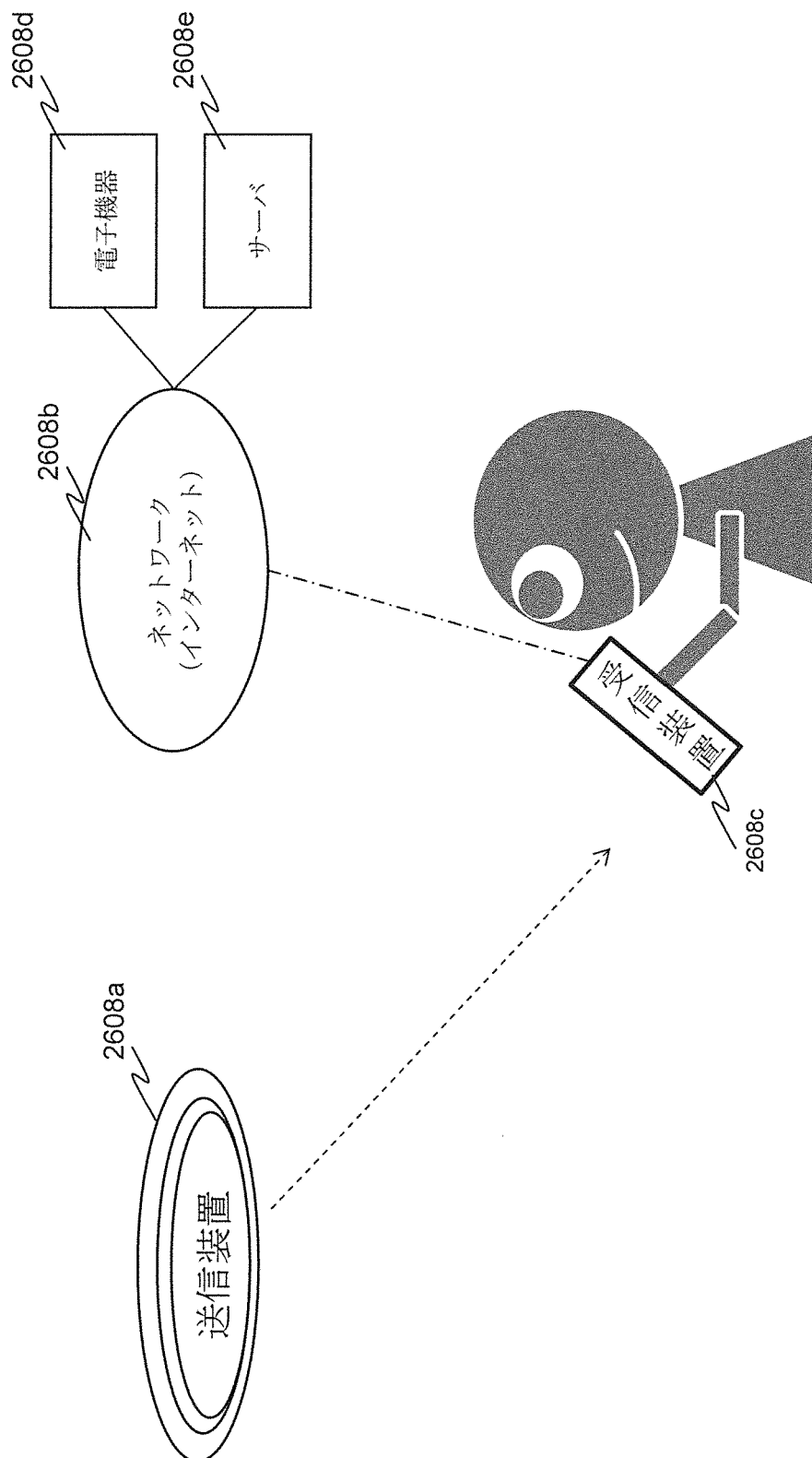
[図46]



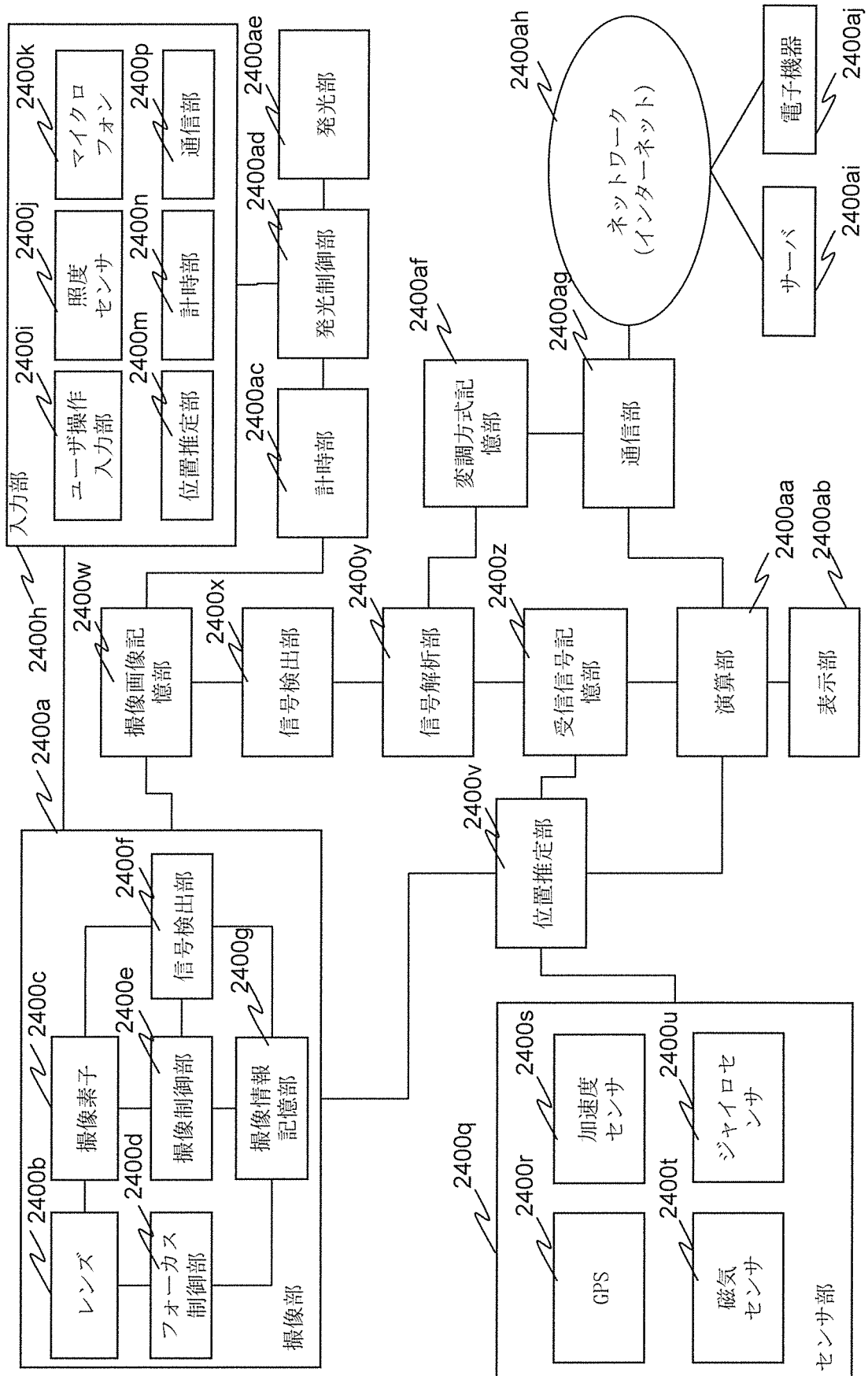
[図47]



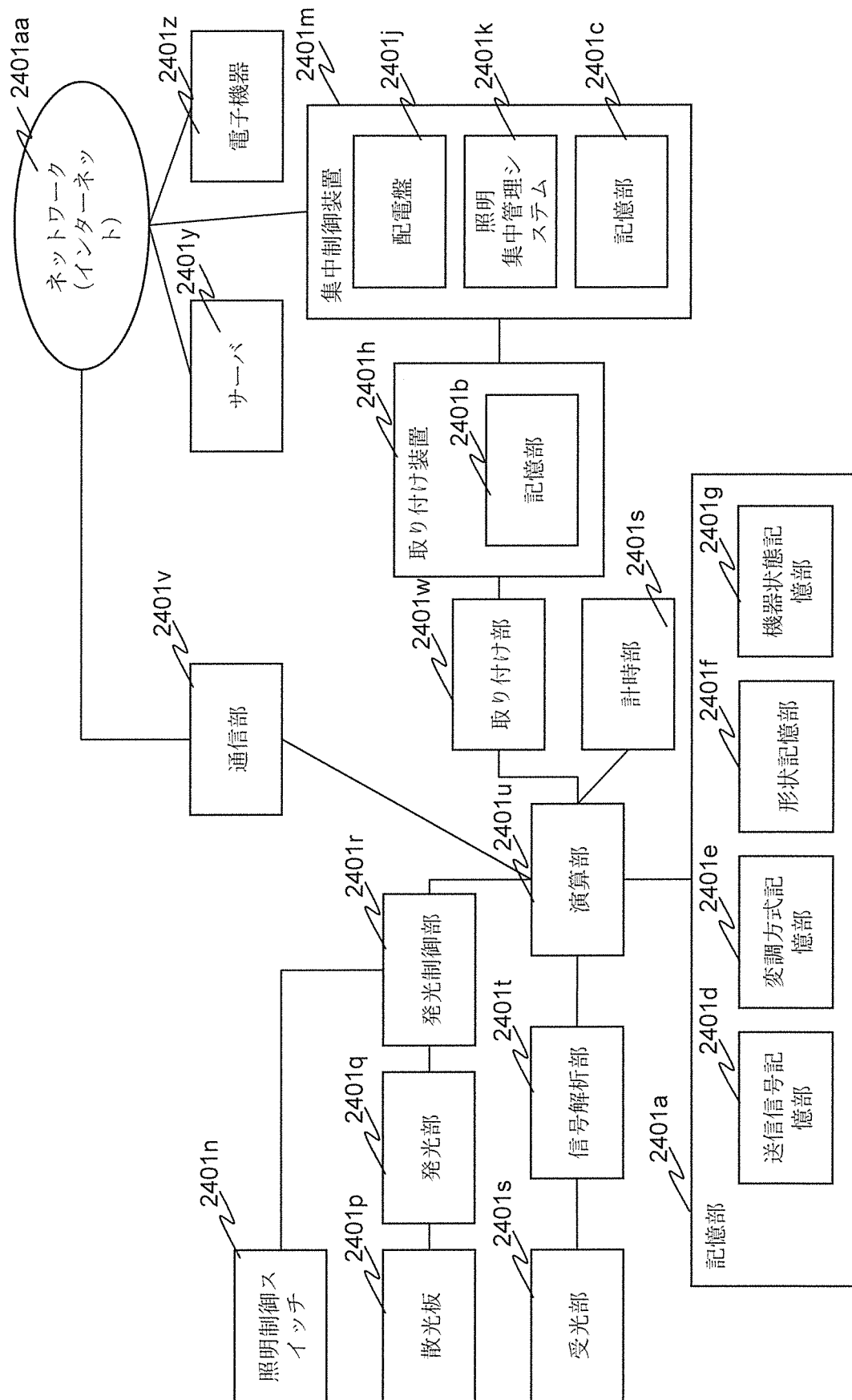
[図48]



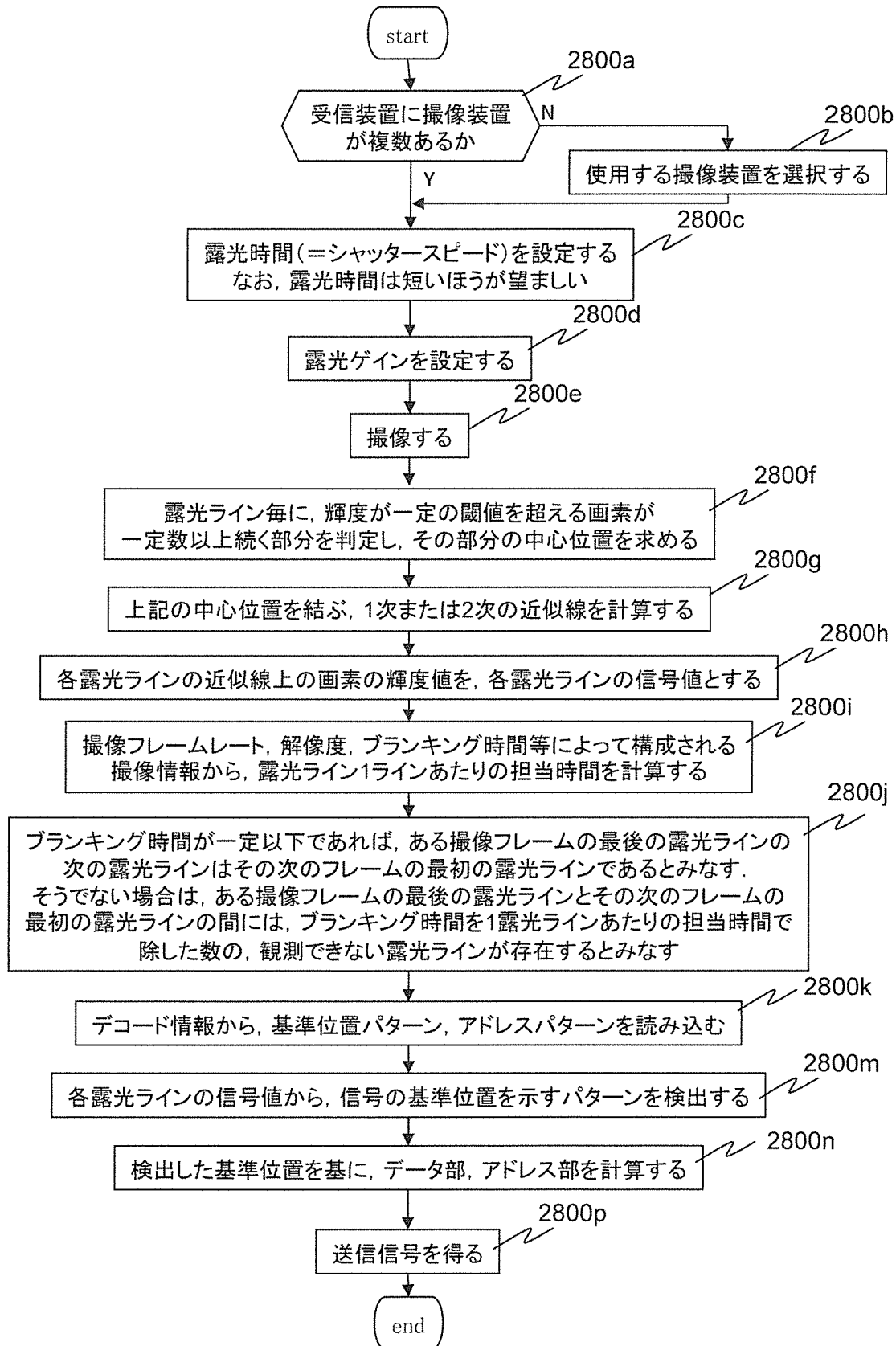
[図49]



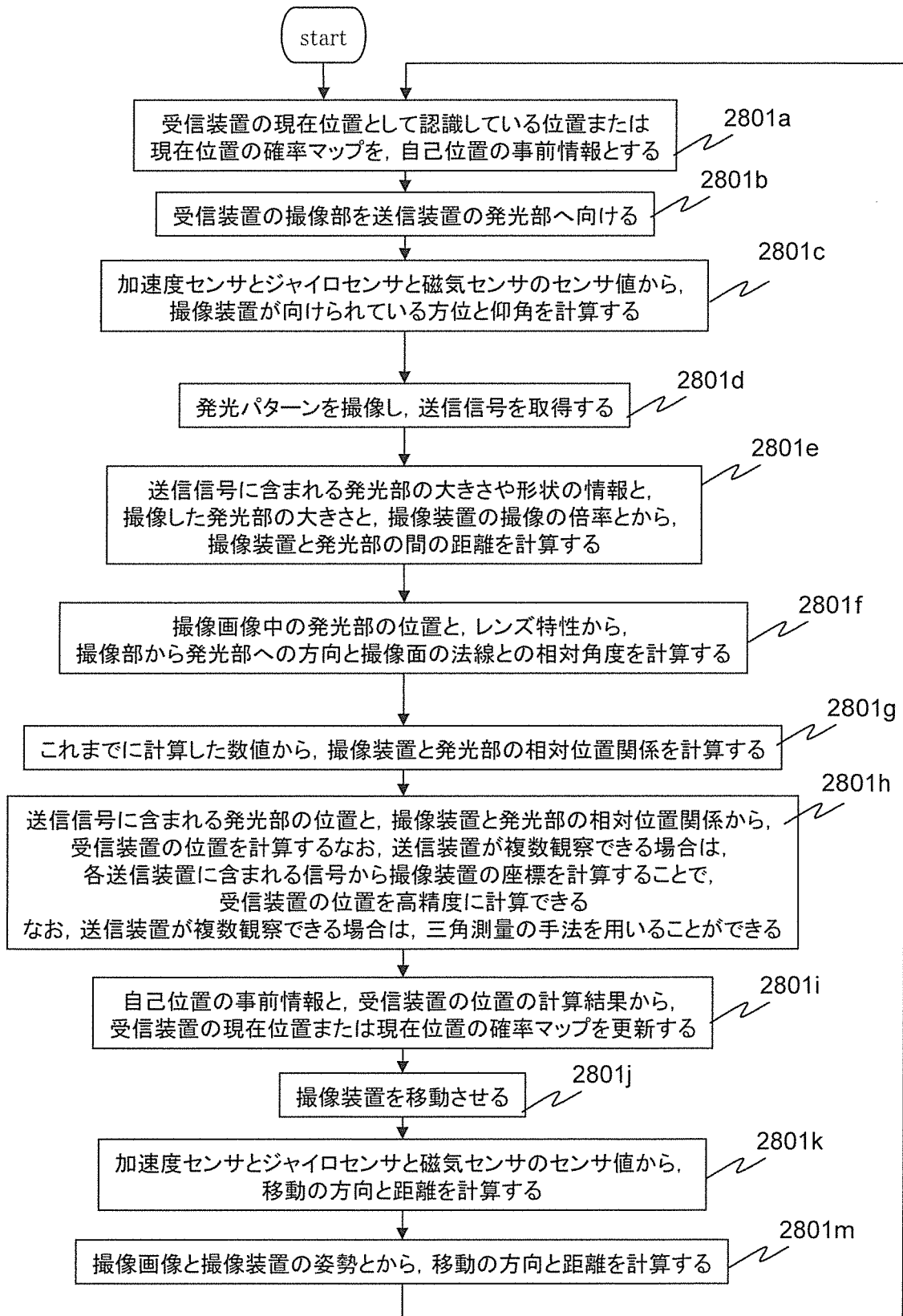
[図50]



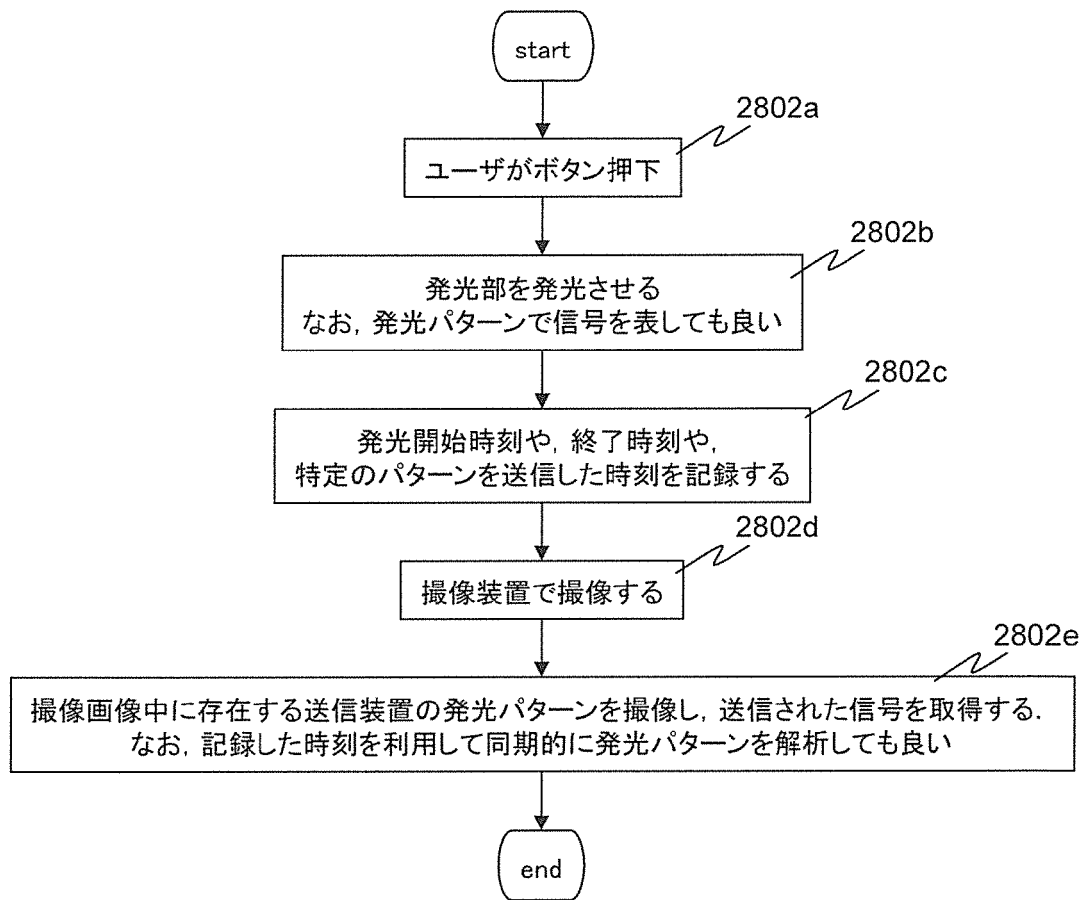
[図51]



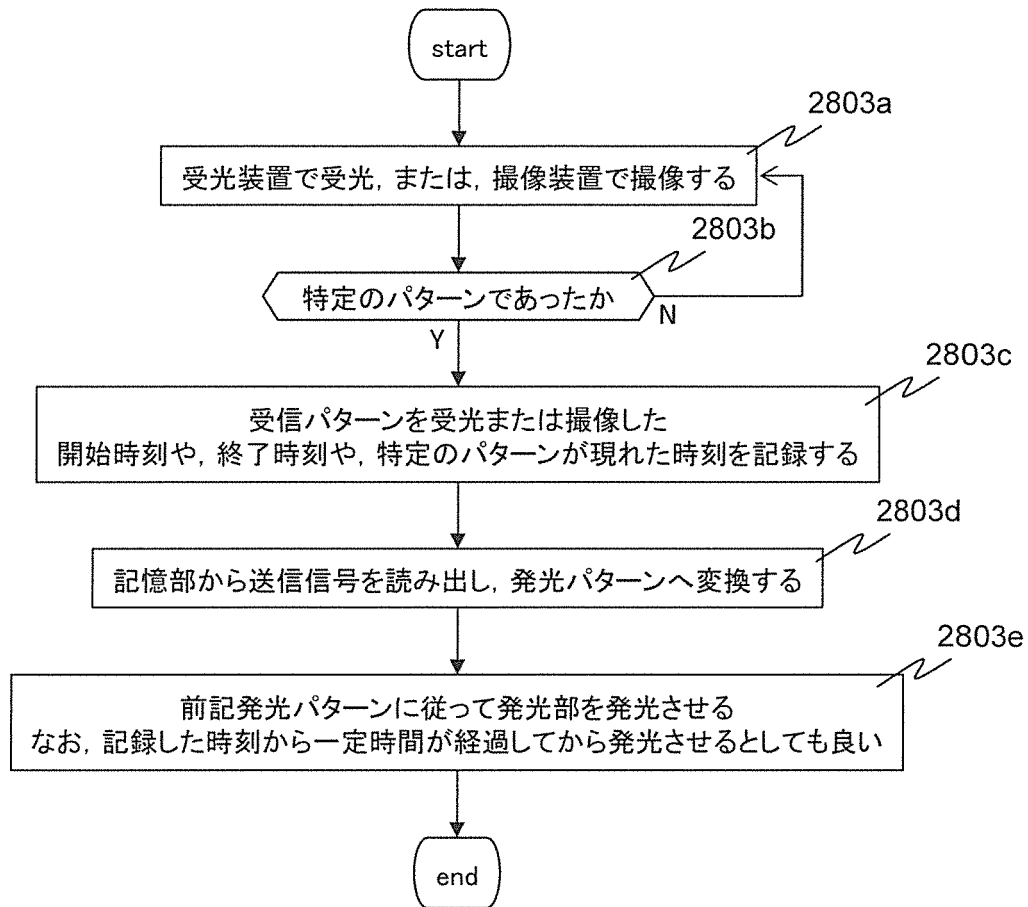
[図52]



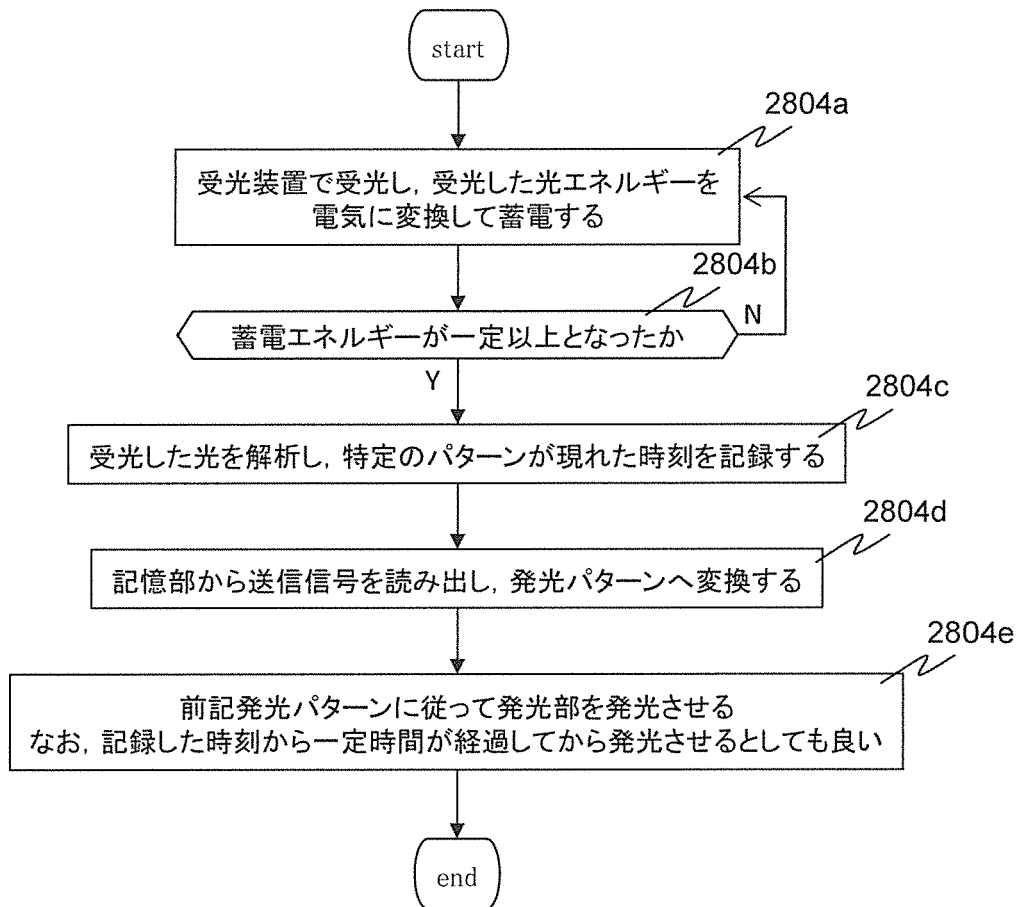
[図53]



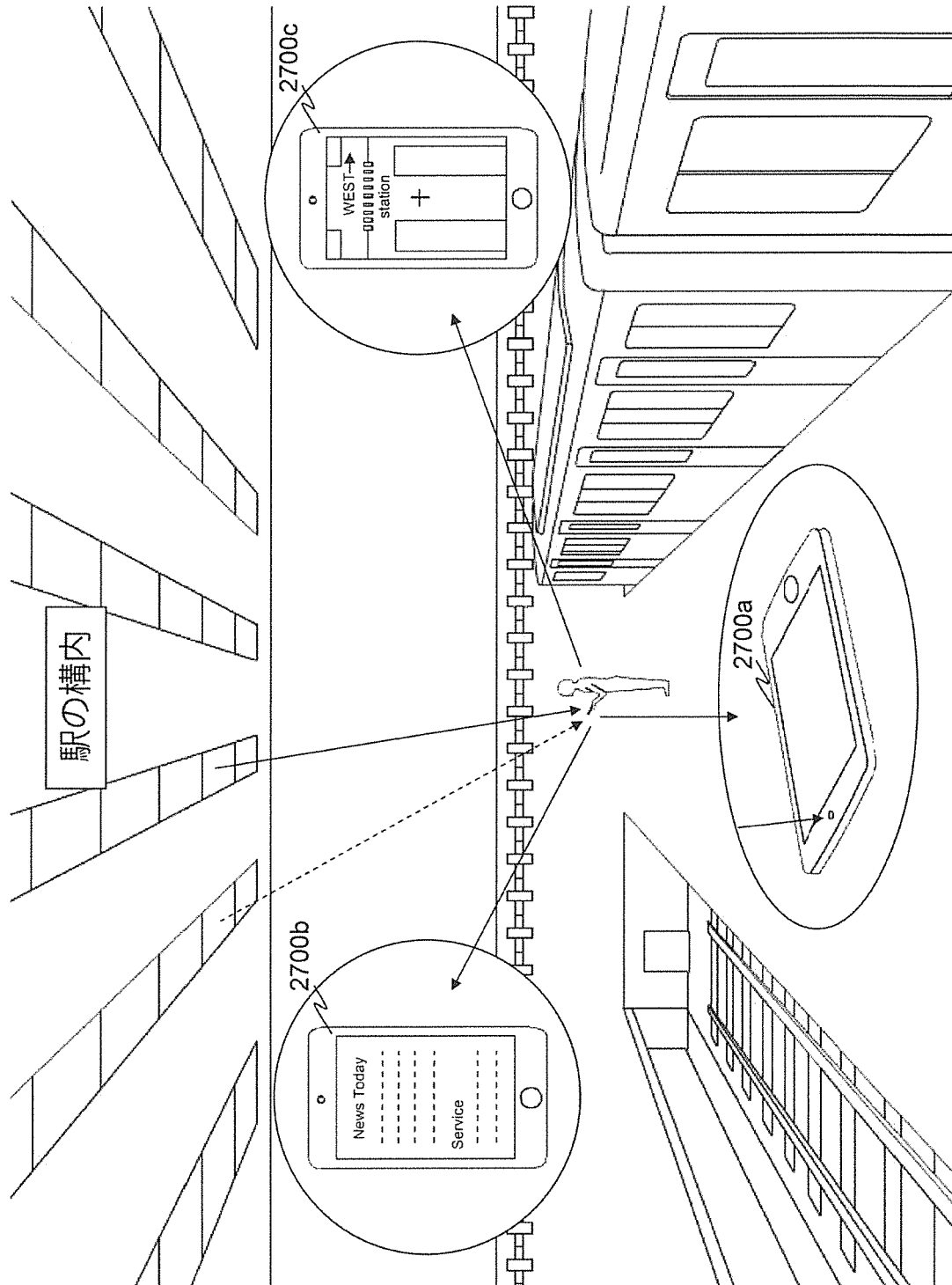
[図54]



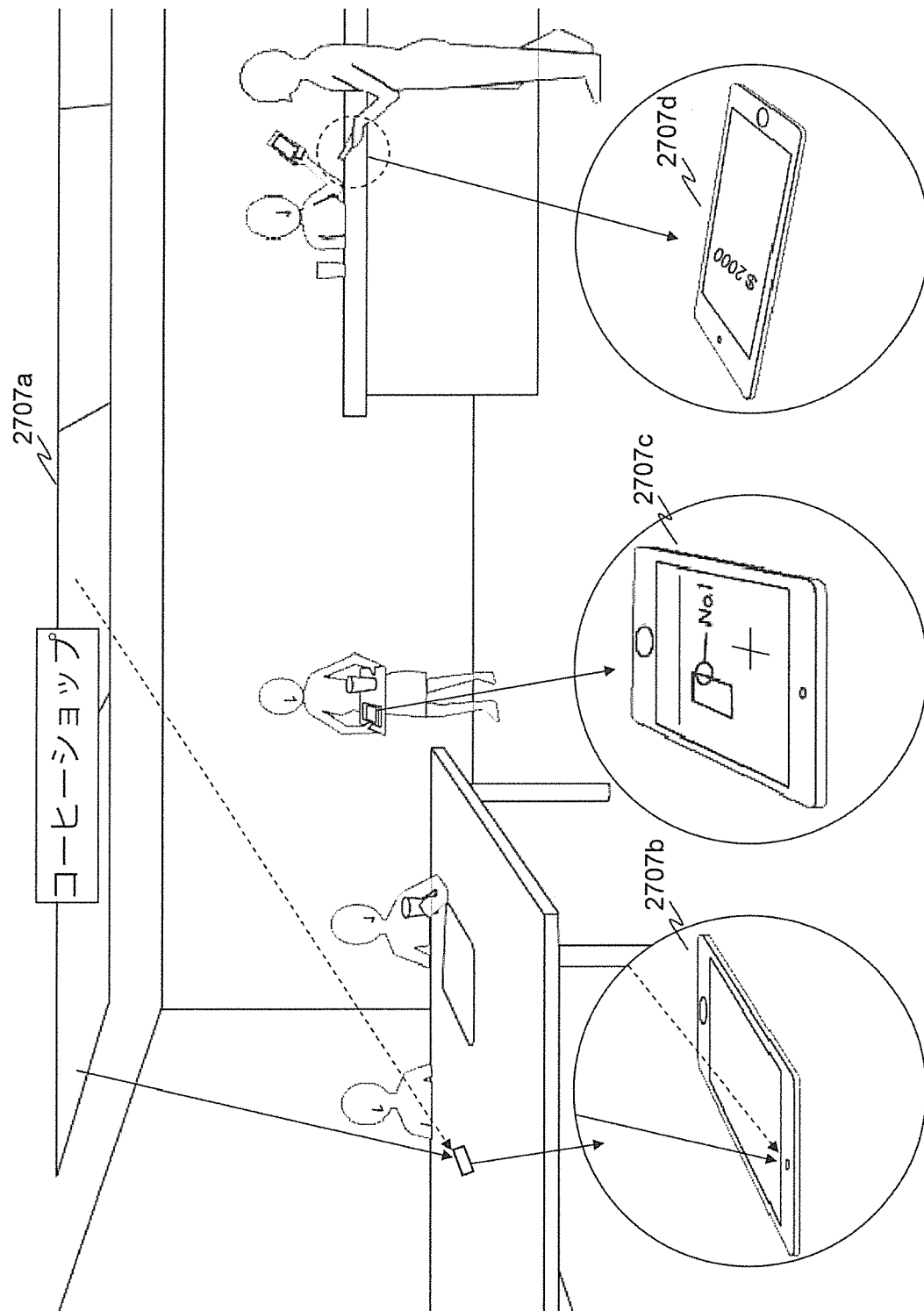
[図55]



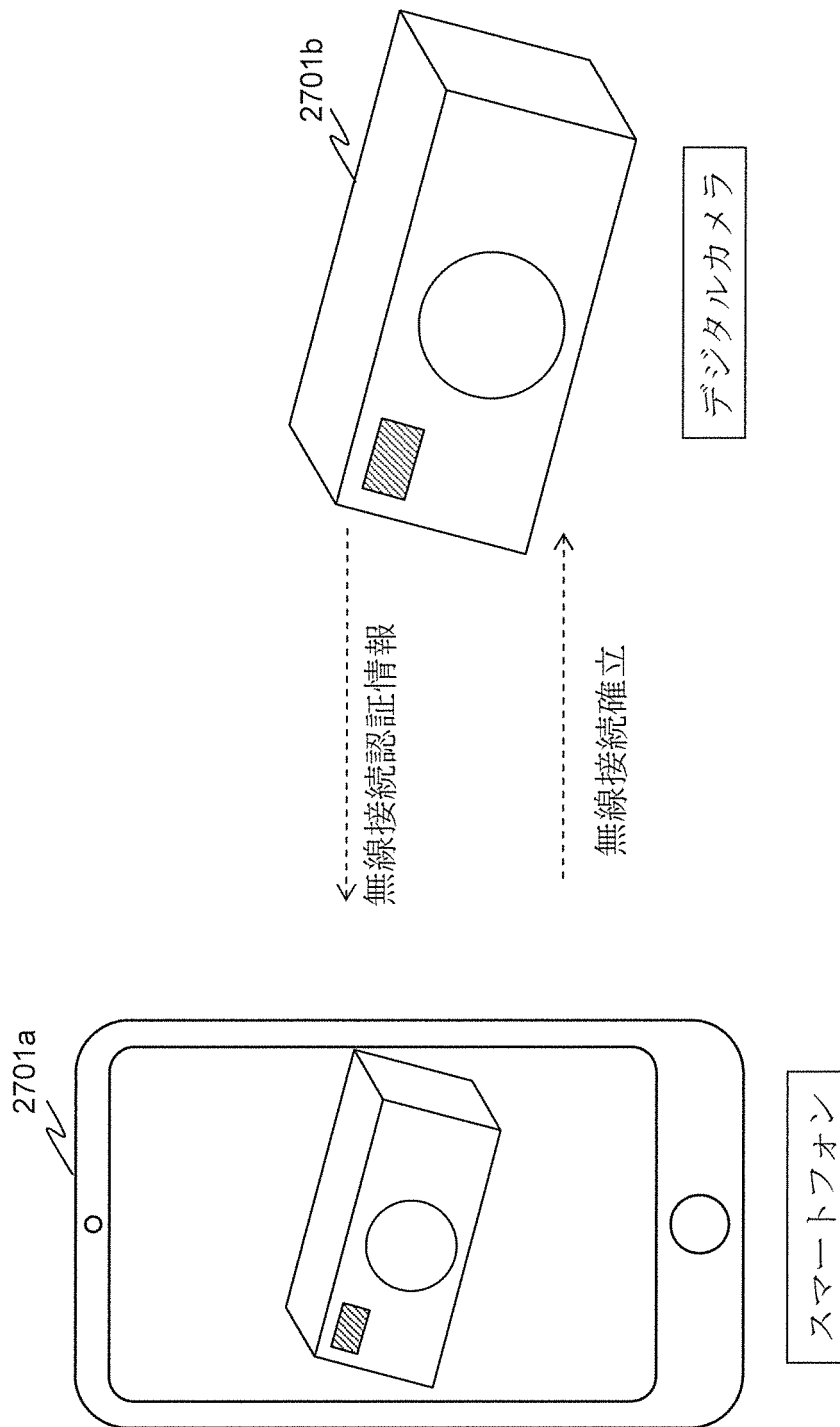
[図56]



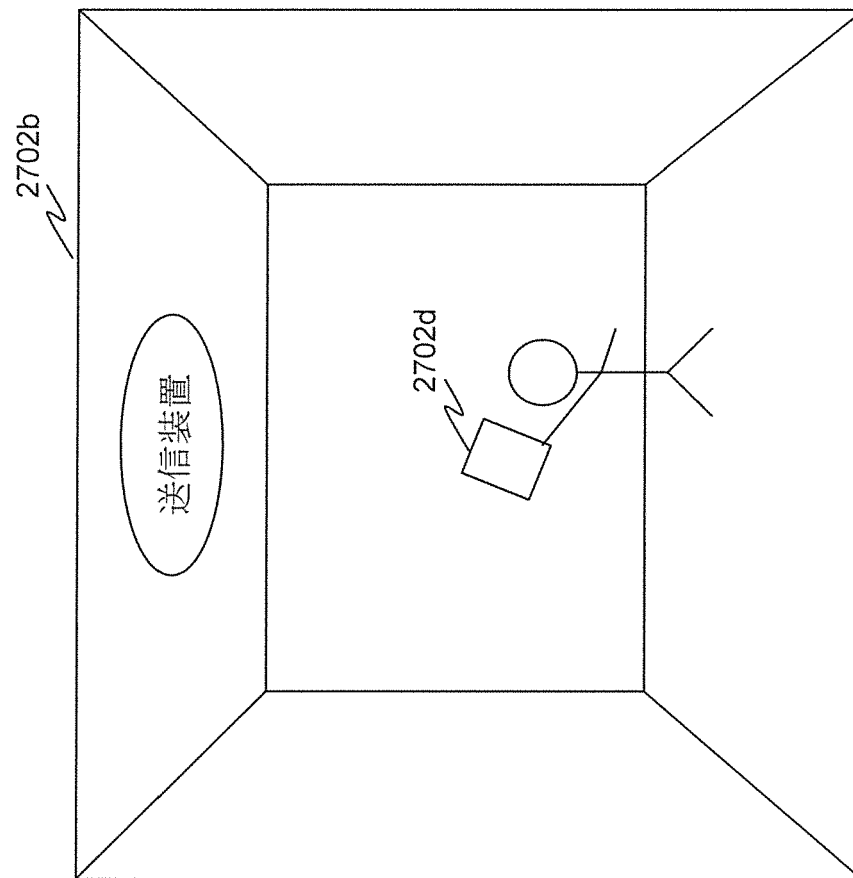
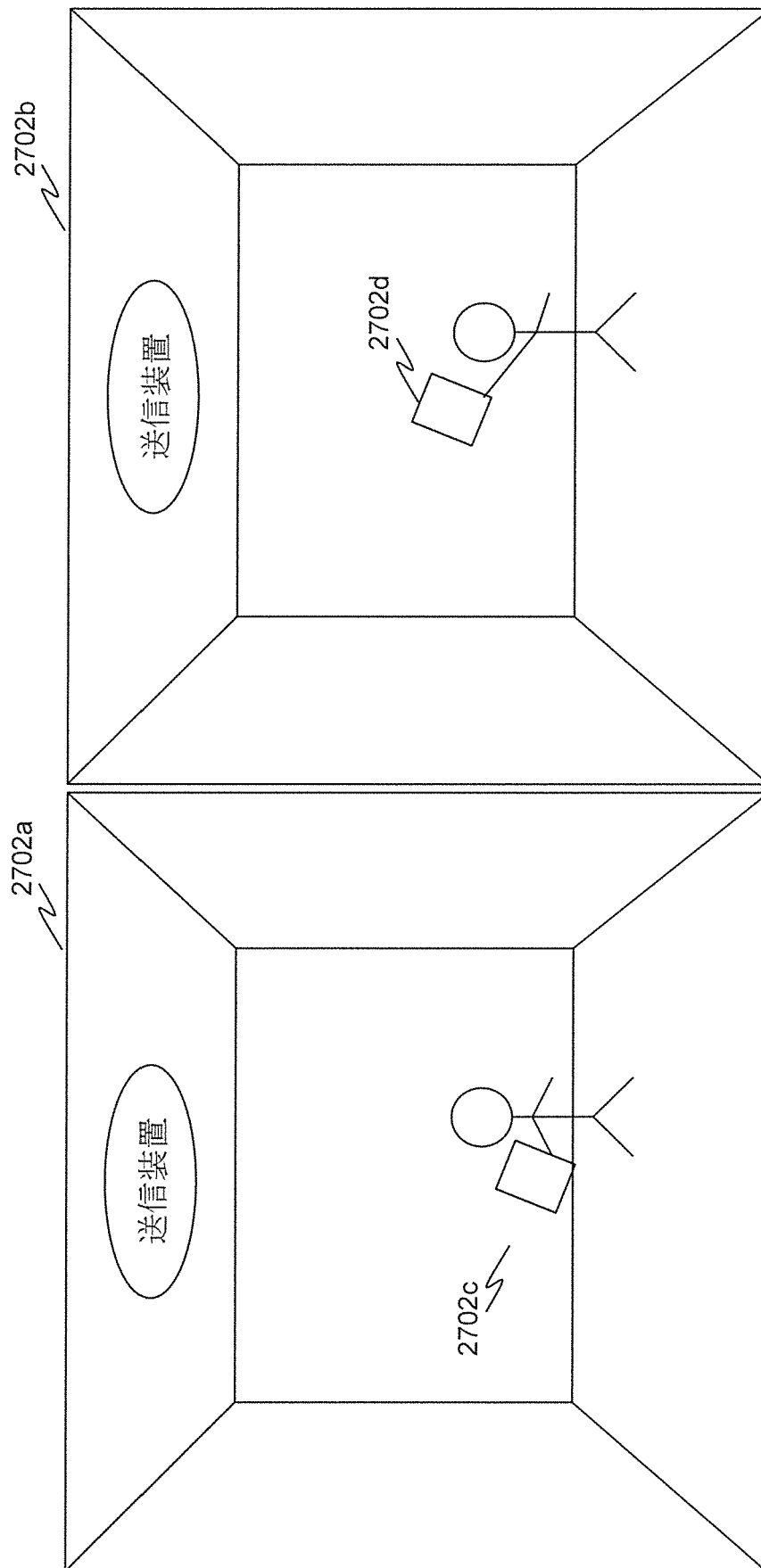
[図58]



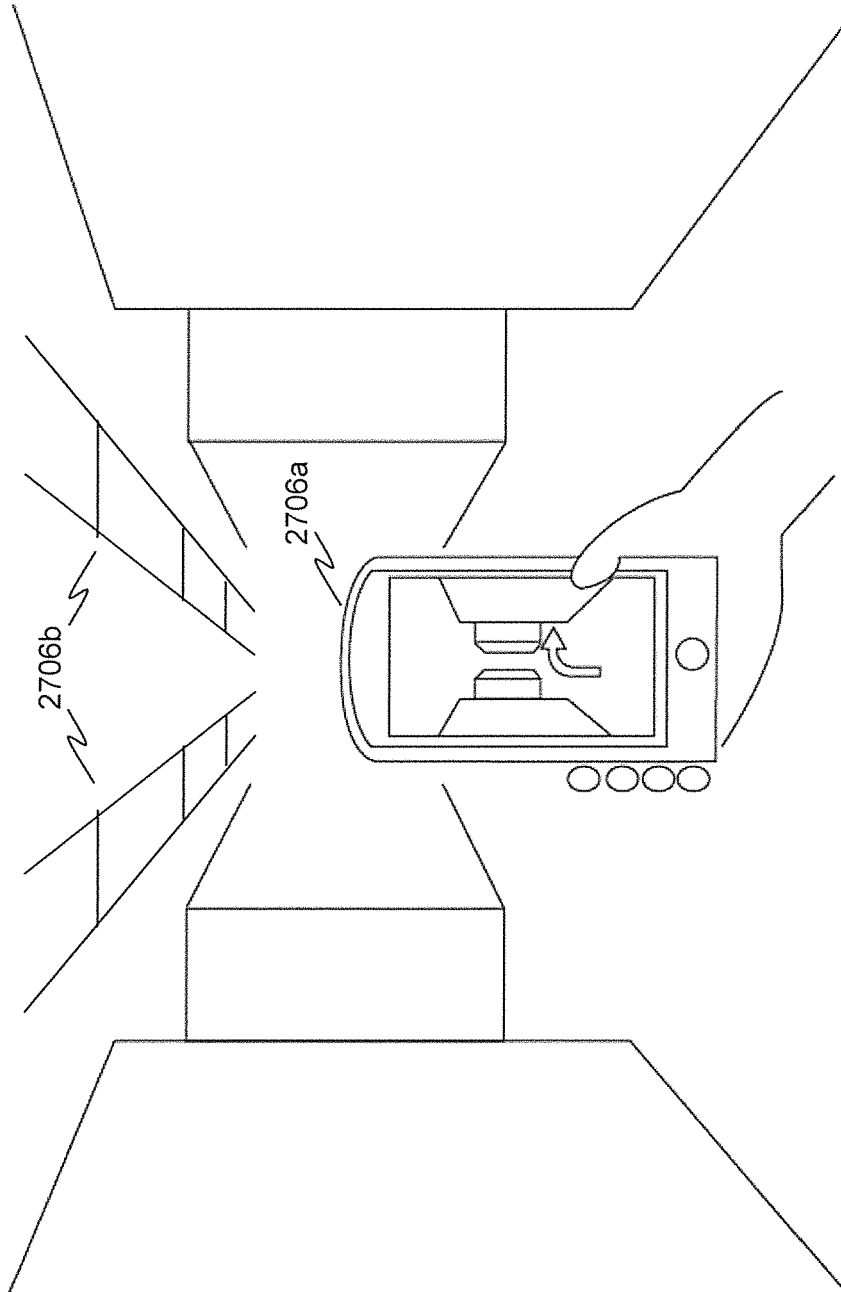
[図59]



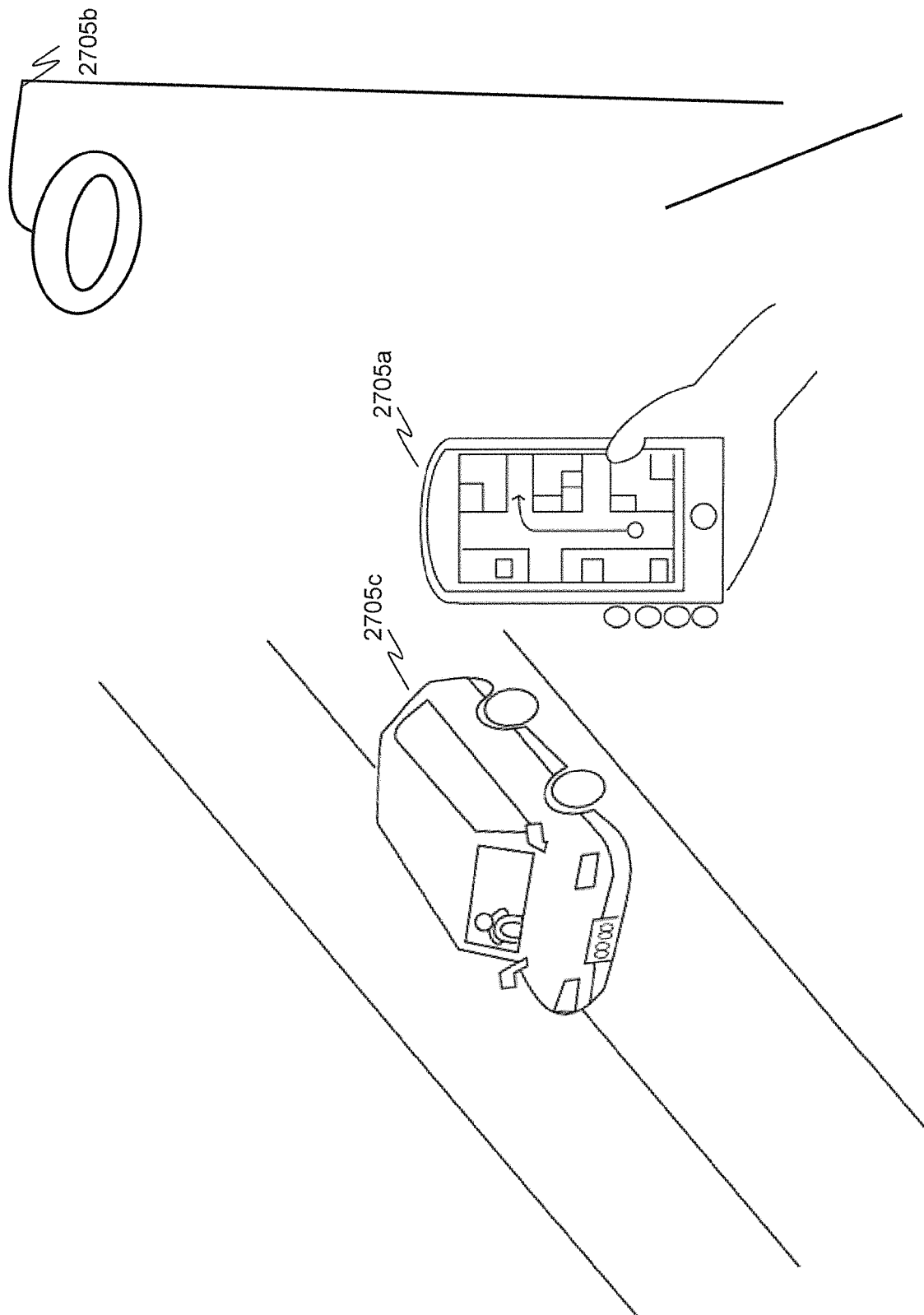
[図60]



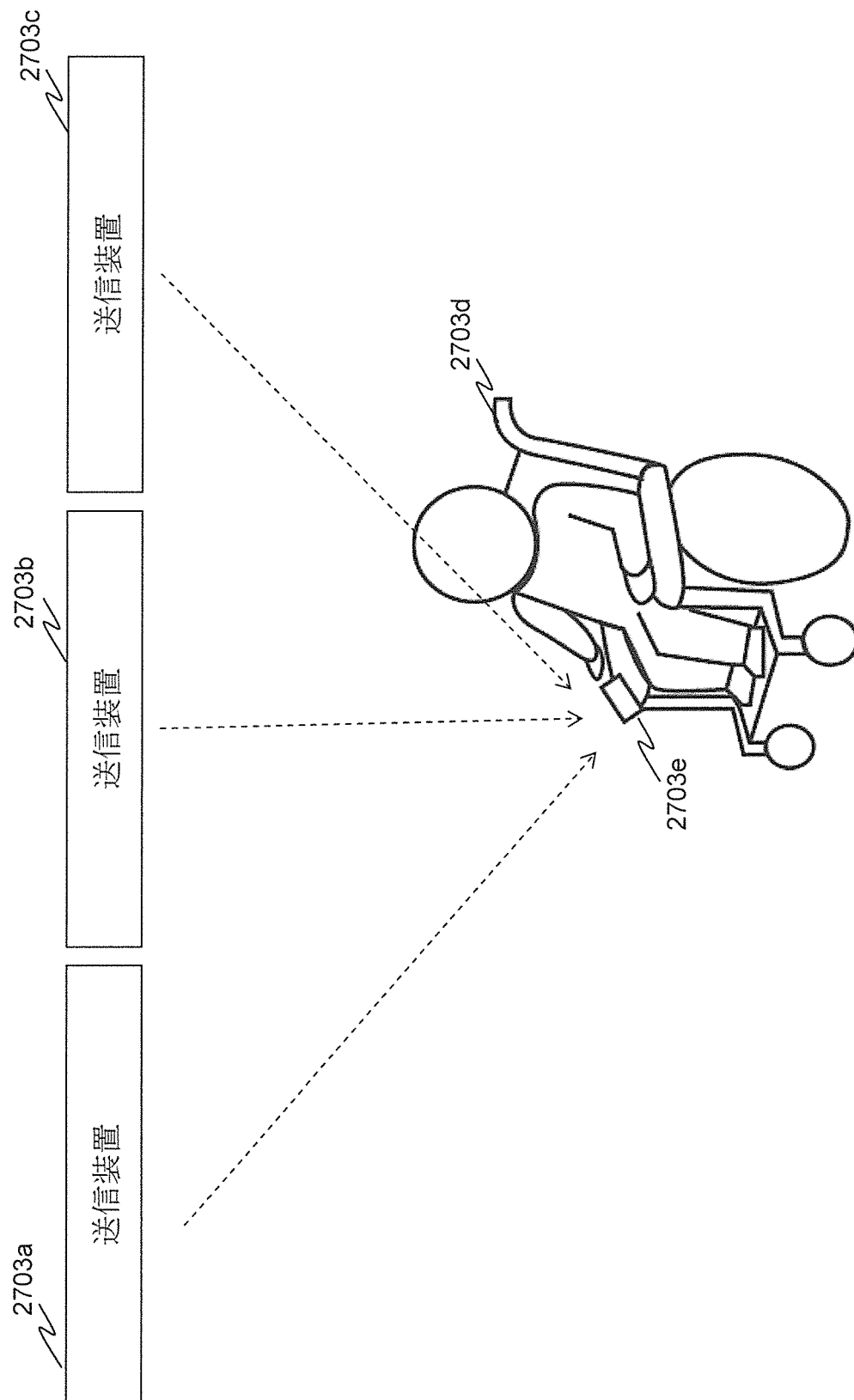
[図61]



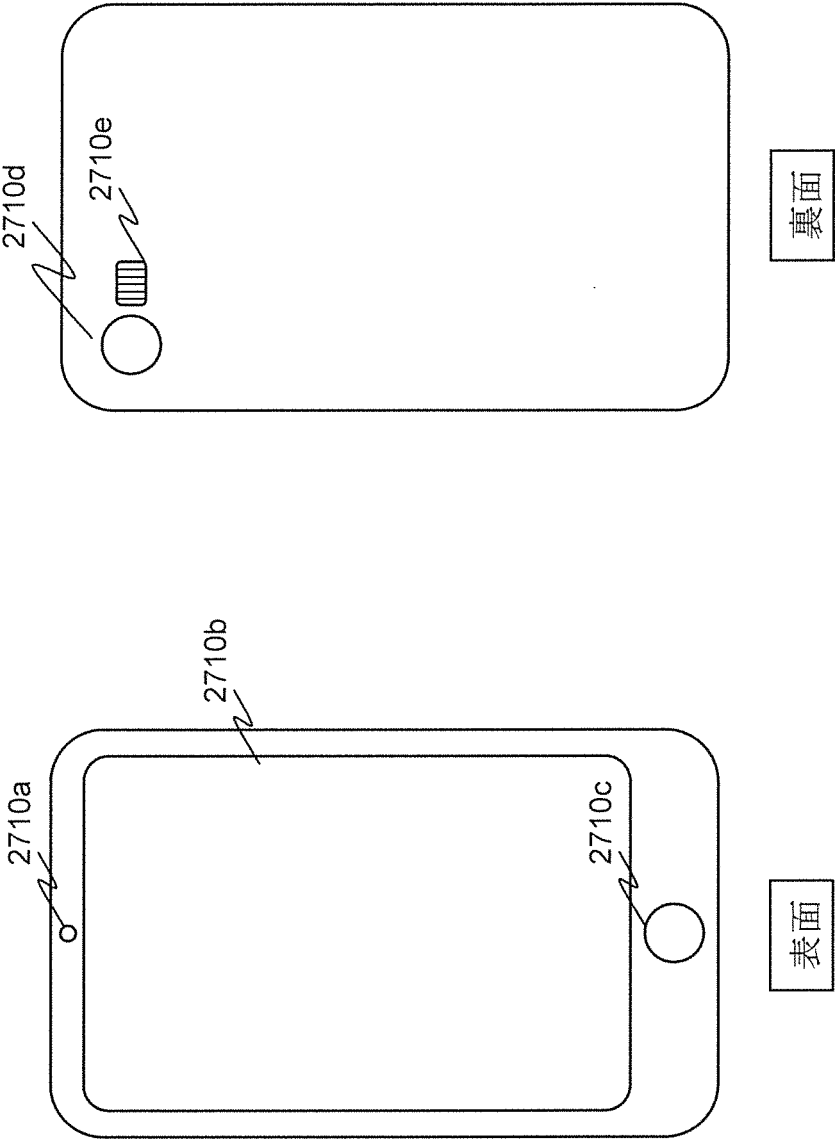
[図62]



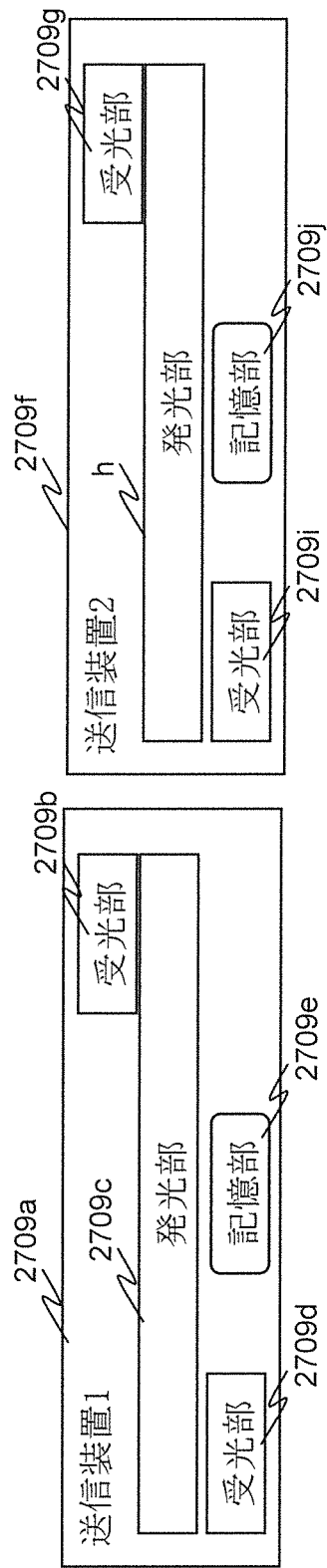
[図63]



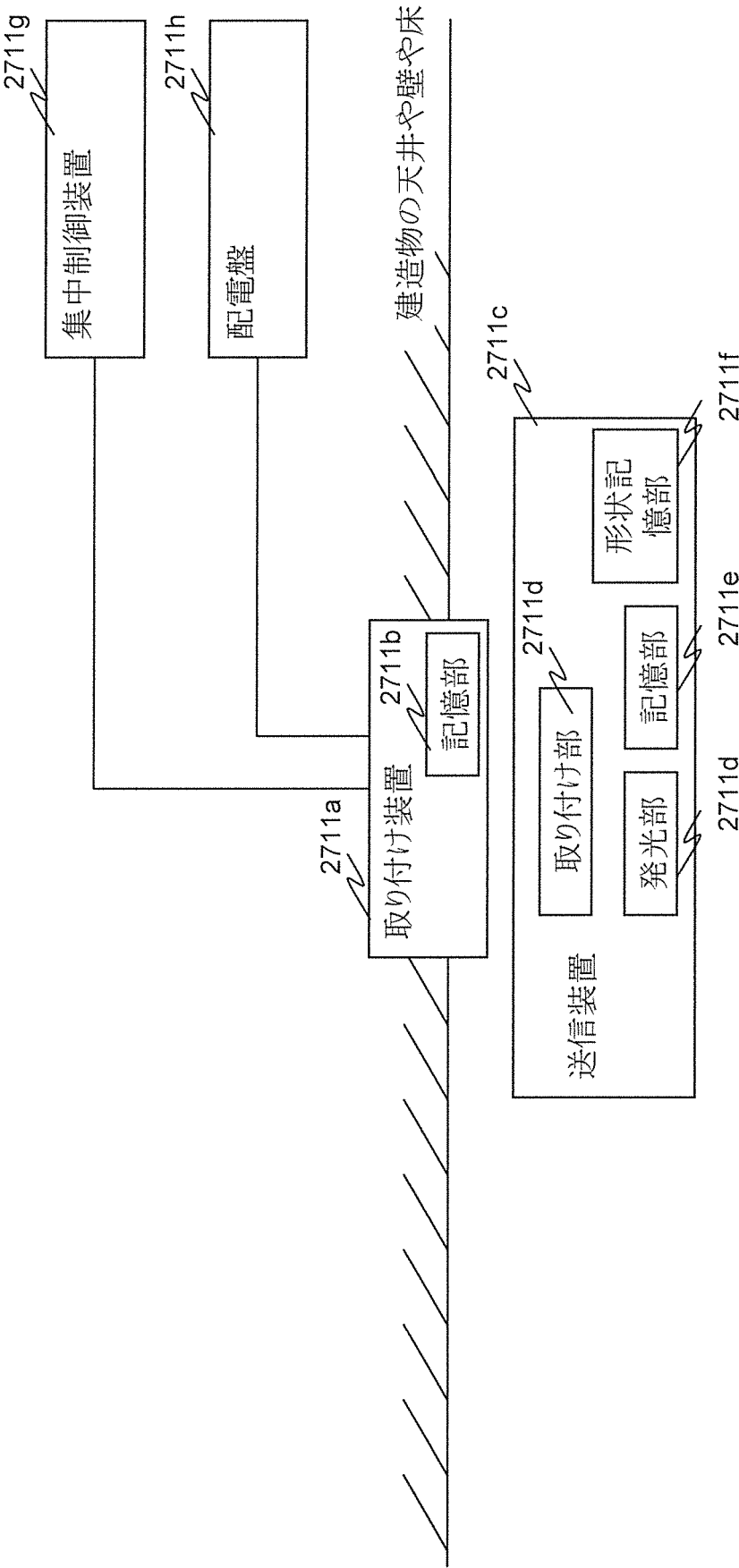
[図64]



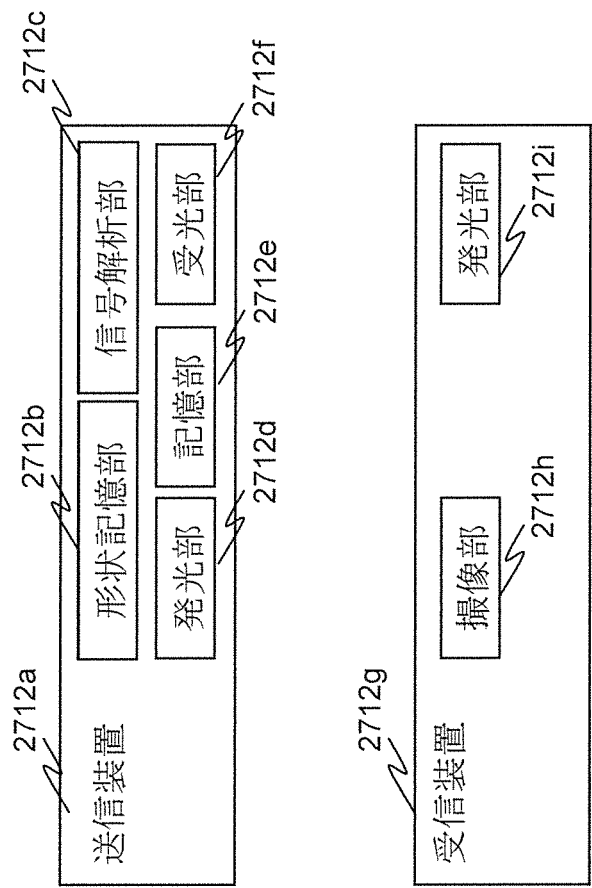
[図65]



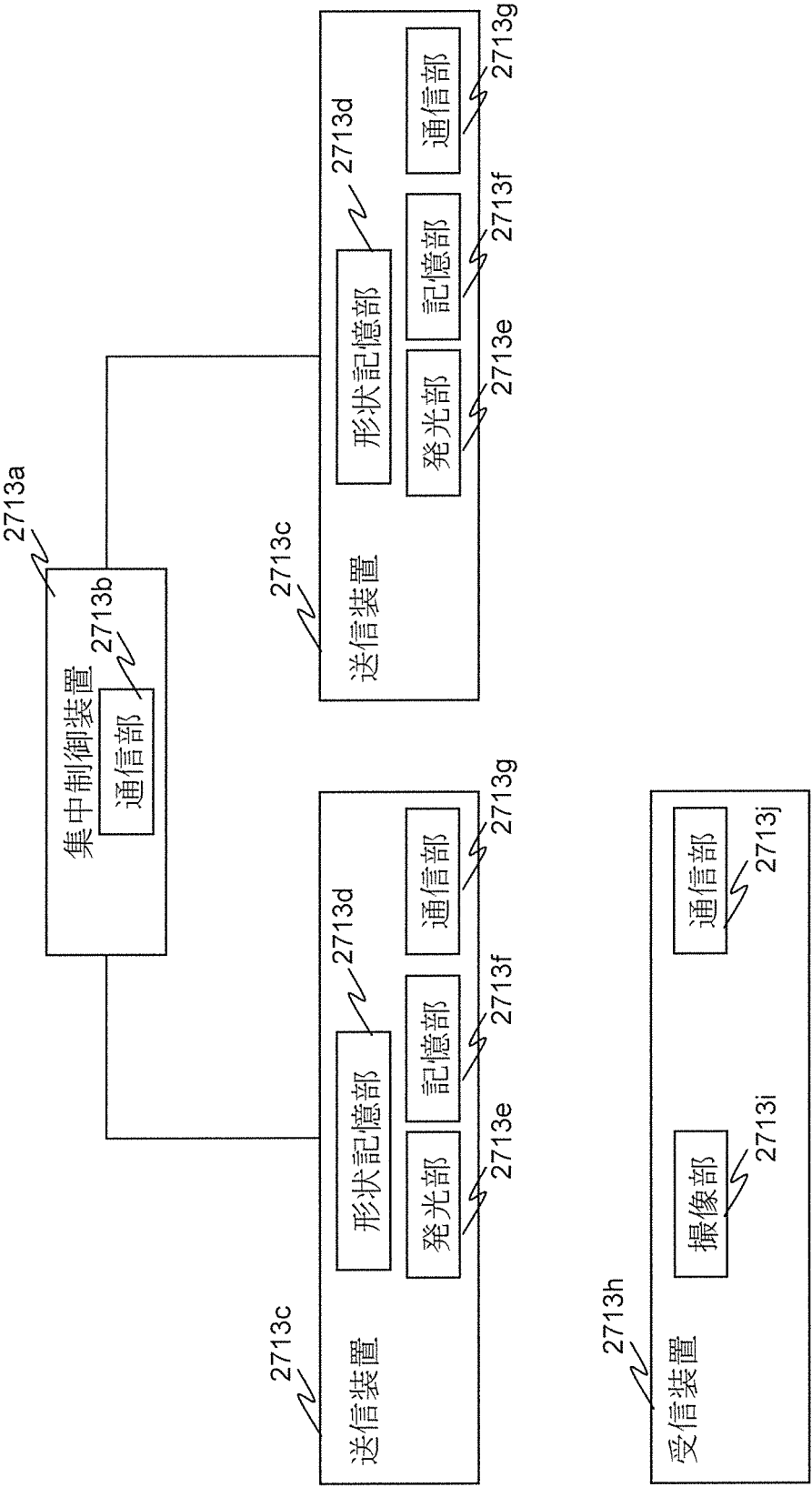
[図66]



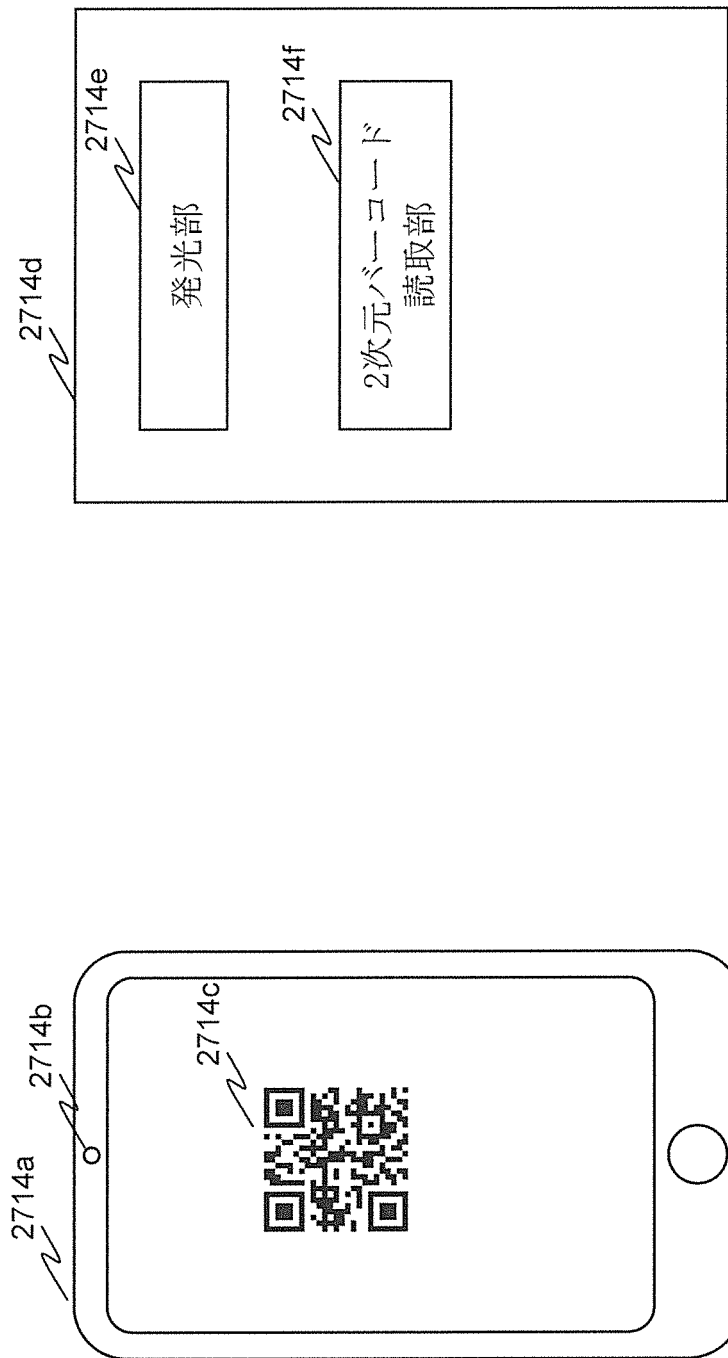
[図67]



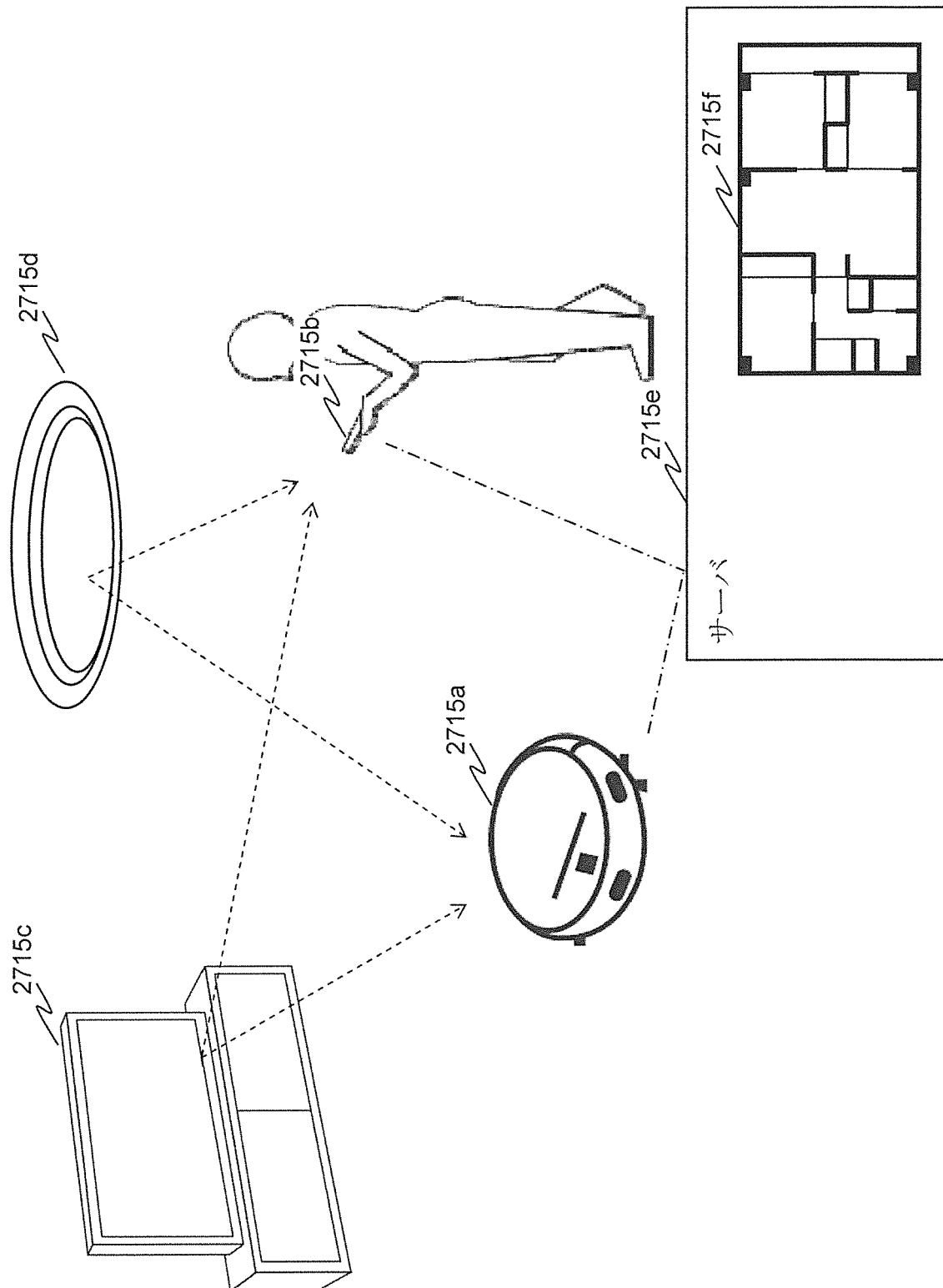
[図68]



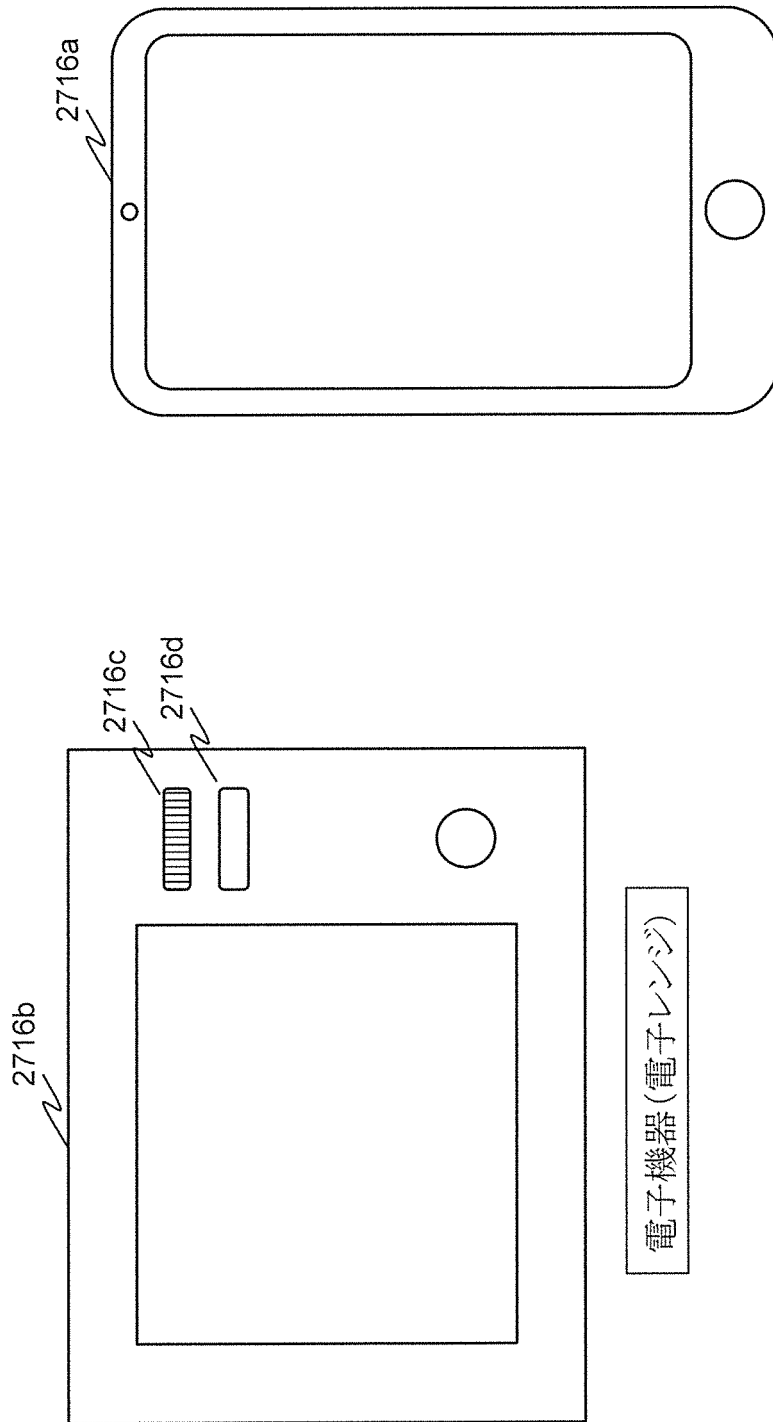
[図69]



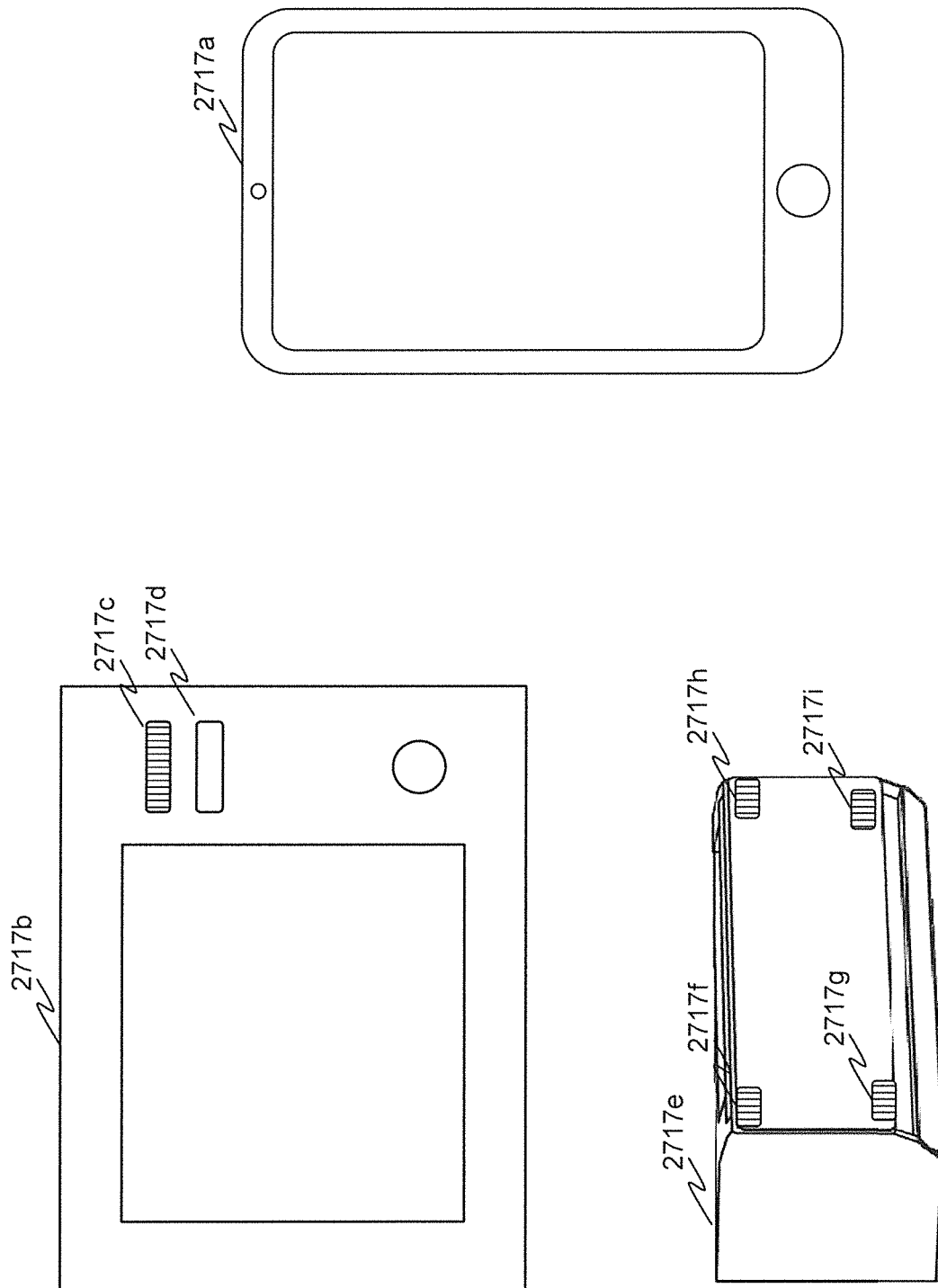
[図70]



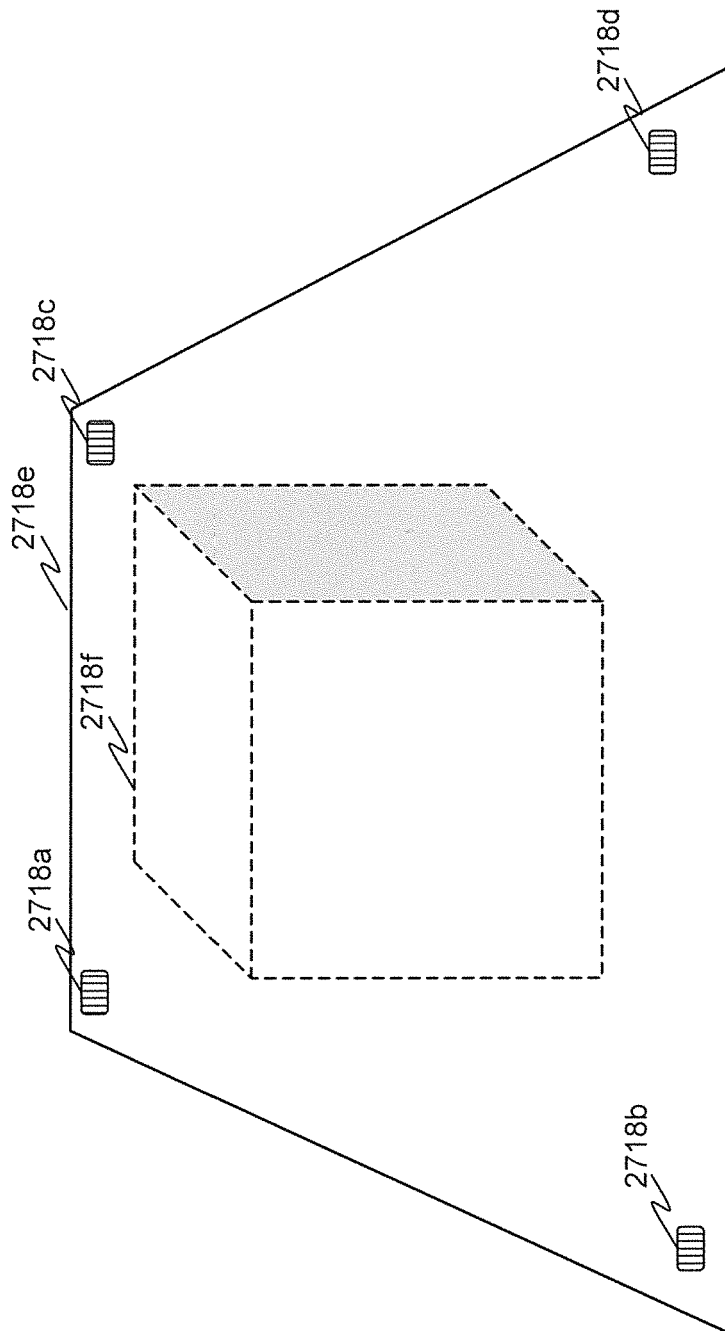
[図71]



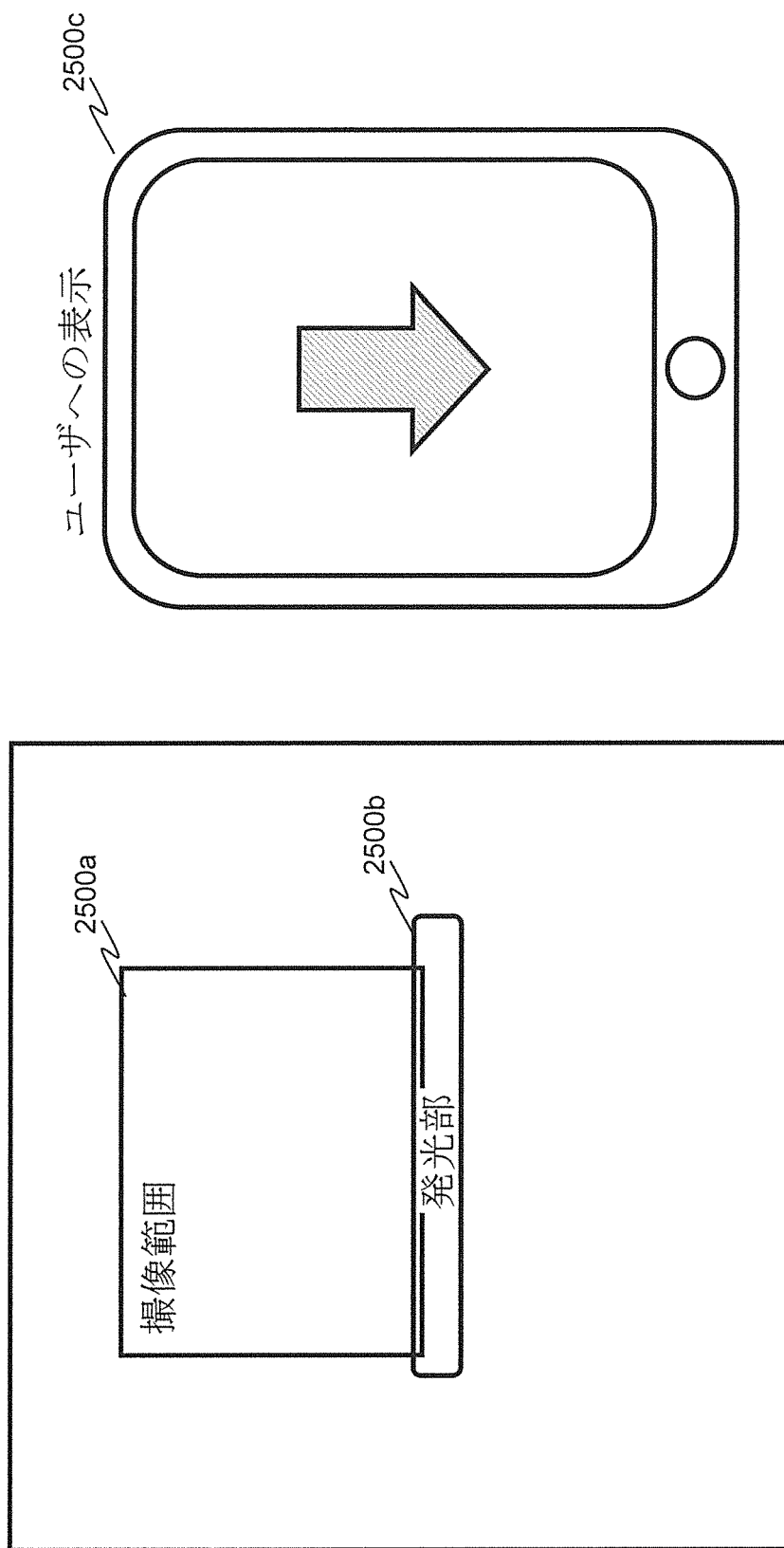
[図72]



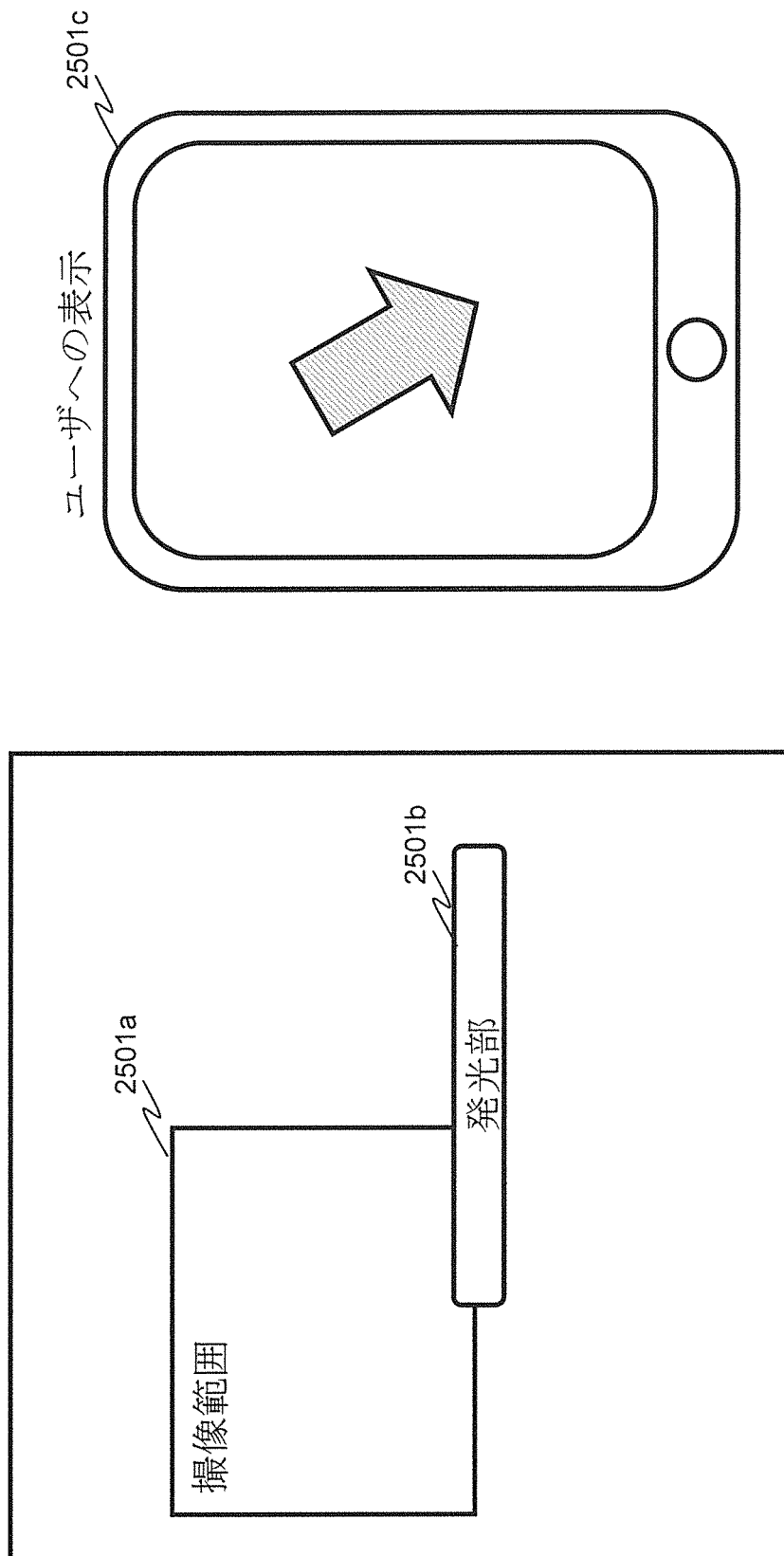
[図73]



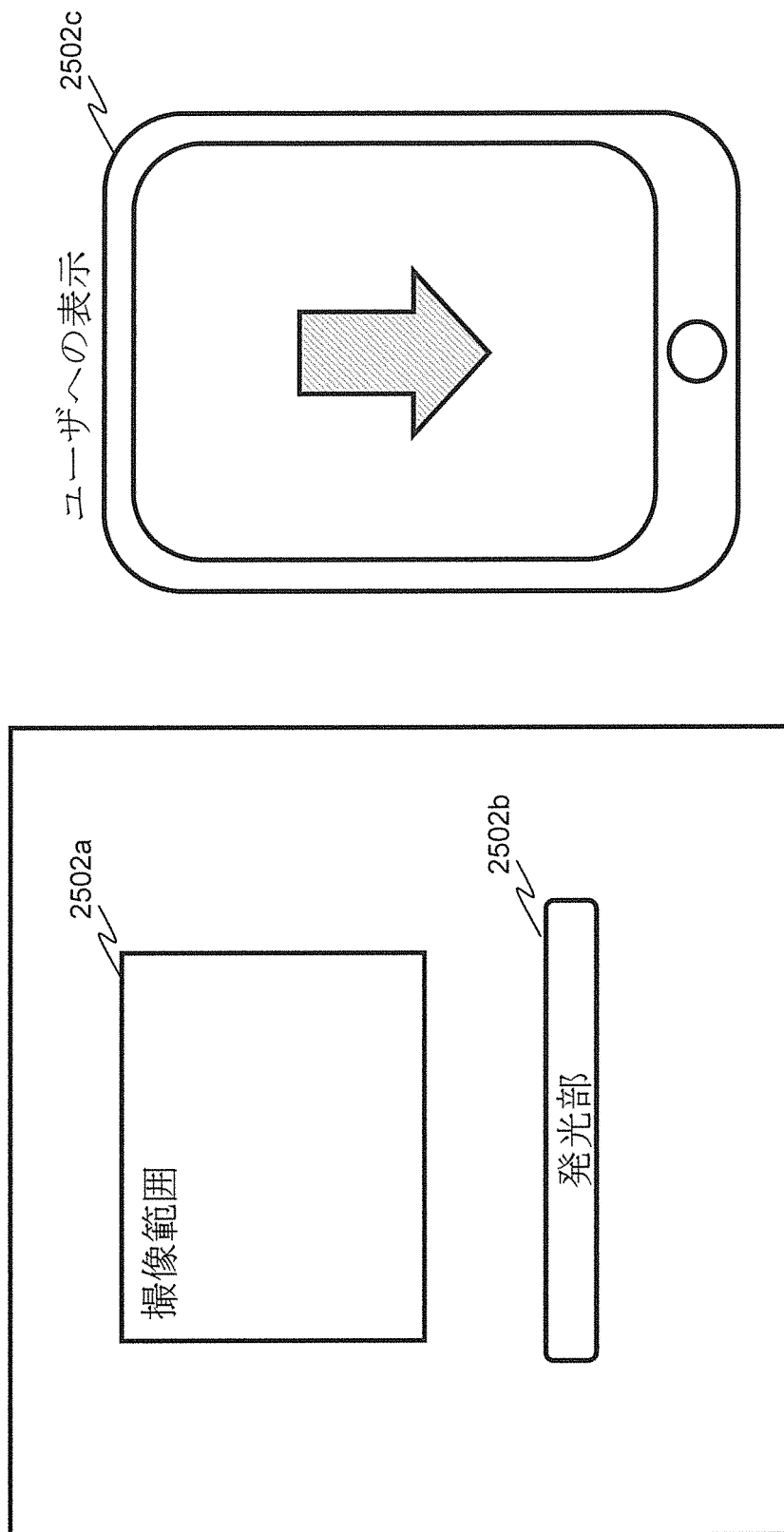
[図74]



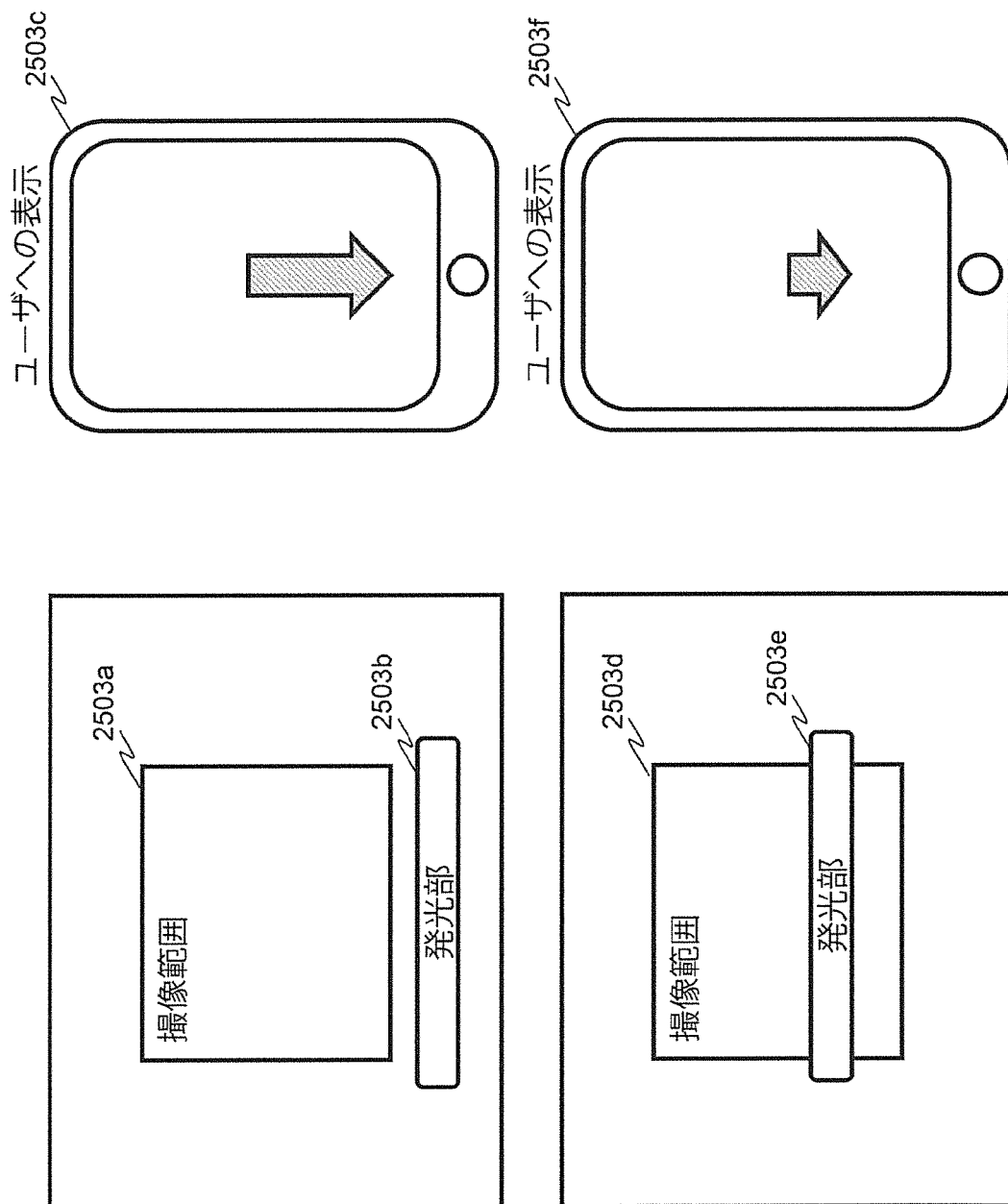
[図75]



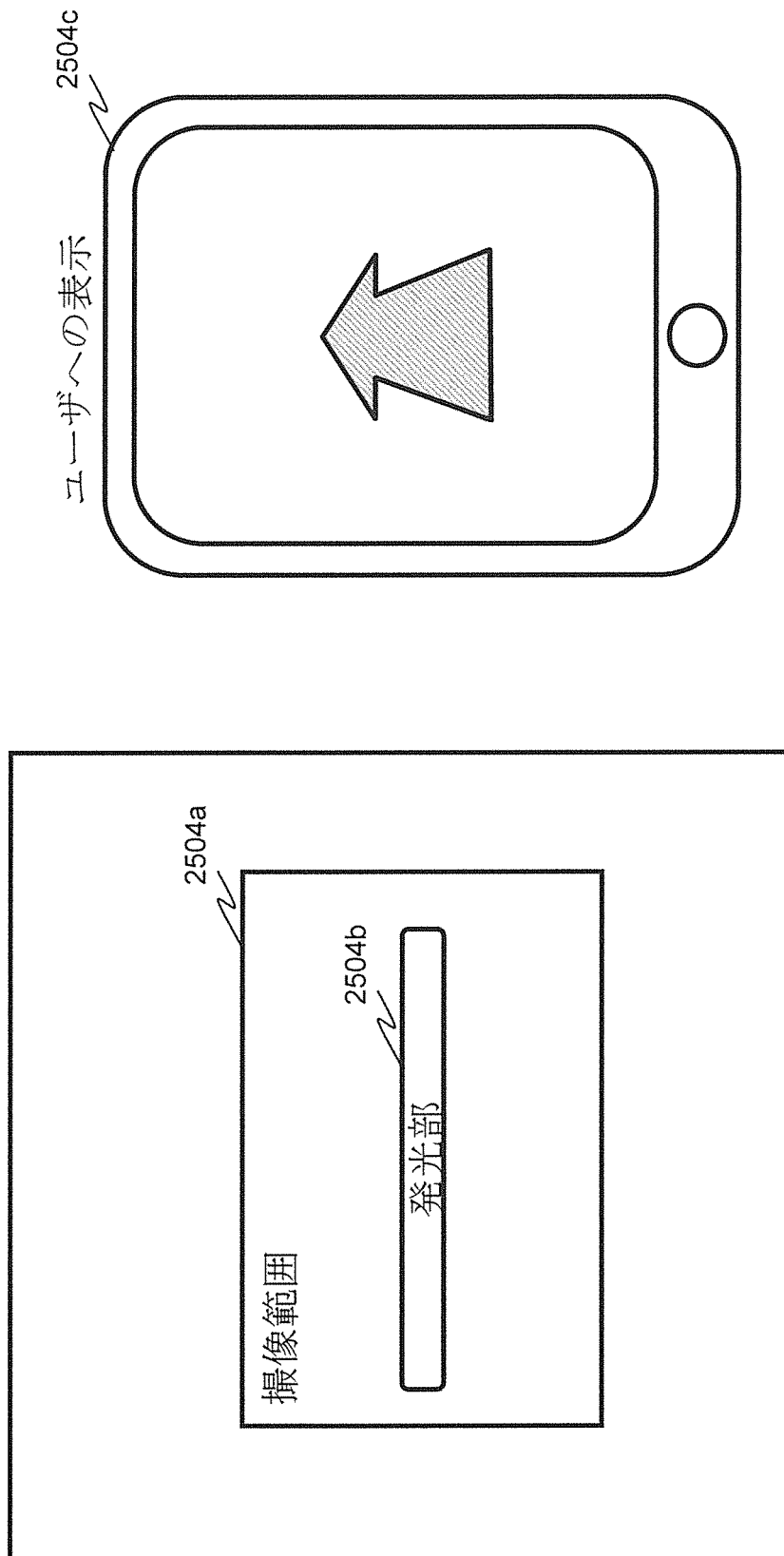
[図76]



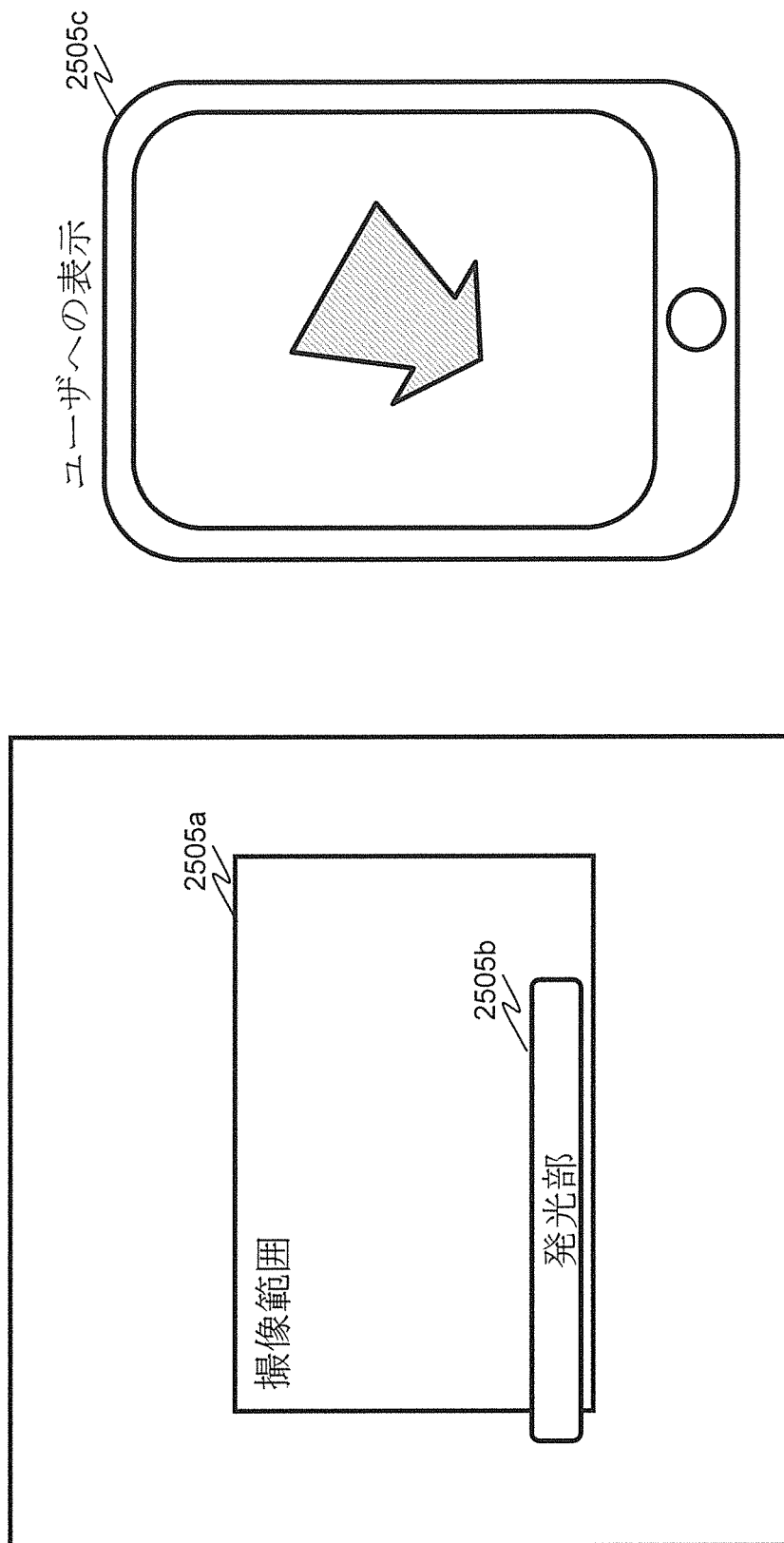
[図77]



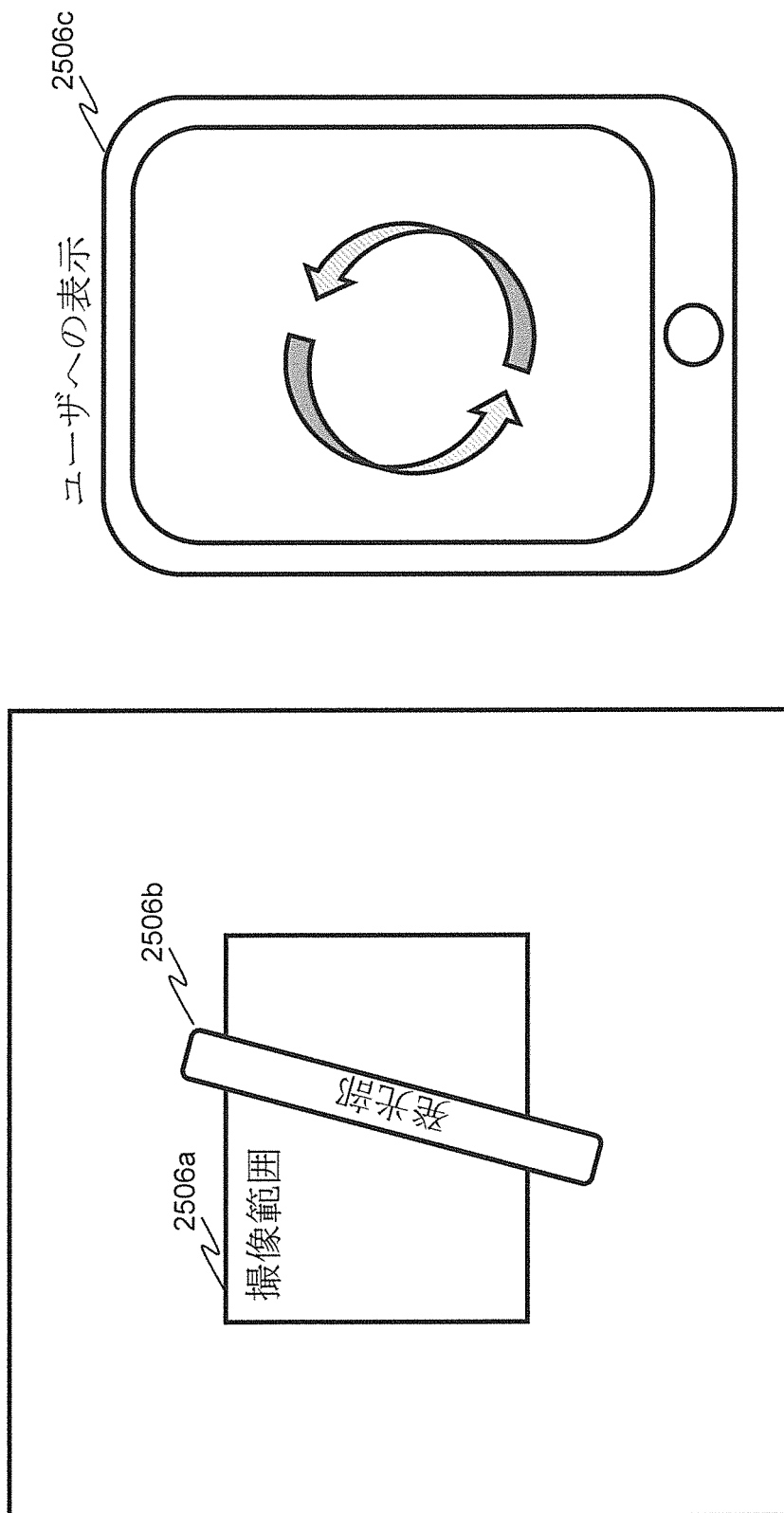
[図78]



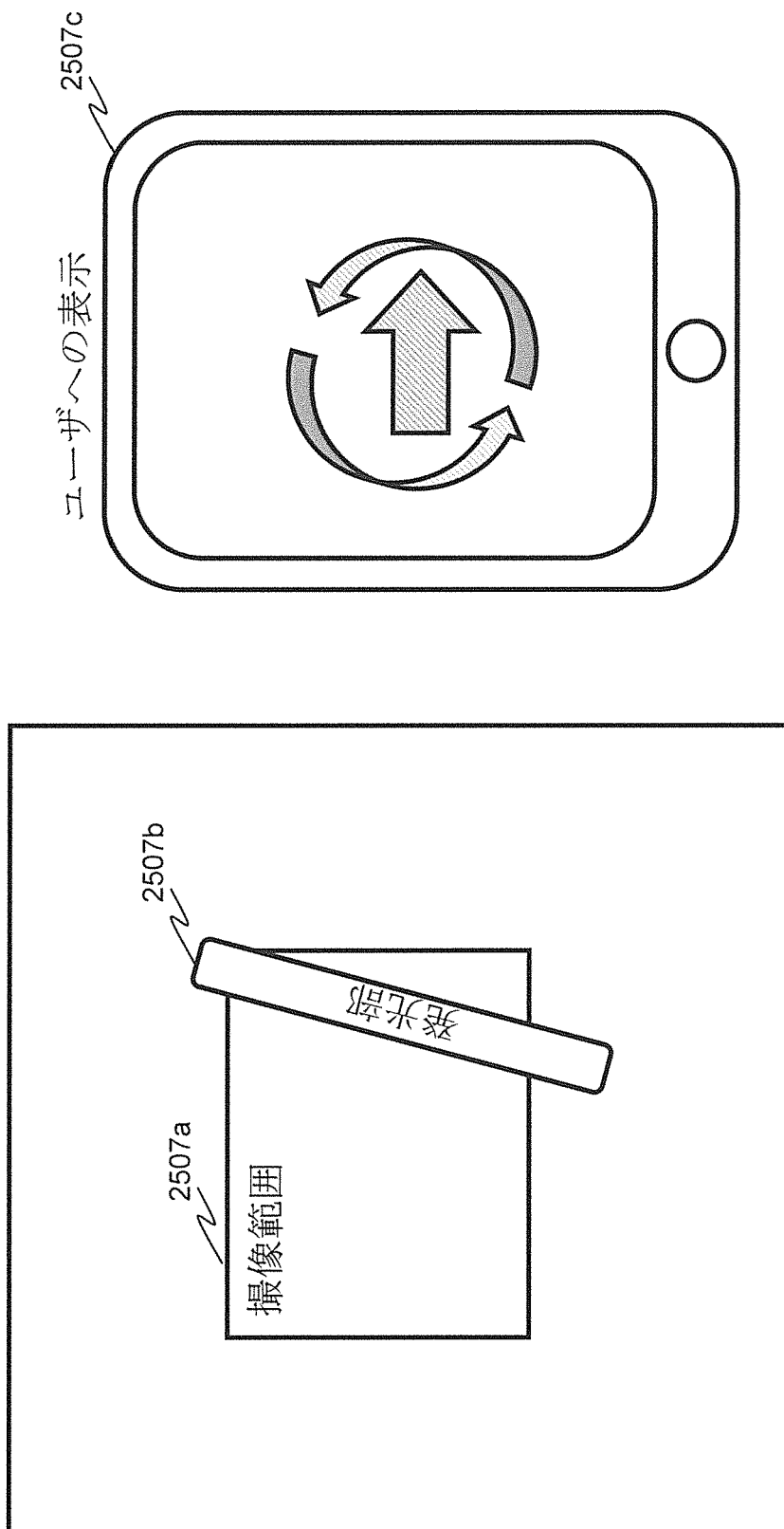
[図79]



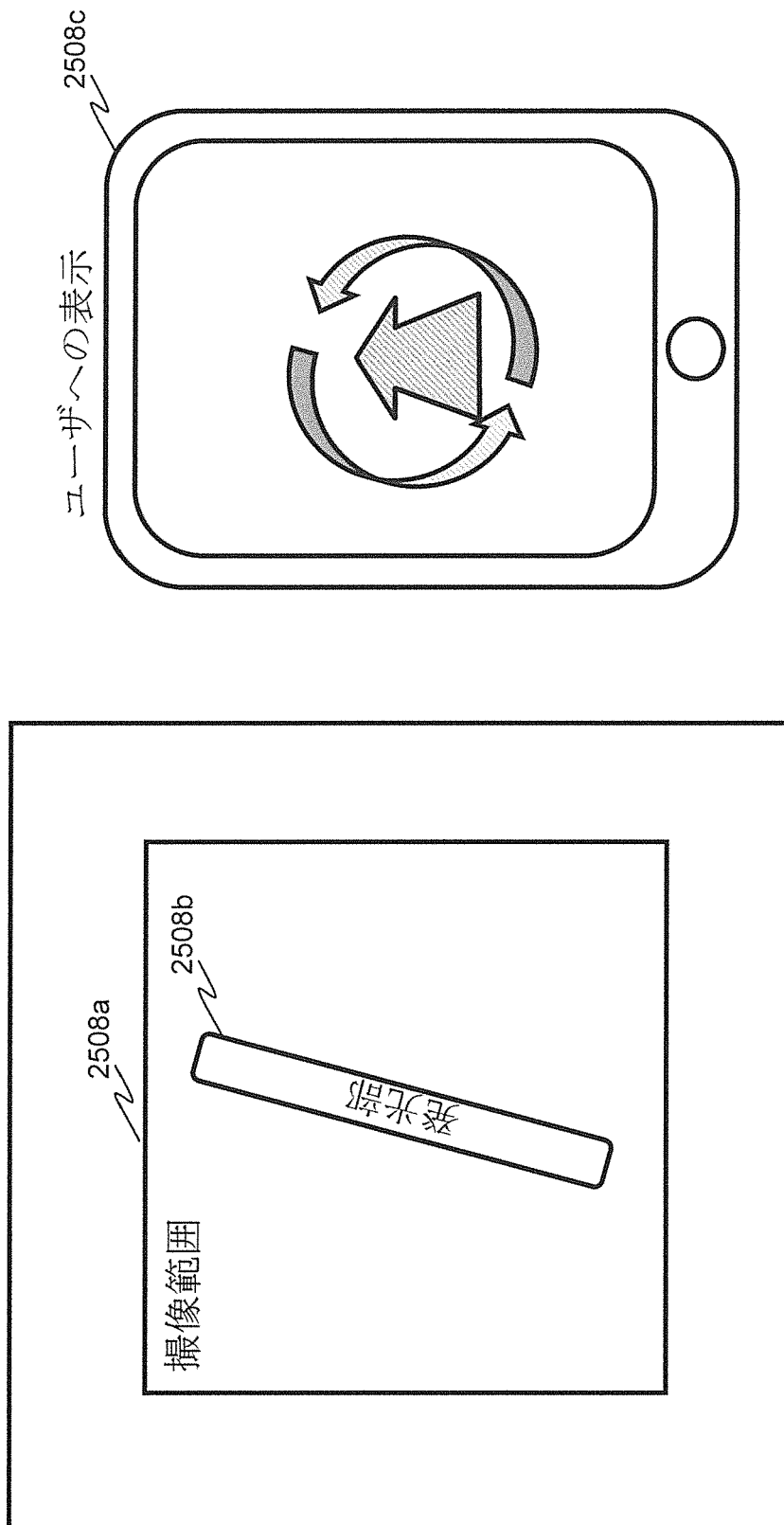
[図80]



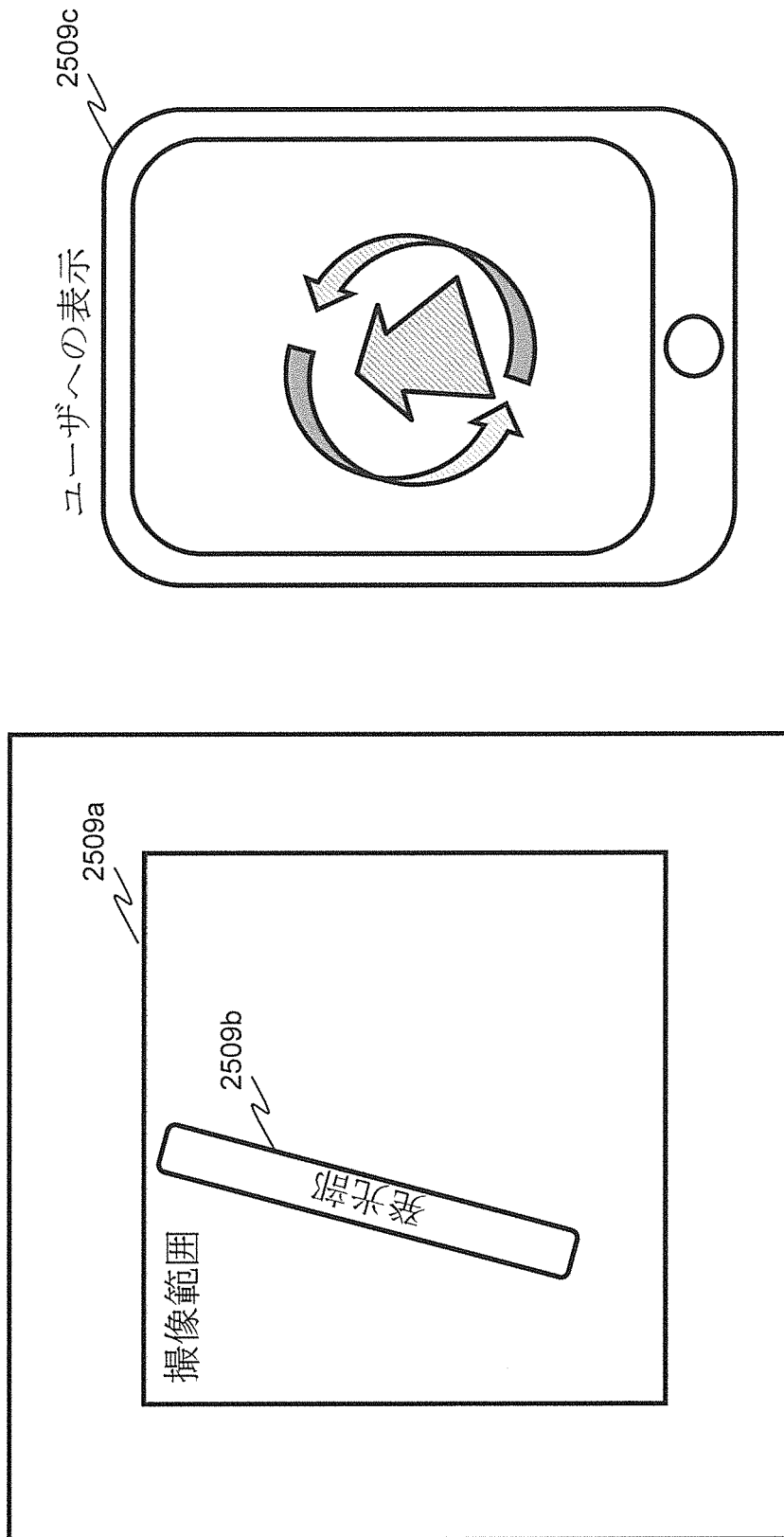
[図81]



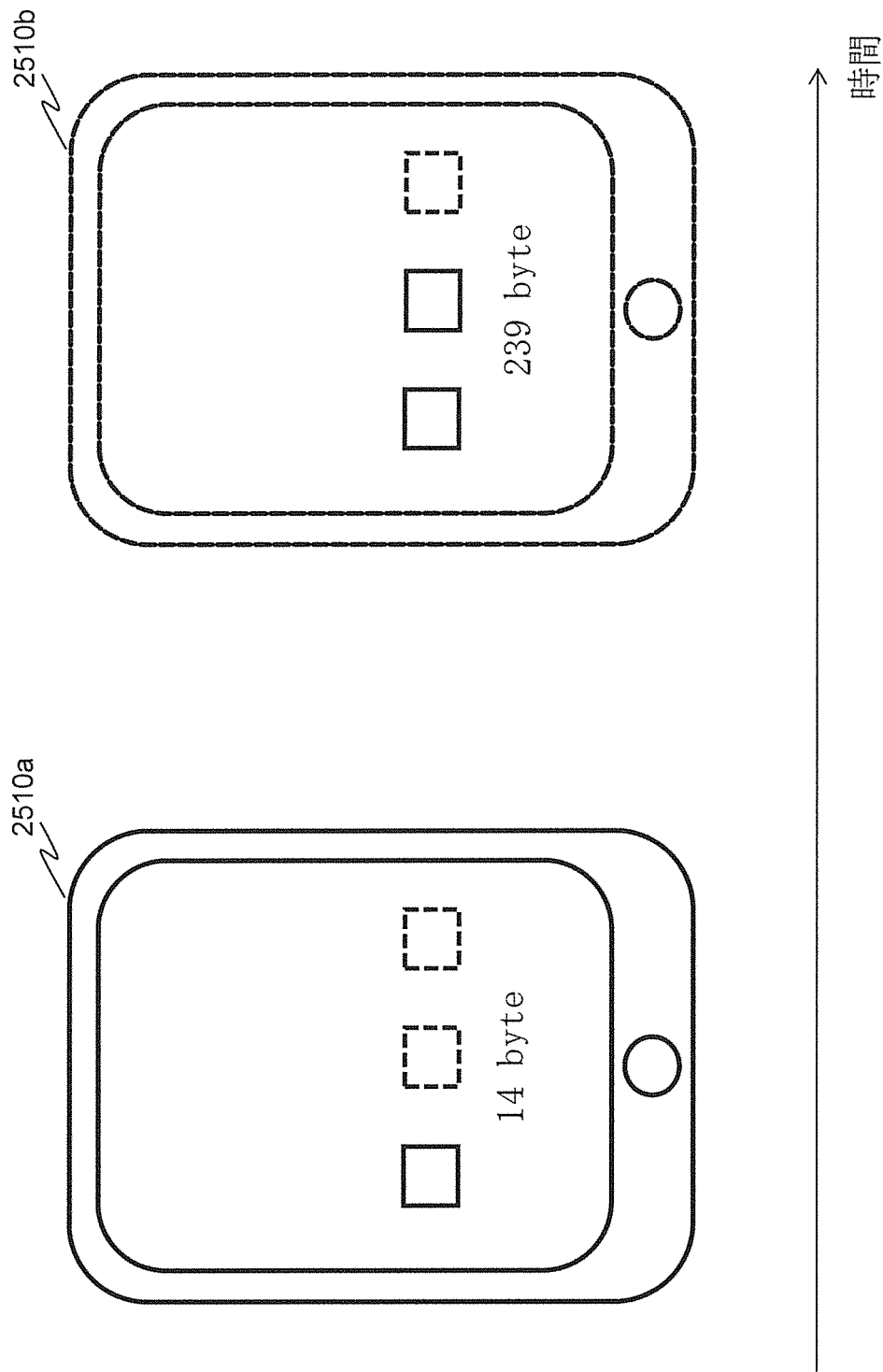
[図82]



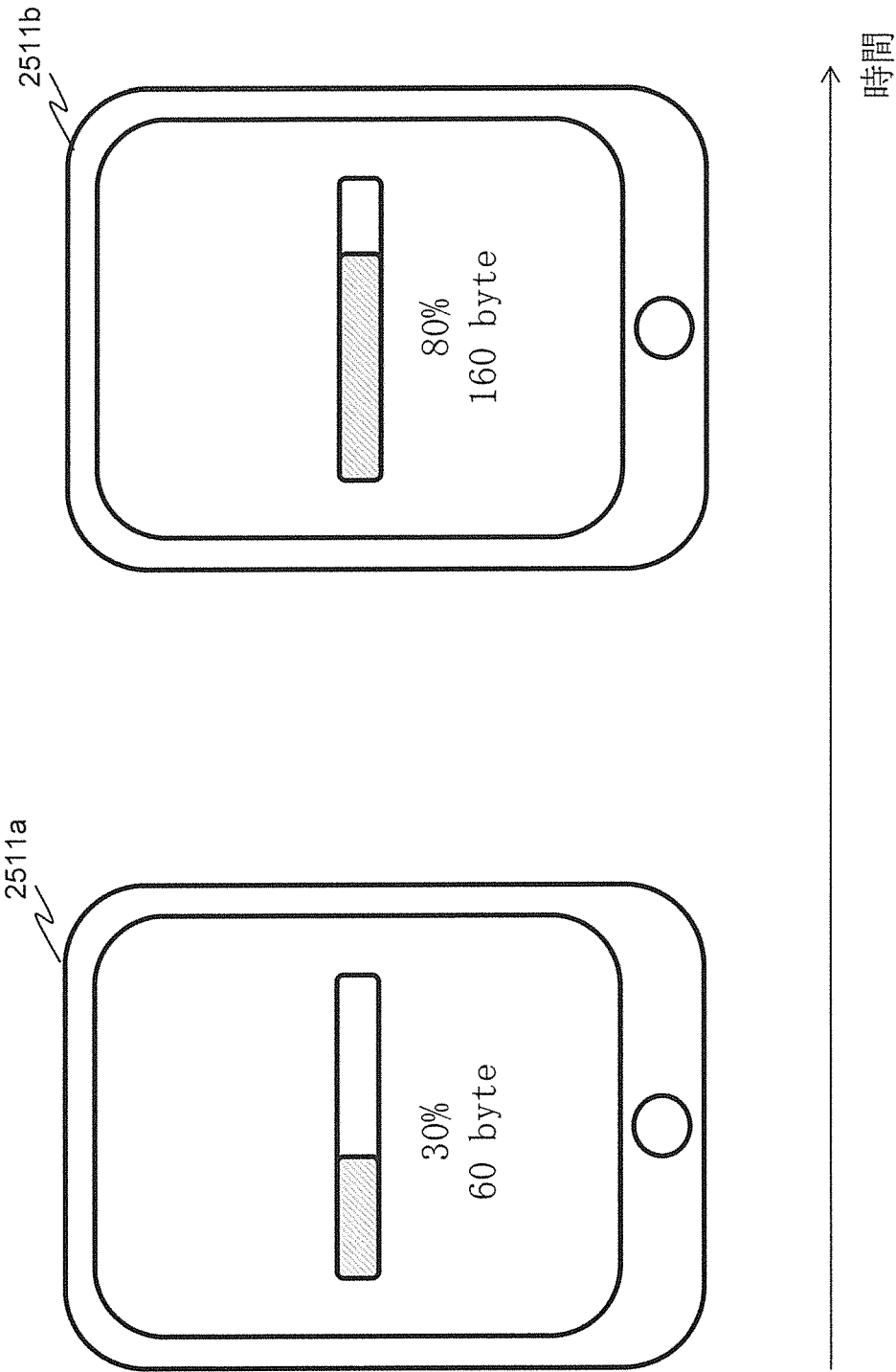
[図83]



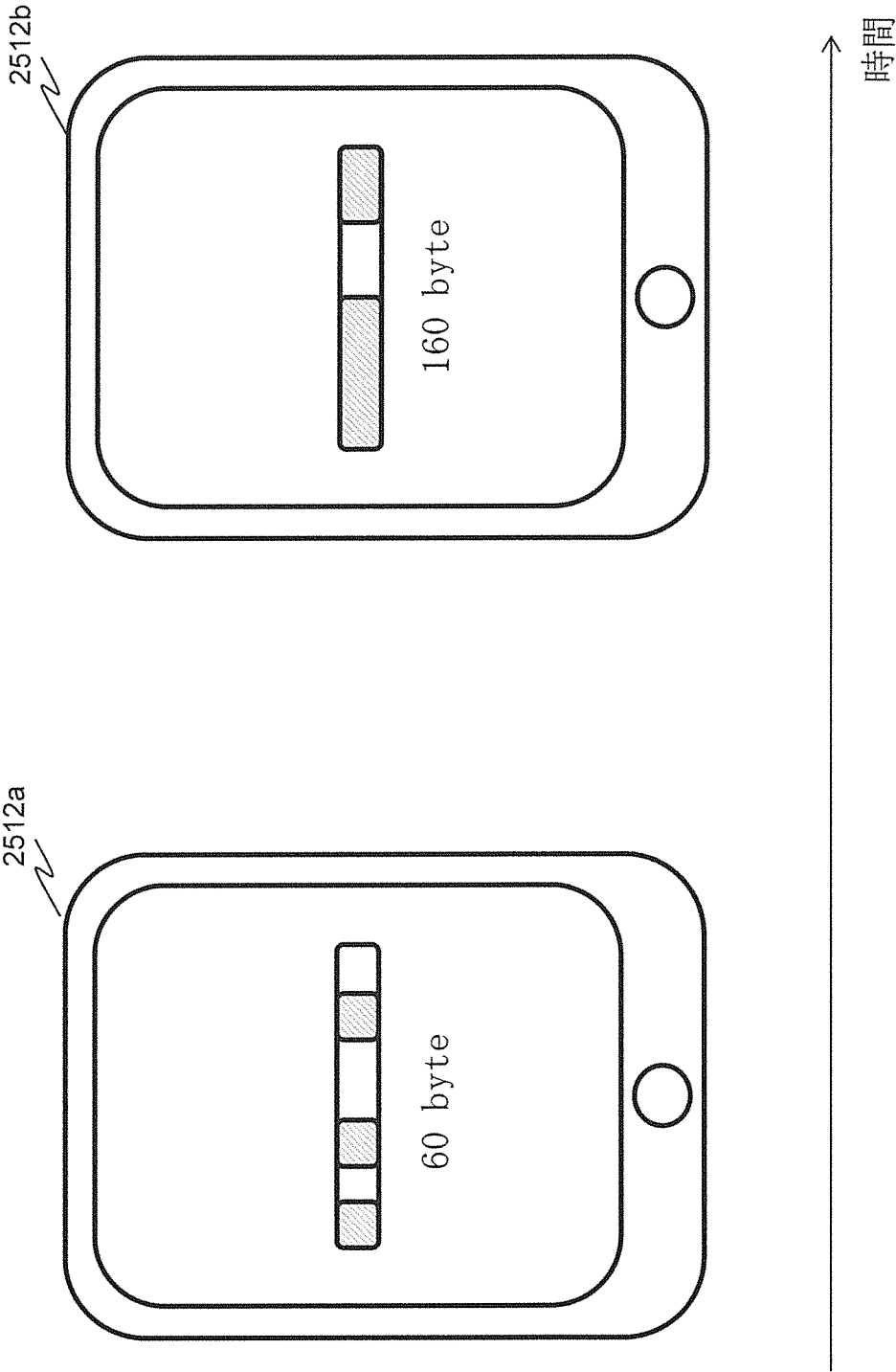
[図84]



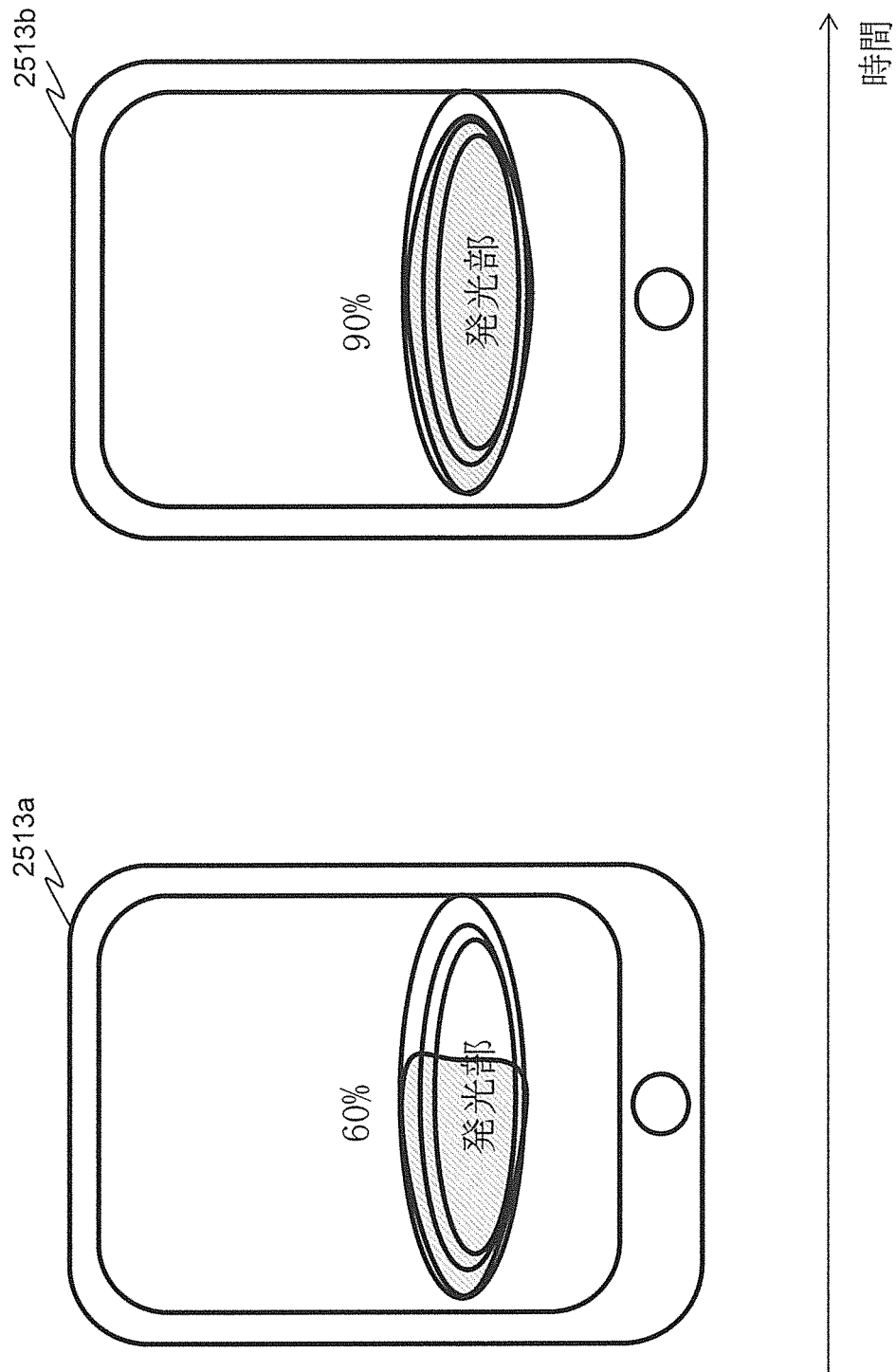
[図85]



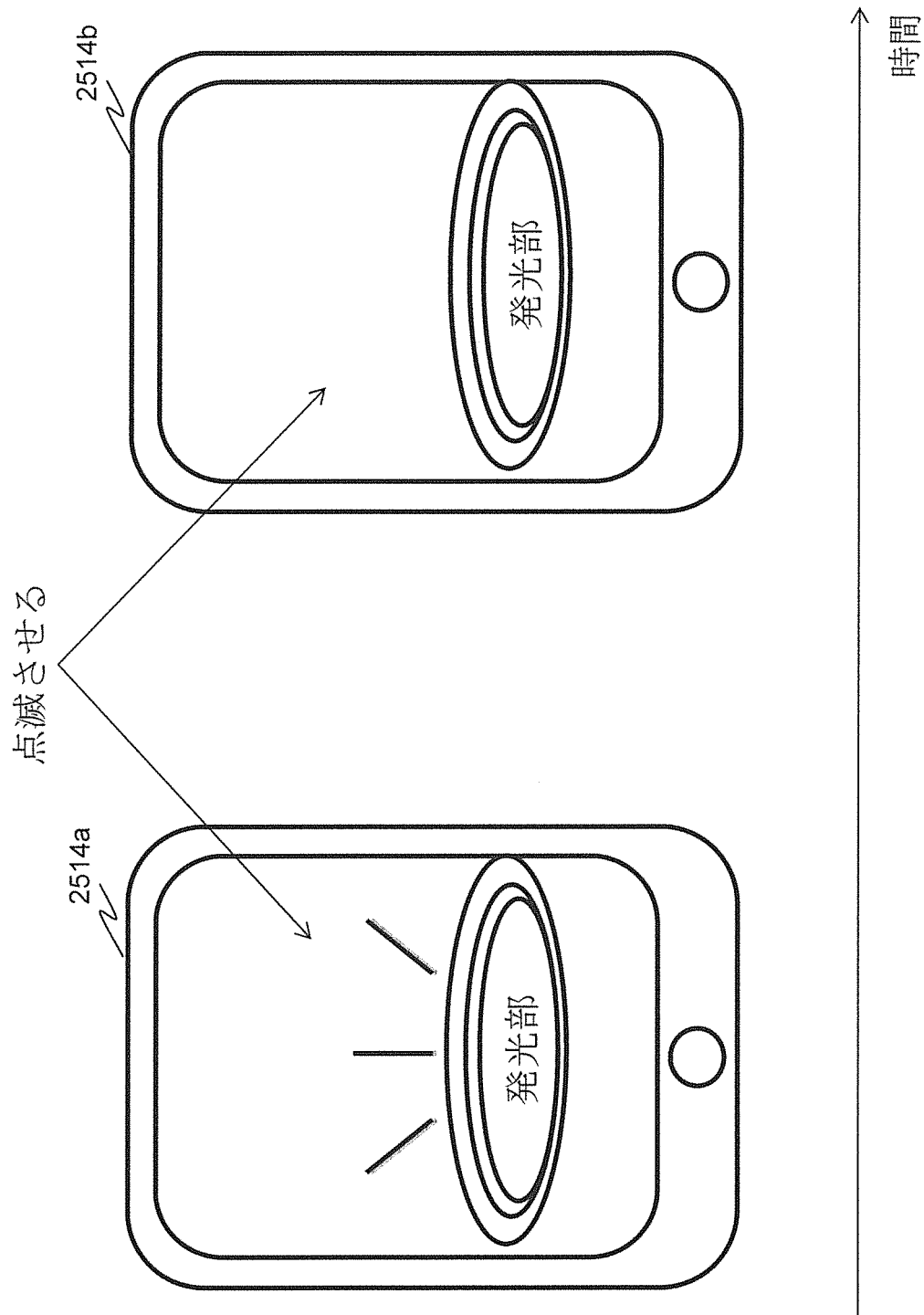
[図86]



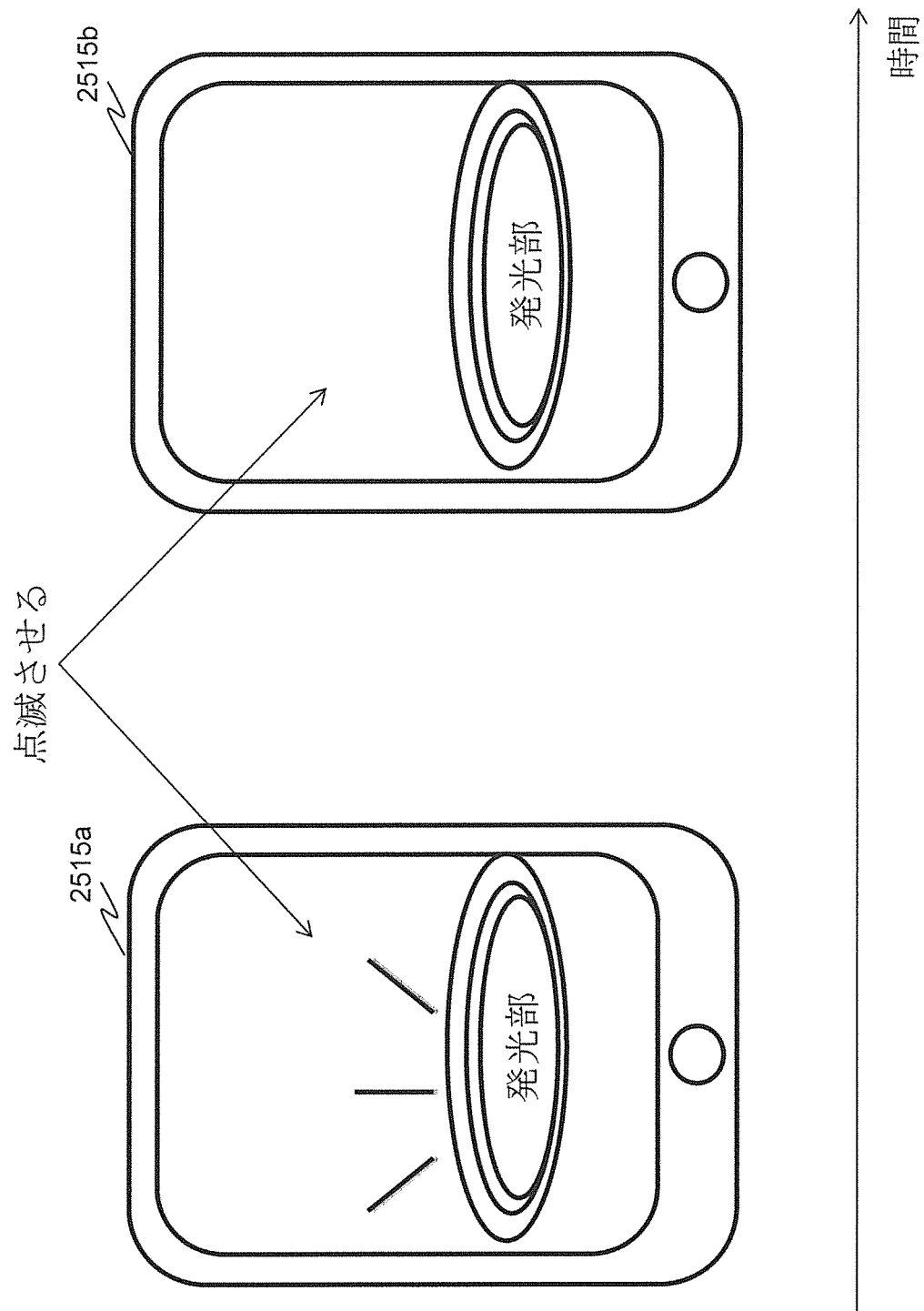
[図87]



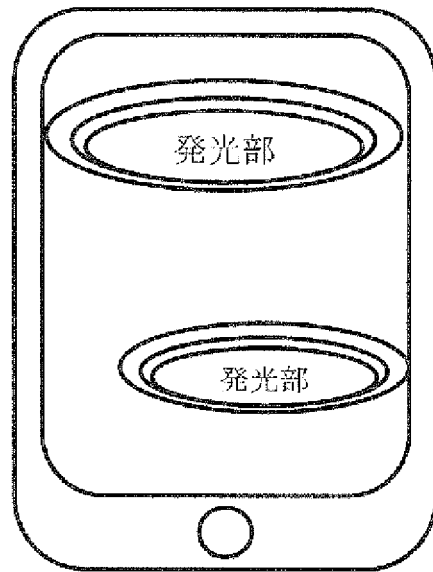
[図88]



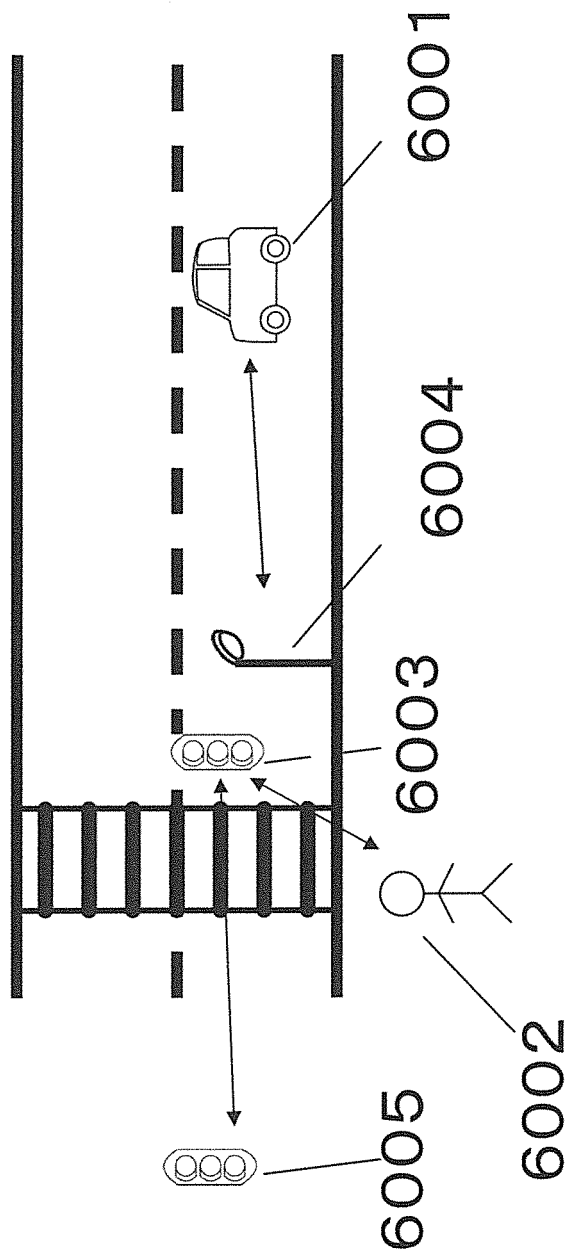
[図89]



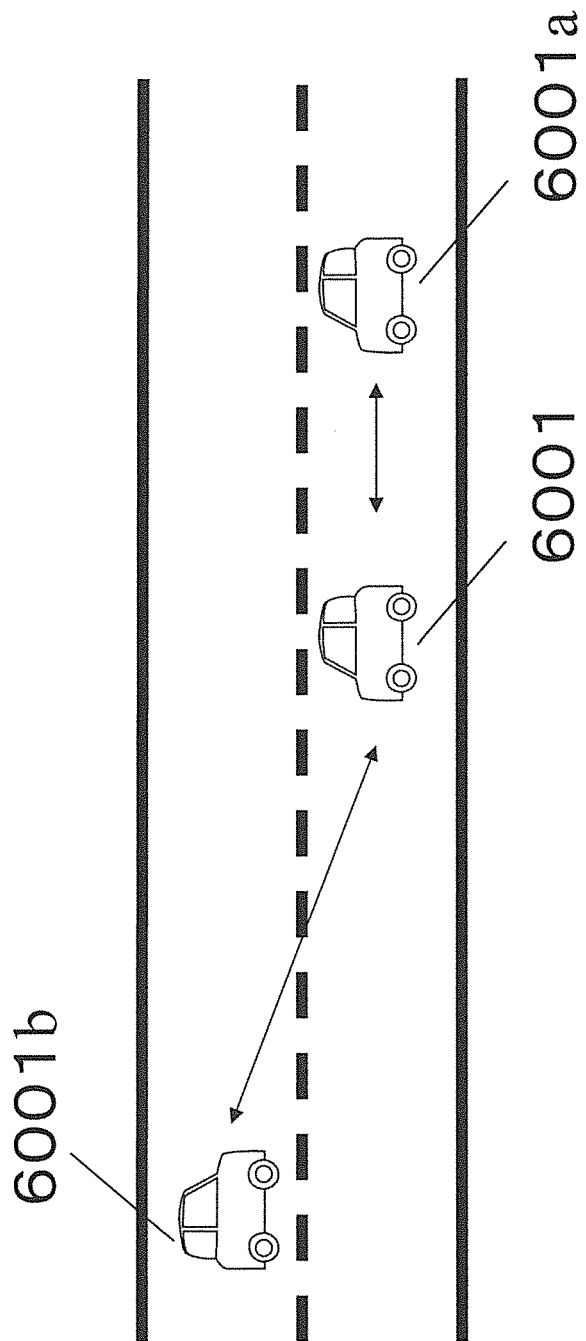
[図90]



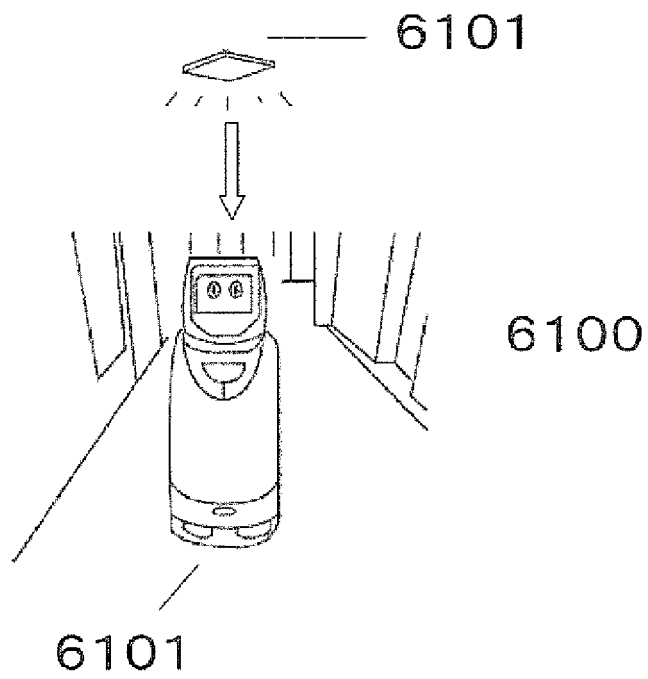
[図91]



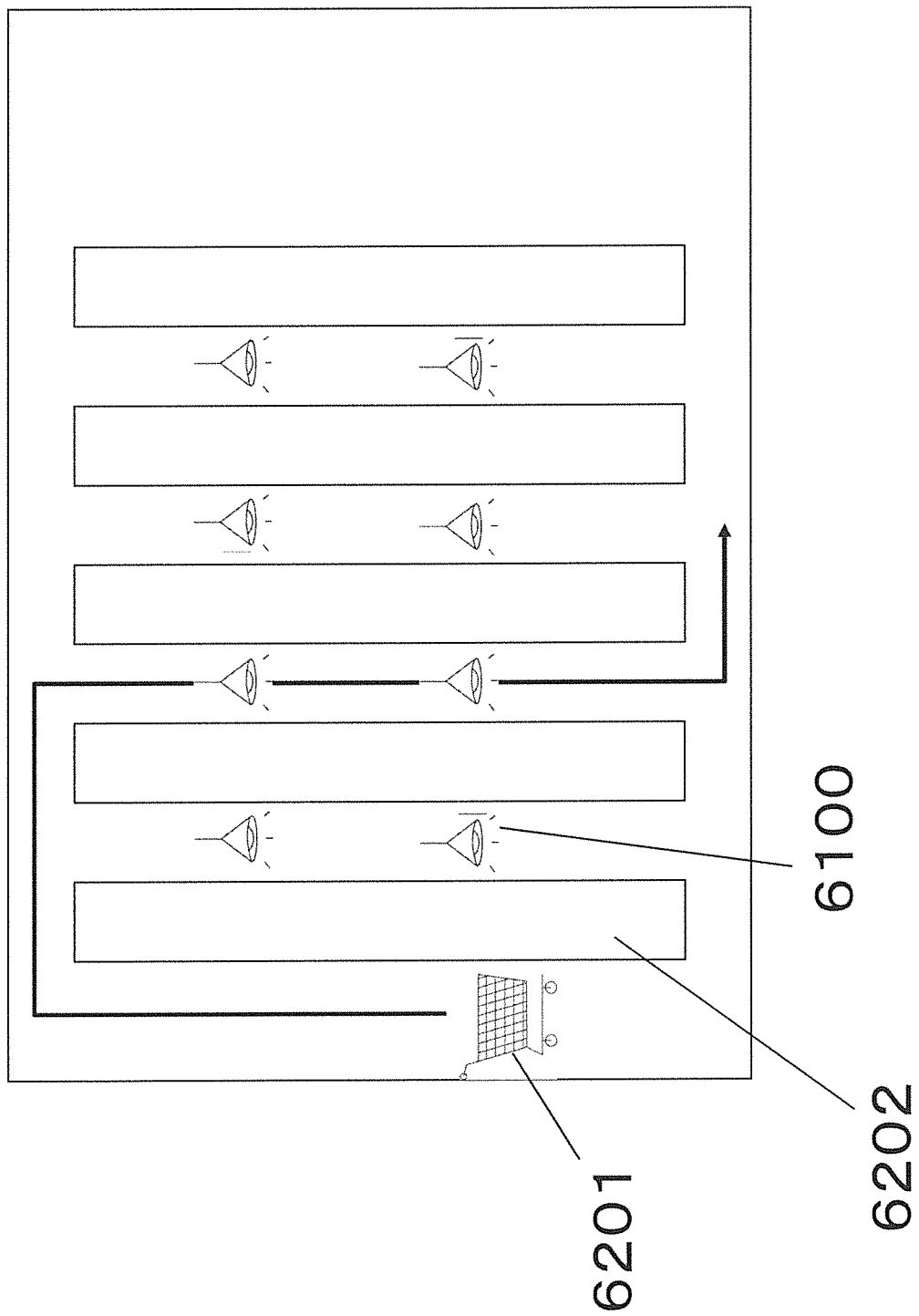
[図92]



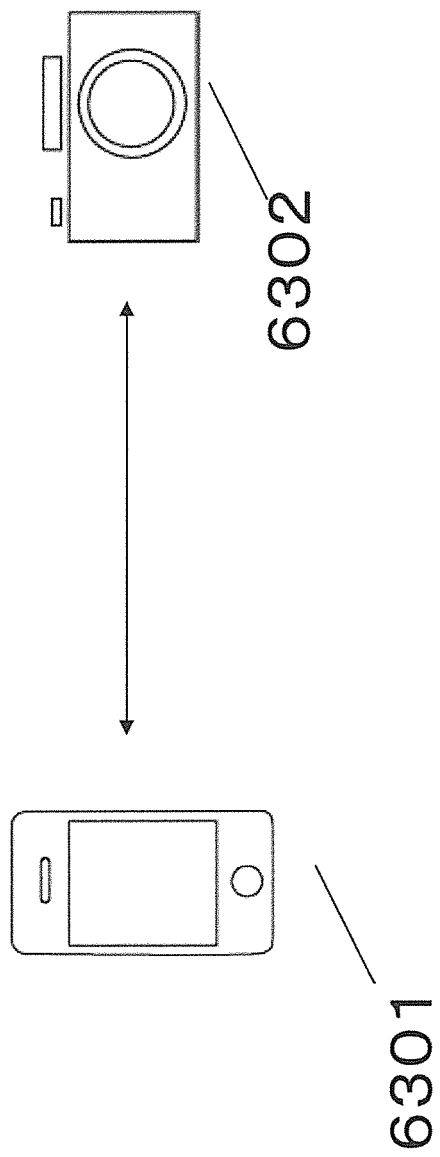
[図93]



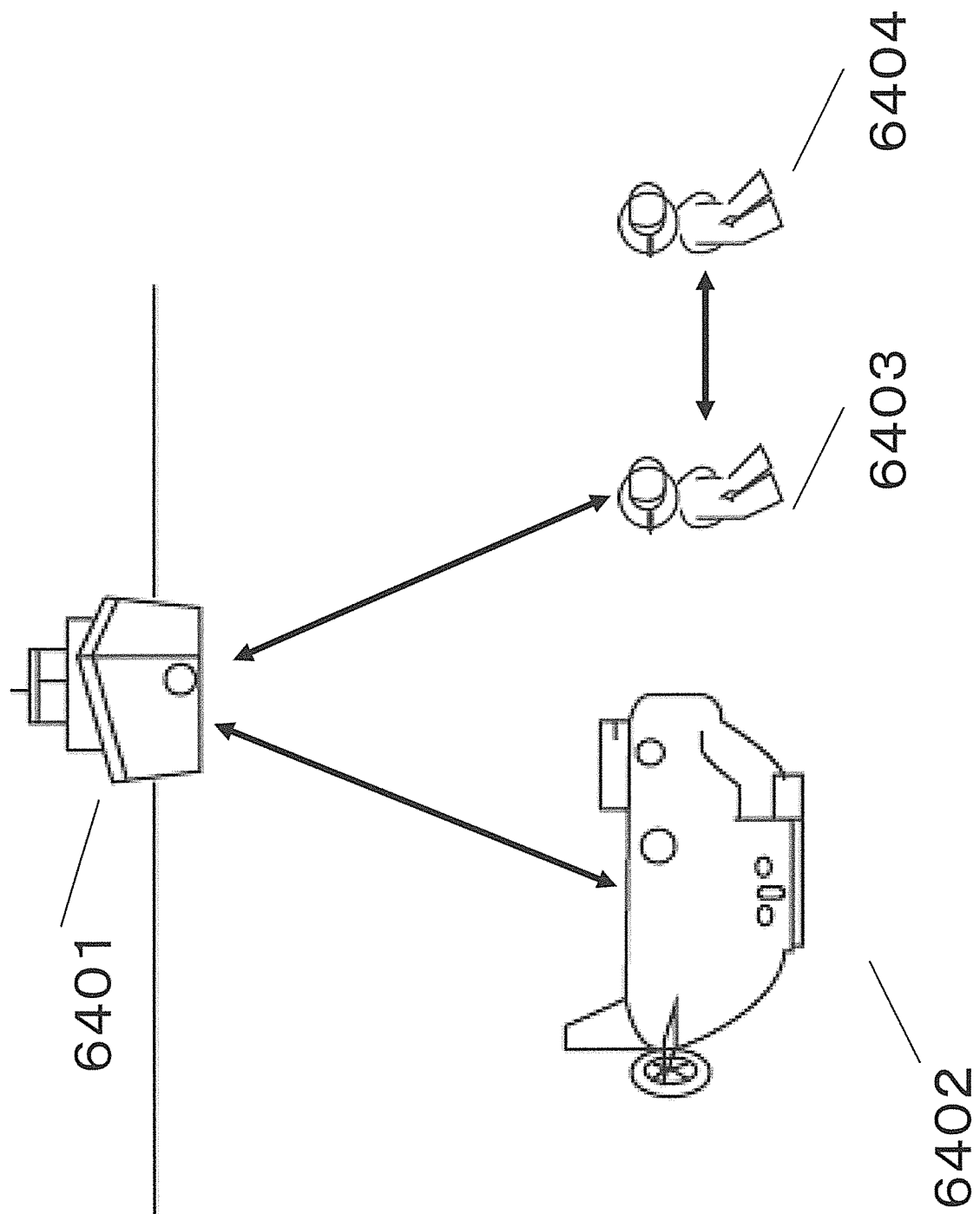
[図94]

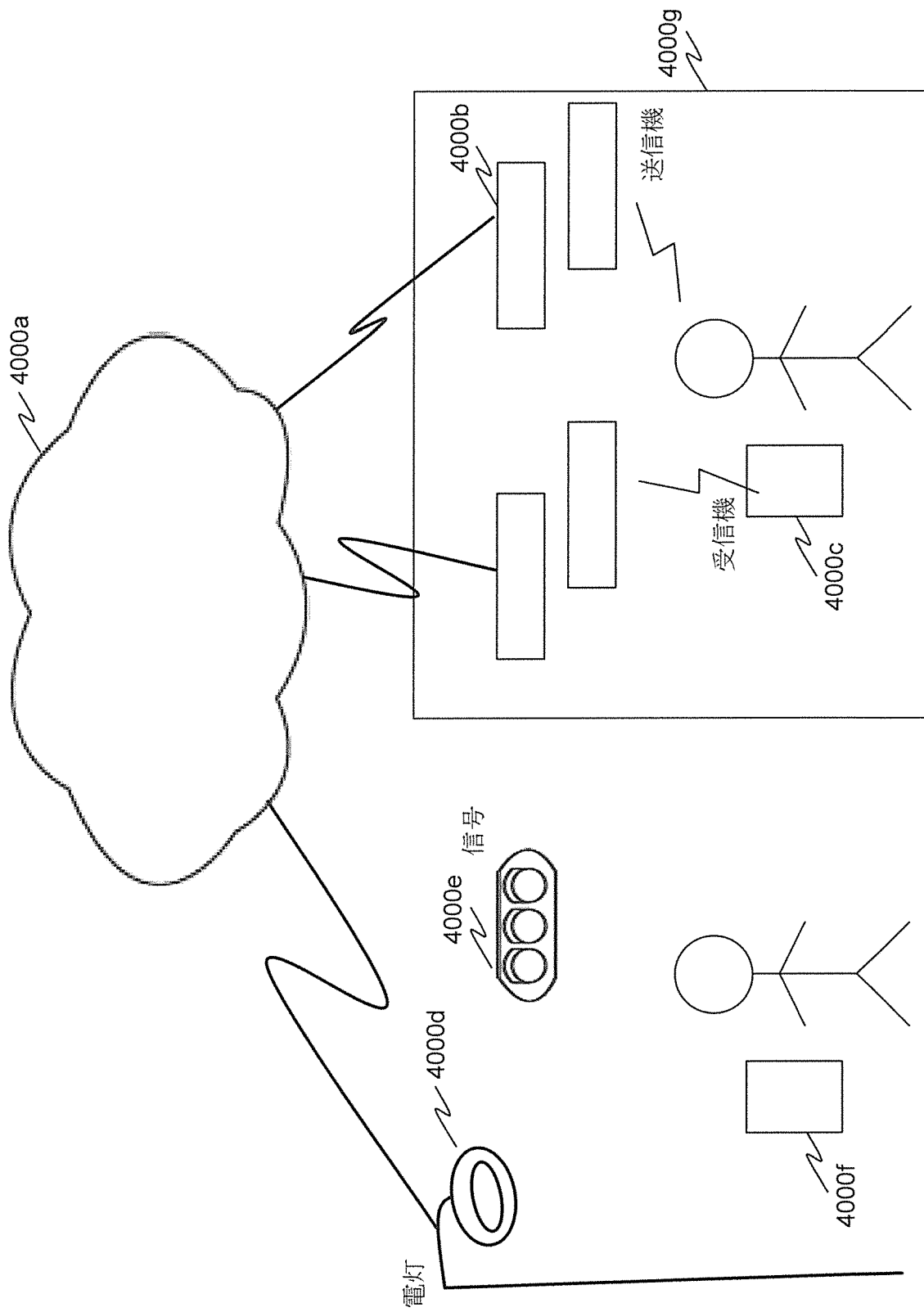


[図95]

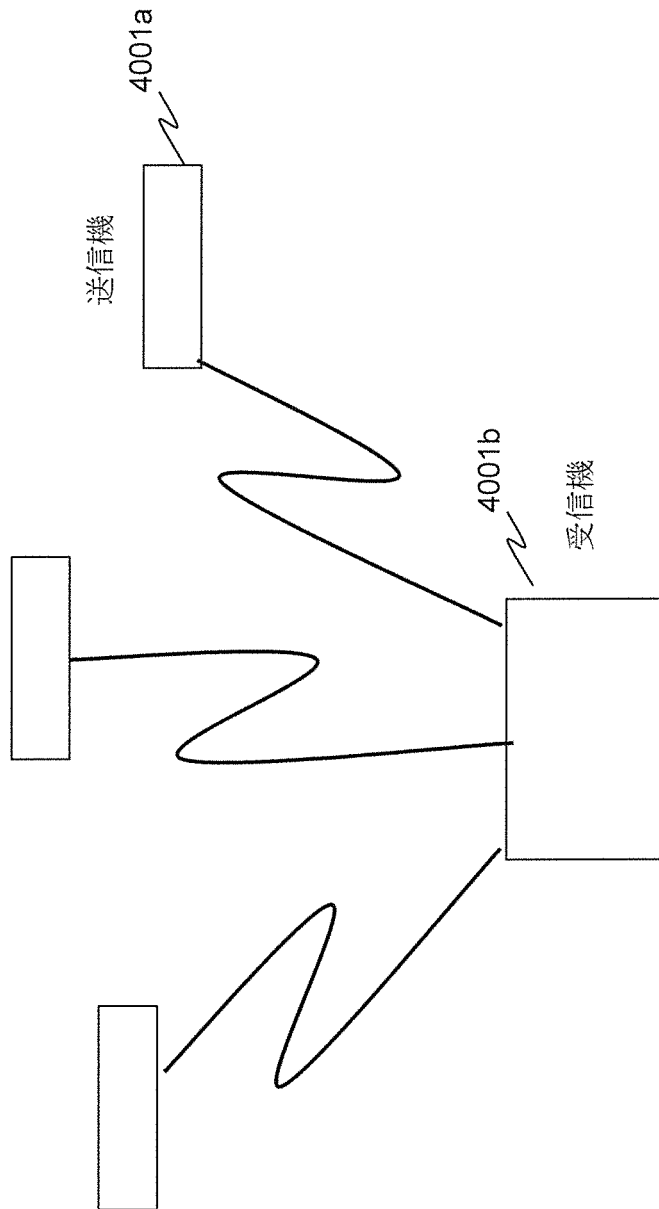


[図96]

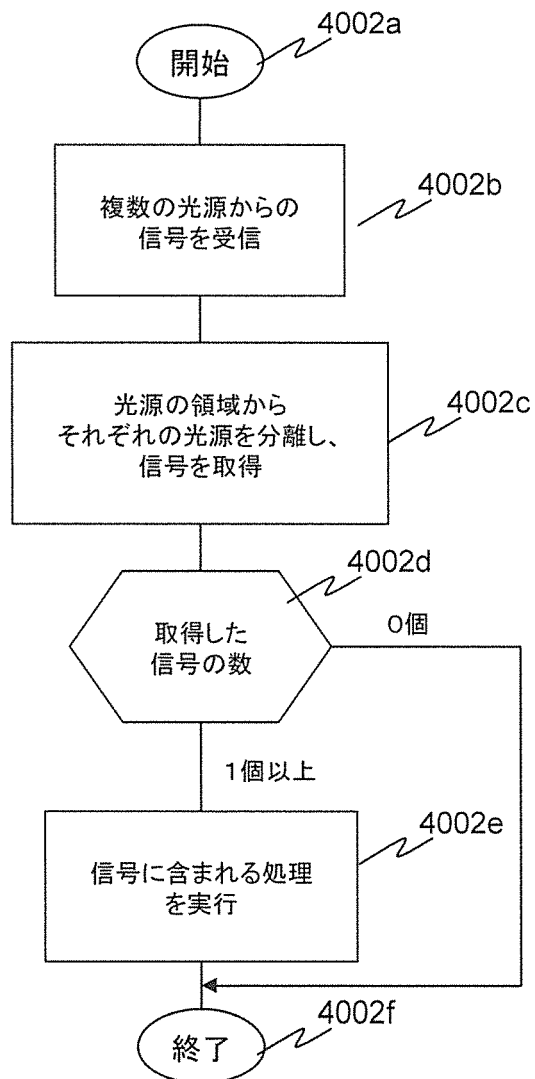




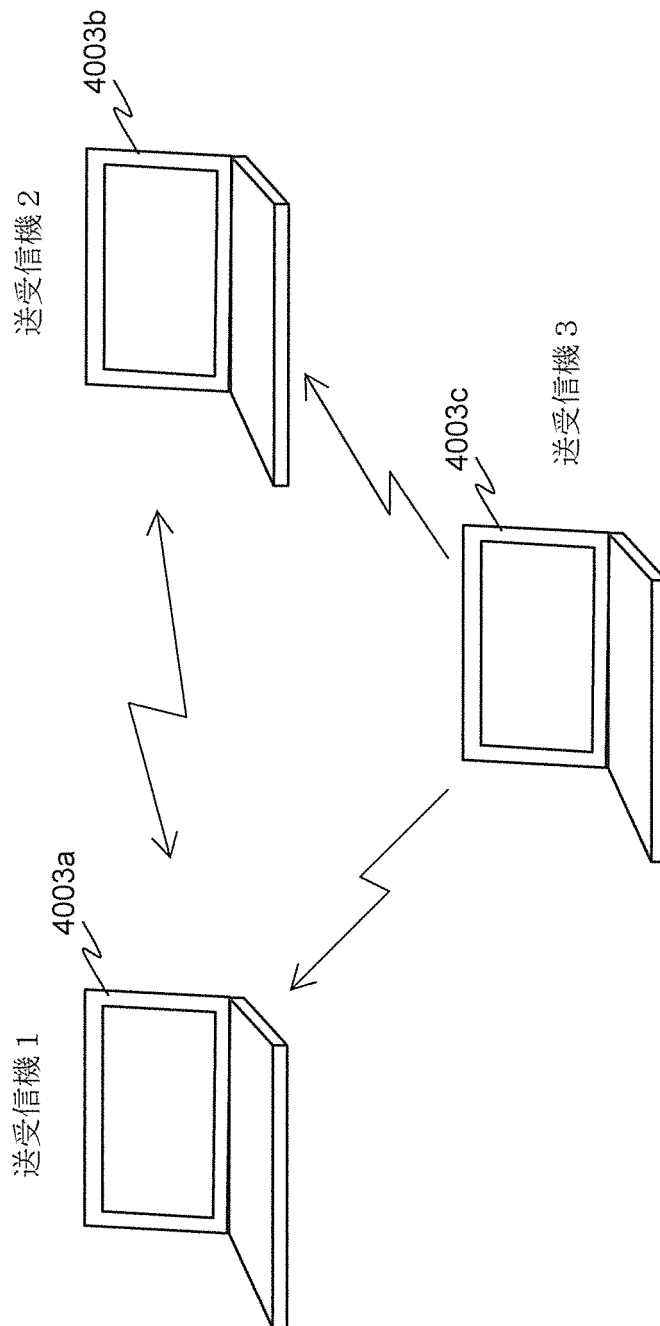
[図98]



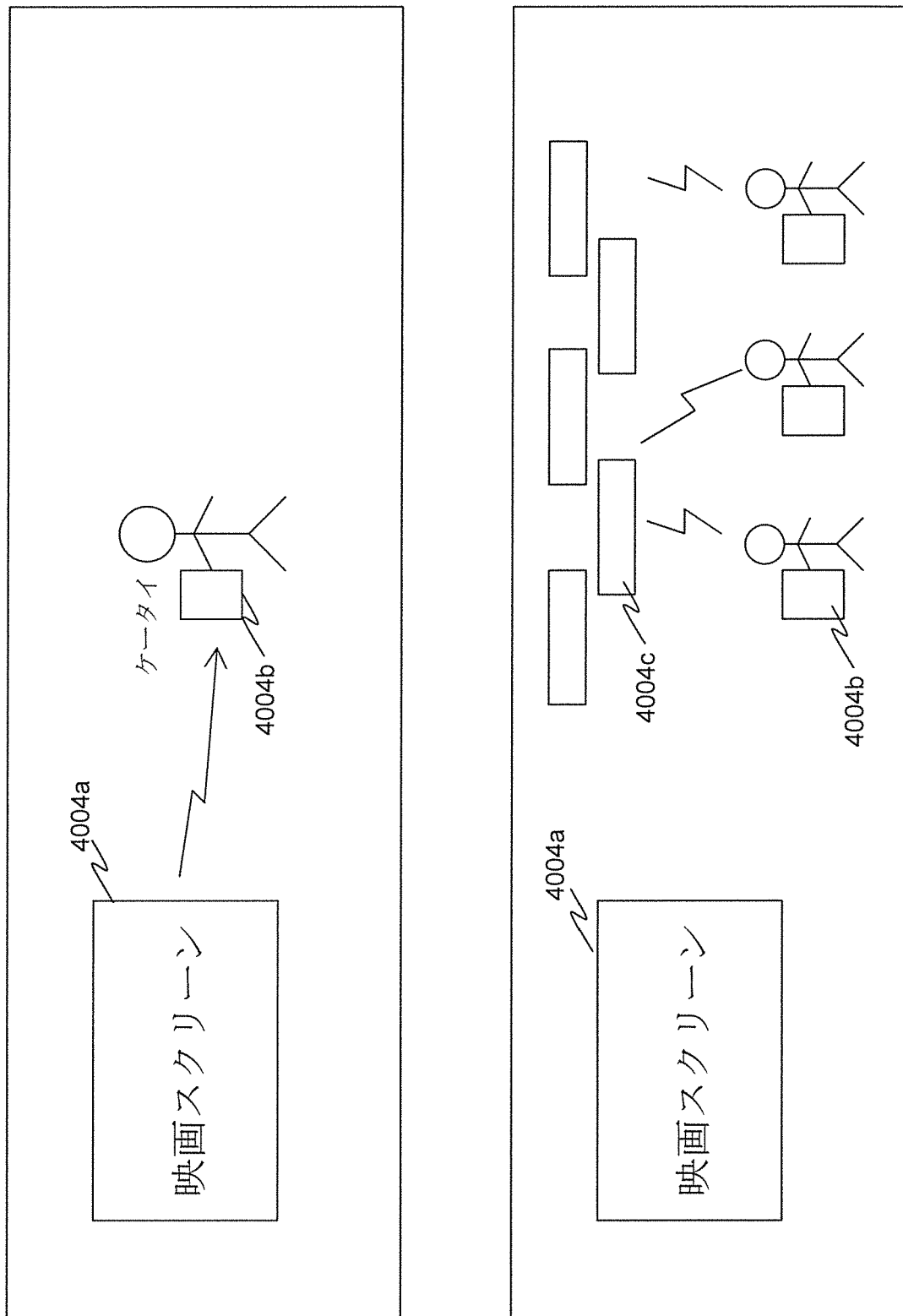
[図99]



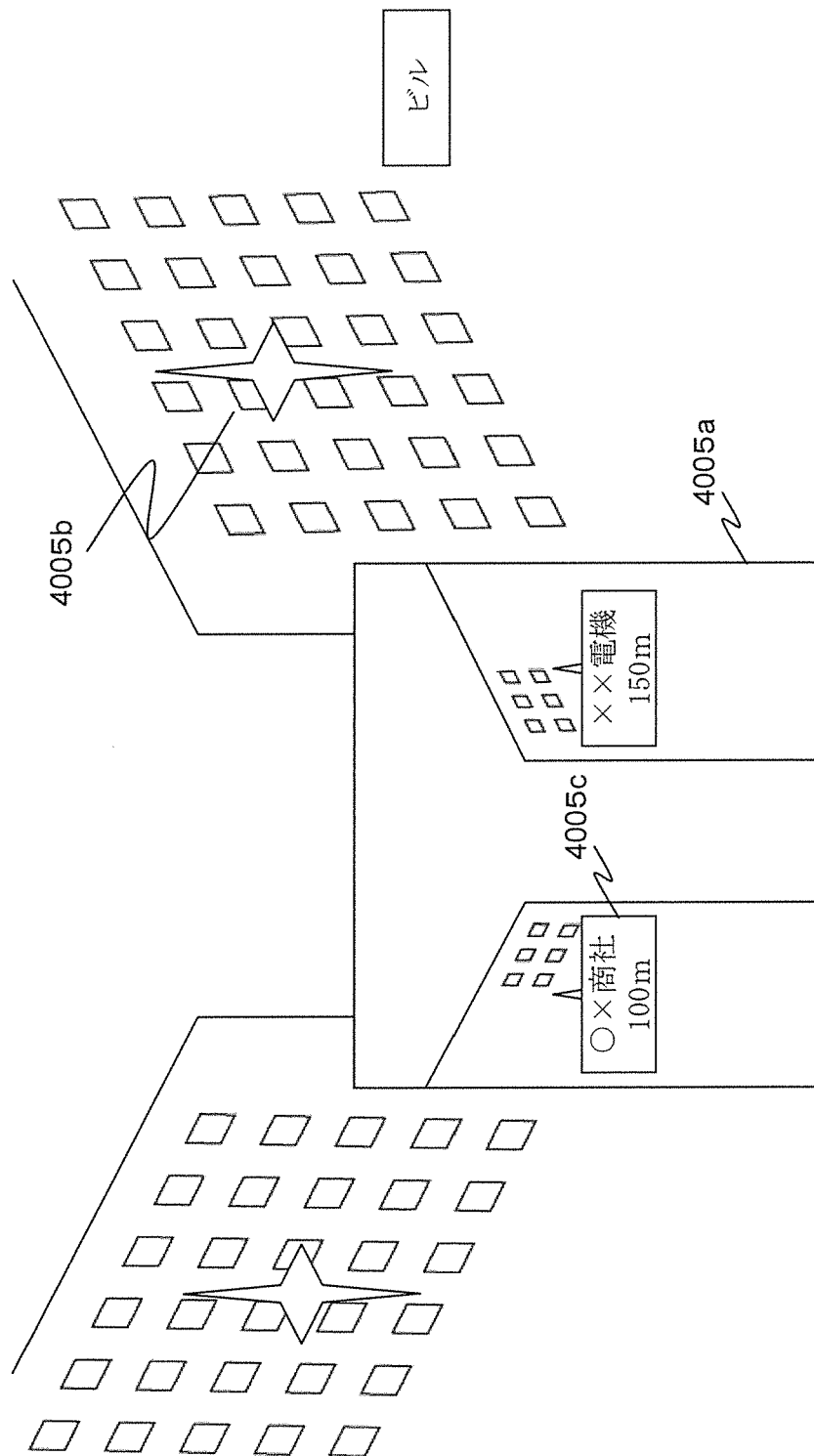
[図100]



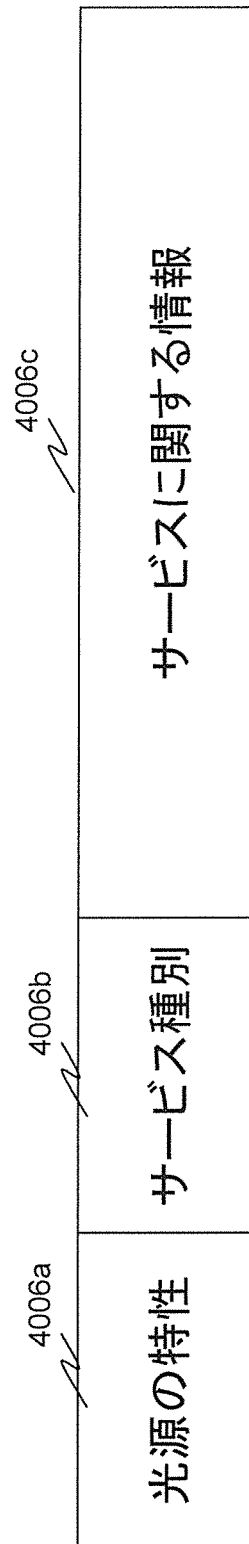
[図101]



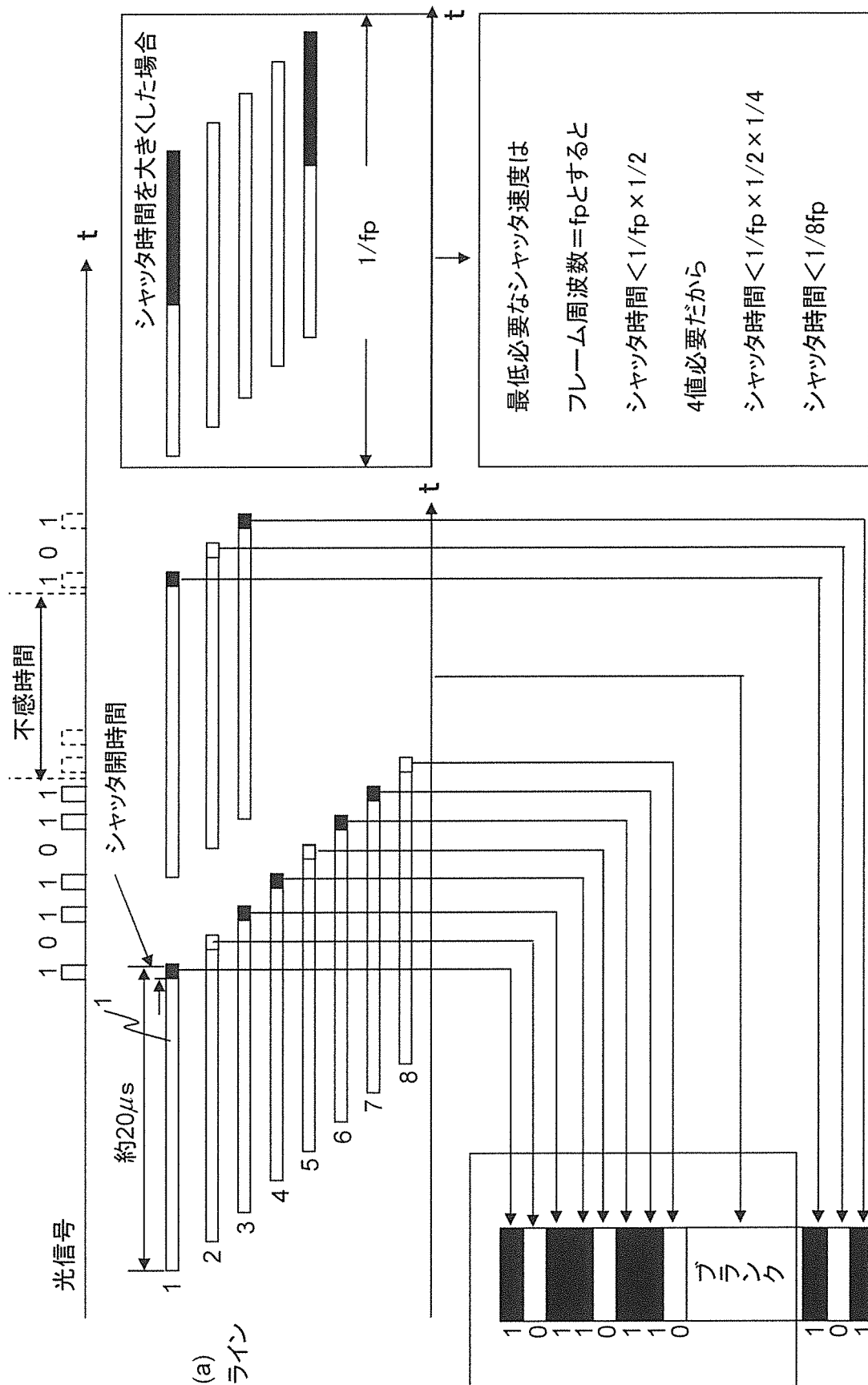
[図102]



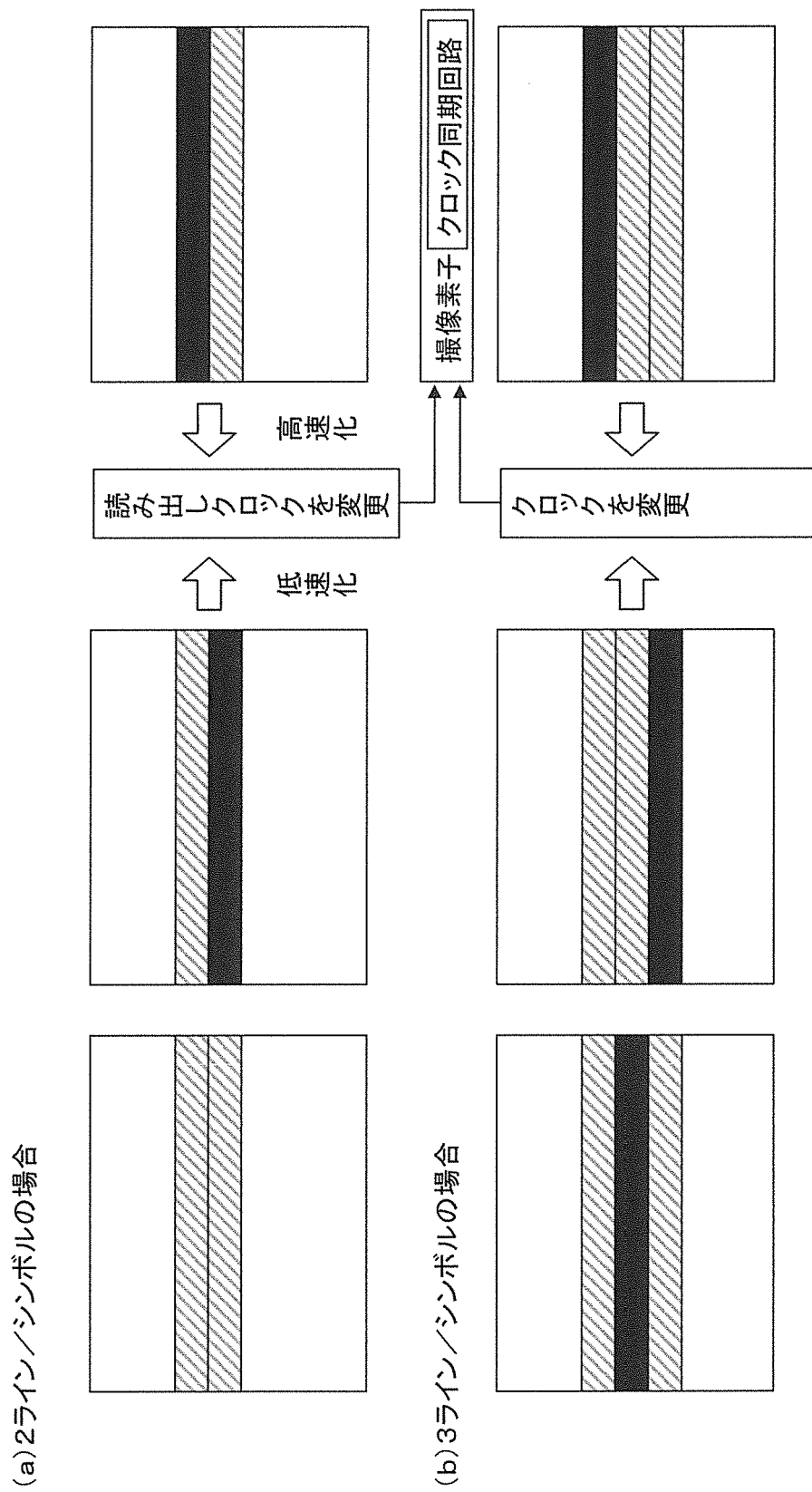
[図103]



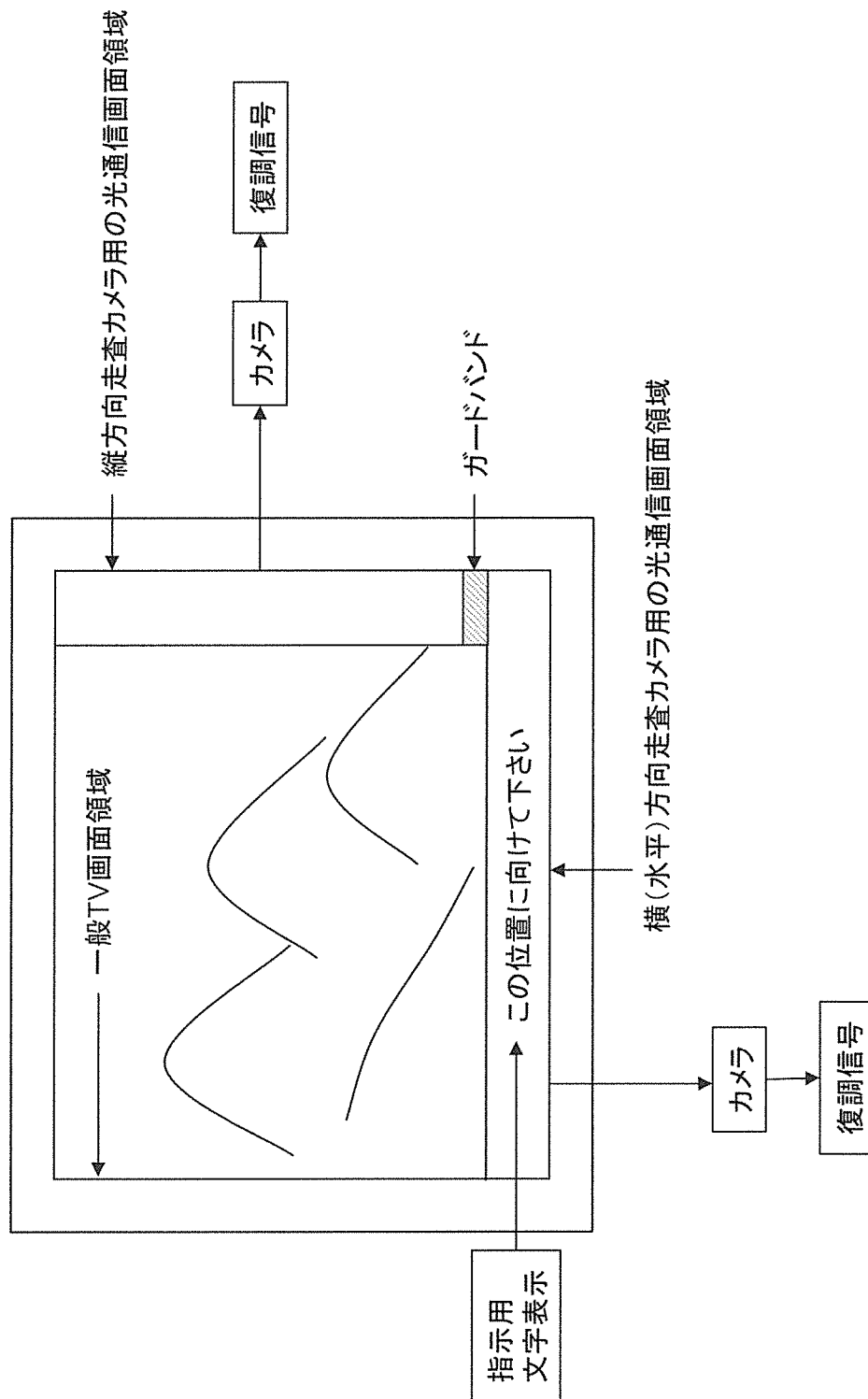
[図104]



[図105]



[図106]



[図107]

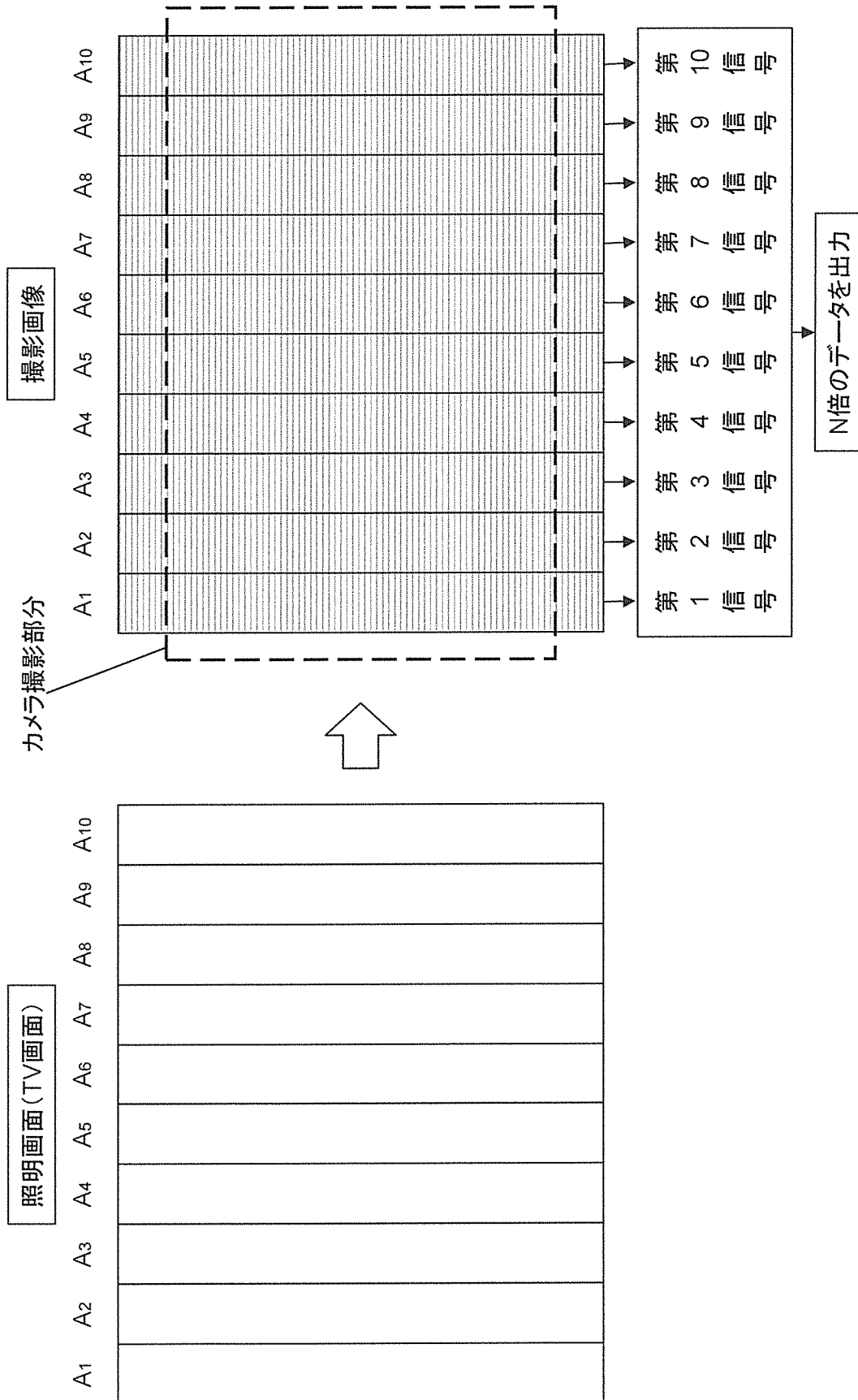
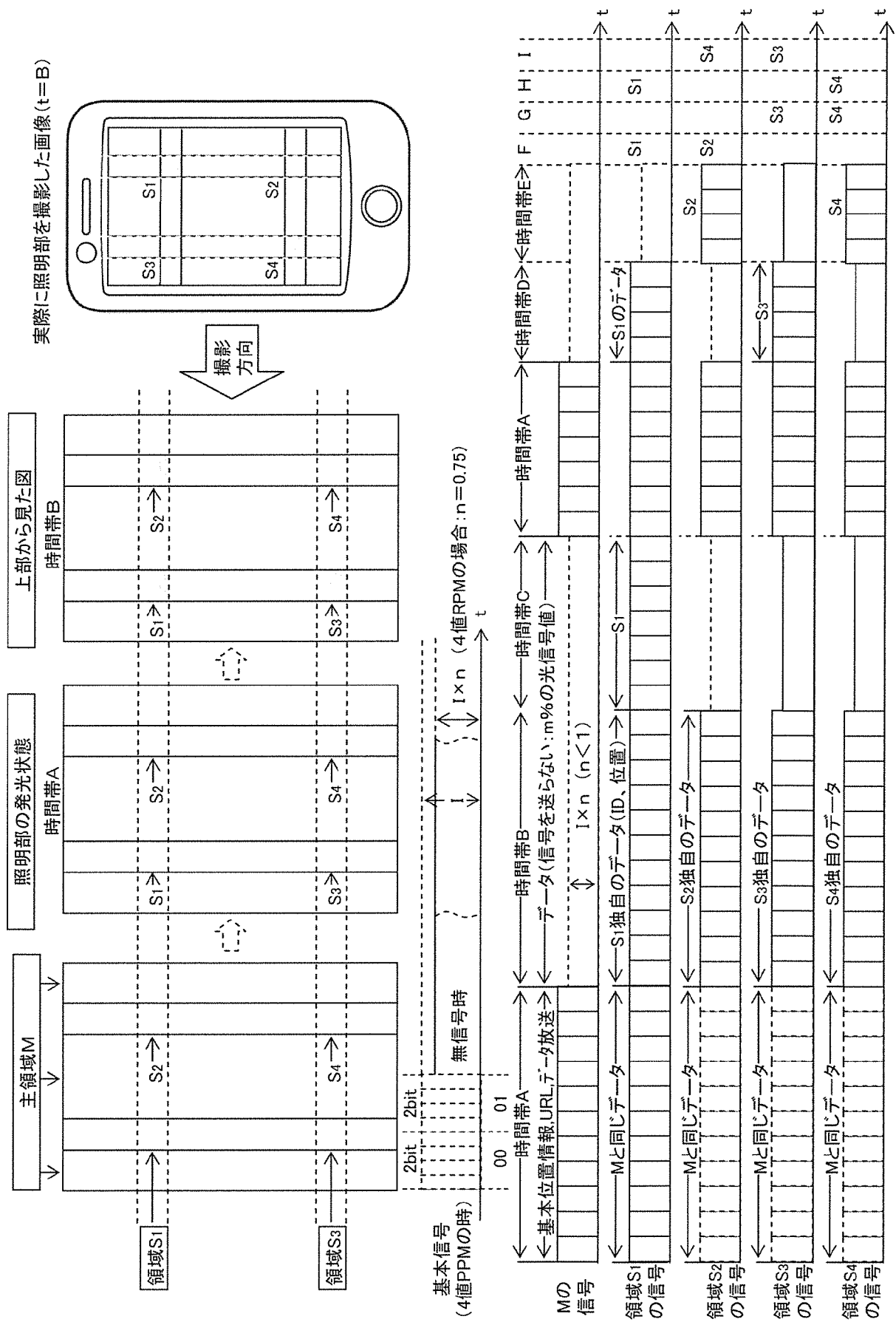
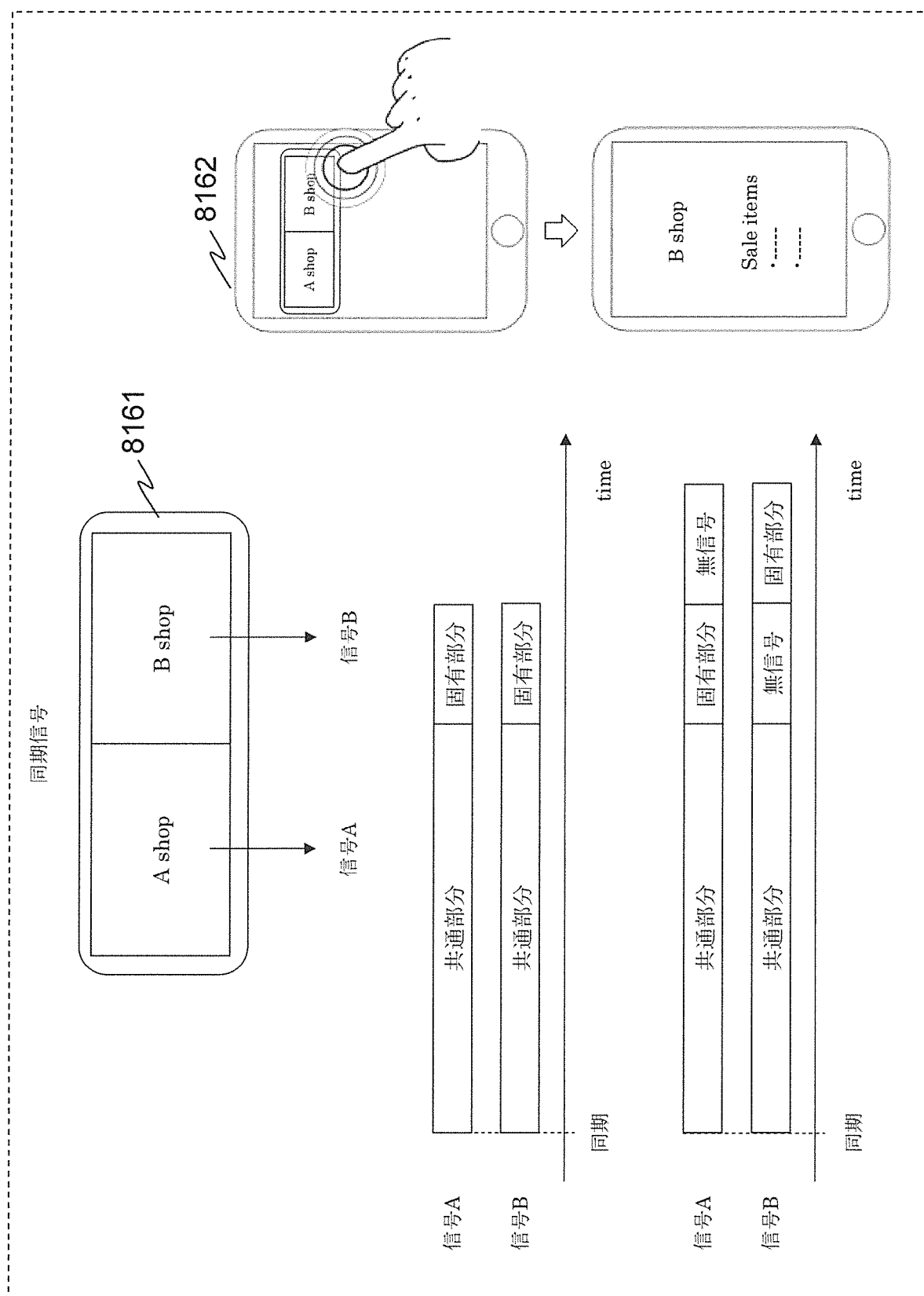


Figure 1 is a diagram illustrating a mobile phone location determination system. The main diagram shows a person holding a mobile phone at height h , with a base station at height H . The horizontal distance is d , and the angle of elevation is Θ_1 . A dashed line represents the line of sight. A box lists sensors: 地磁気センサー (Geomagnetic sensor), 加速度センサー (Acceleration sensor), 無線データ (Wireless data), 基地局ID (Base station ID), and 基地局電波強度 (Base station signal strength). A formula box shows $d = (H-h) \times \tan^{-1} \Theta_1$. An inset diagram shows a top-down view of the phone's orientation with angles Θ_1 and Θ_2 , and distances d_1 and d_2 . A table on the right shows location information (N34.7388, E135.5738) and distance information (d = 0.000013, d₁ = 0.000013, d₂ = 0.000097).

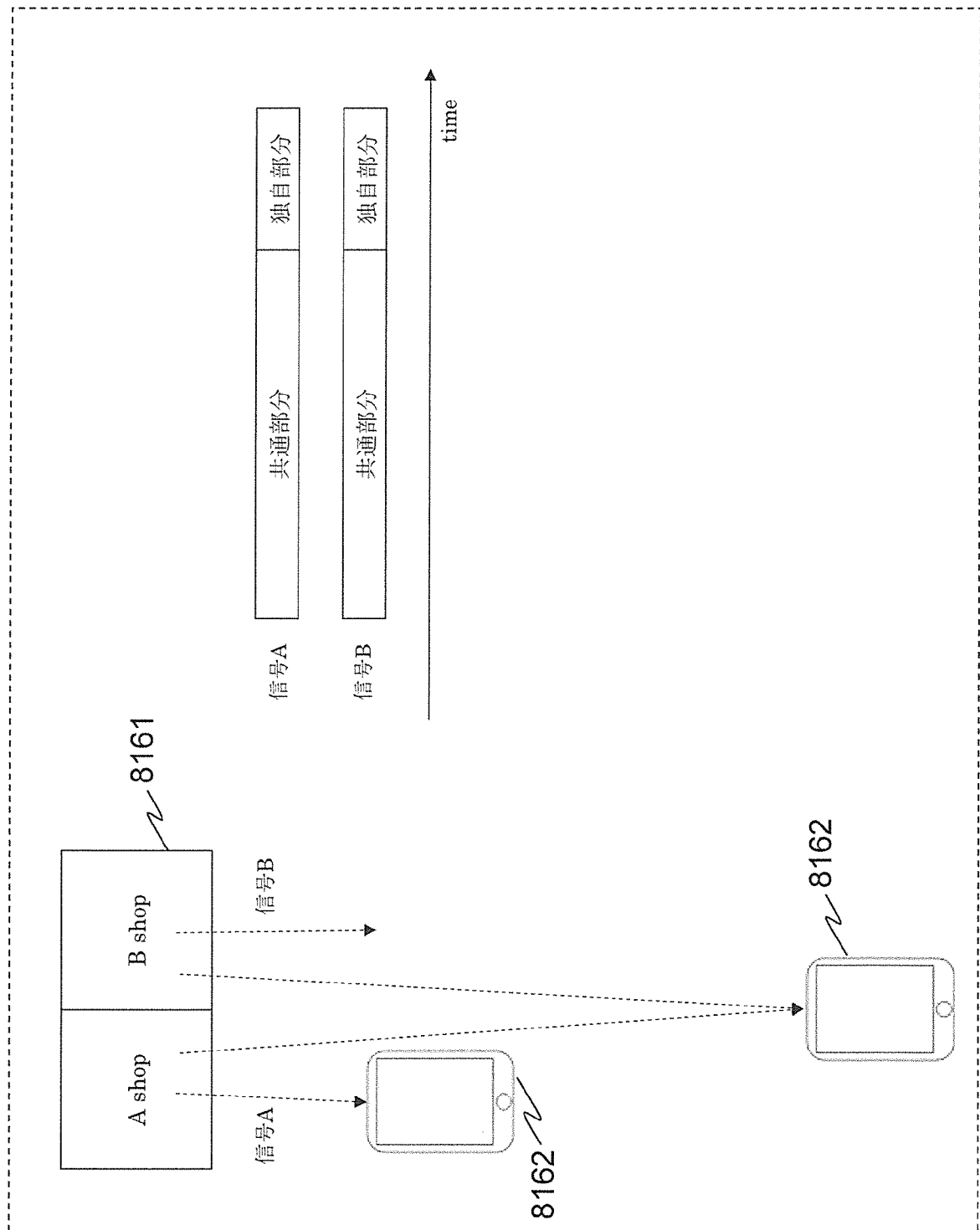
実際に照明部を撮影した画像 ($t=B$)



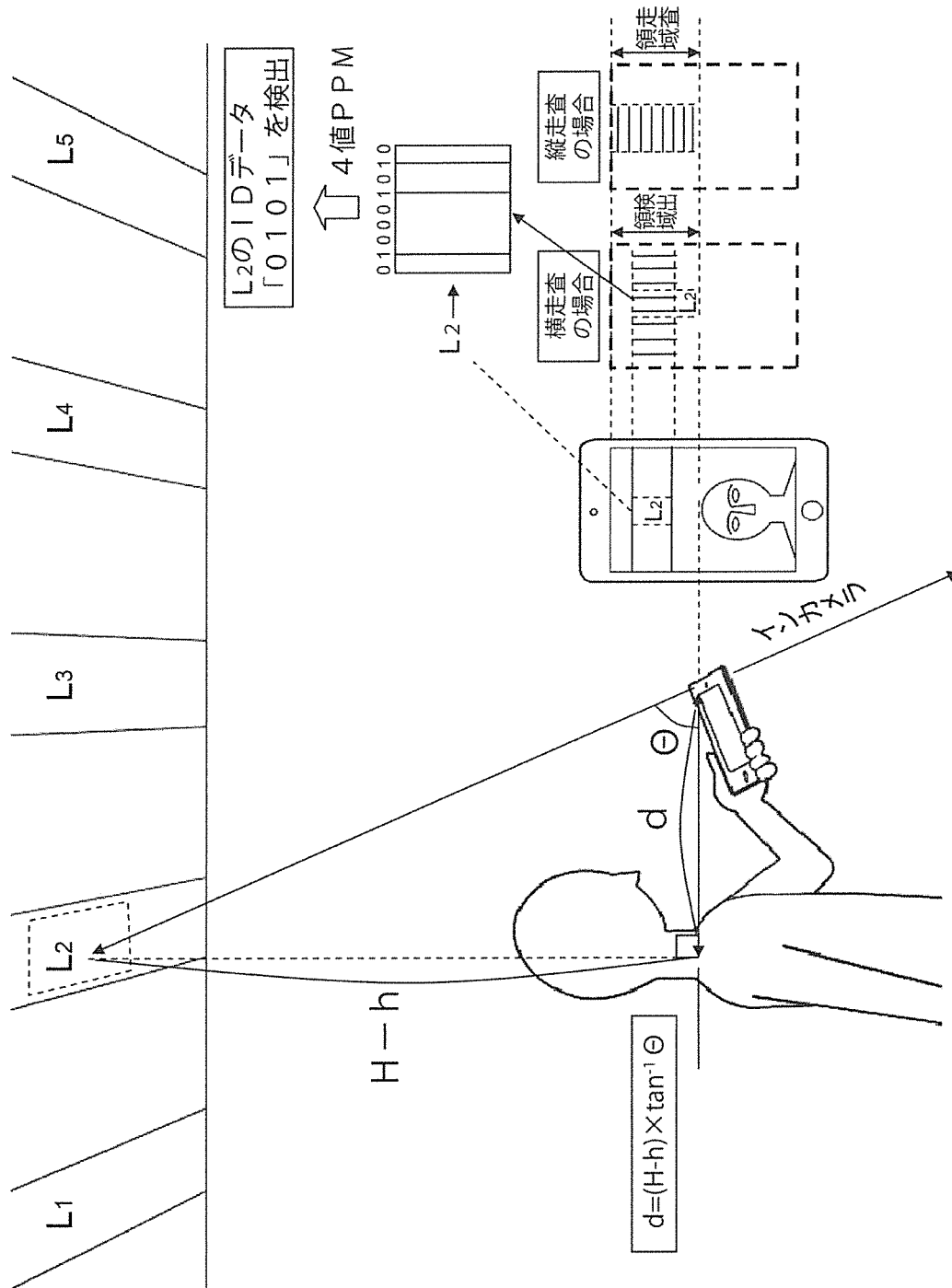
[図109B]



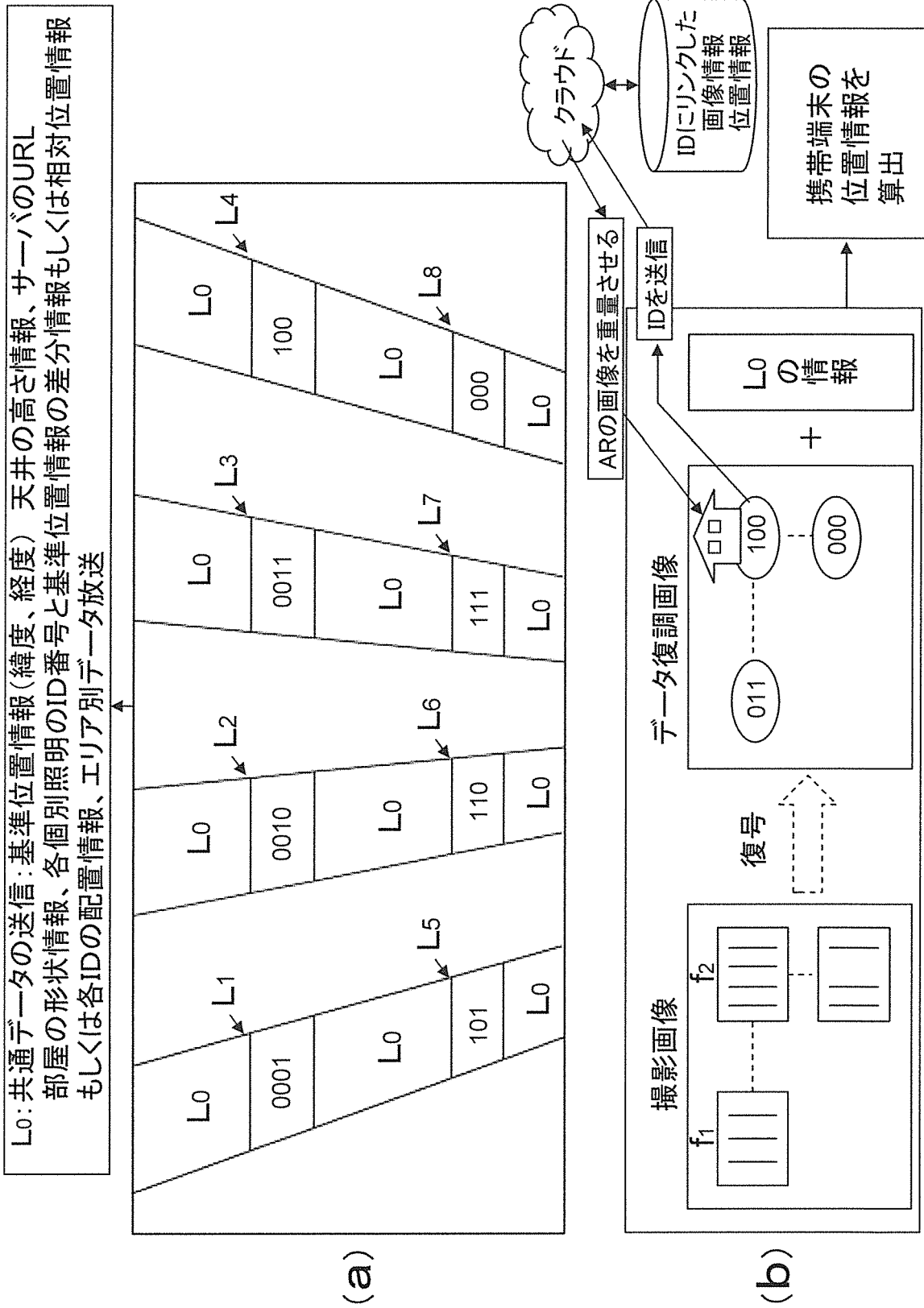
[図109C]



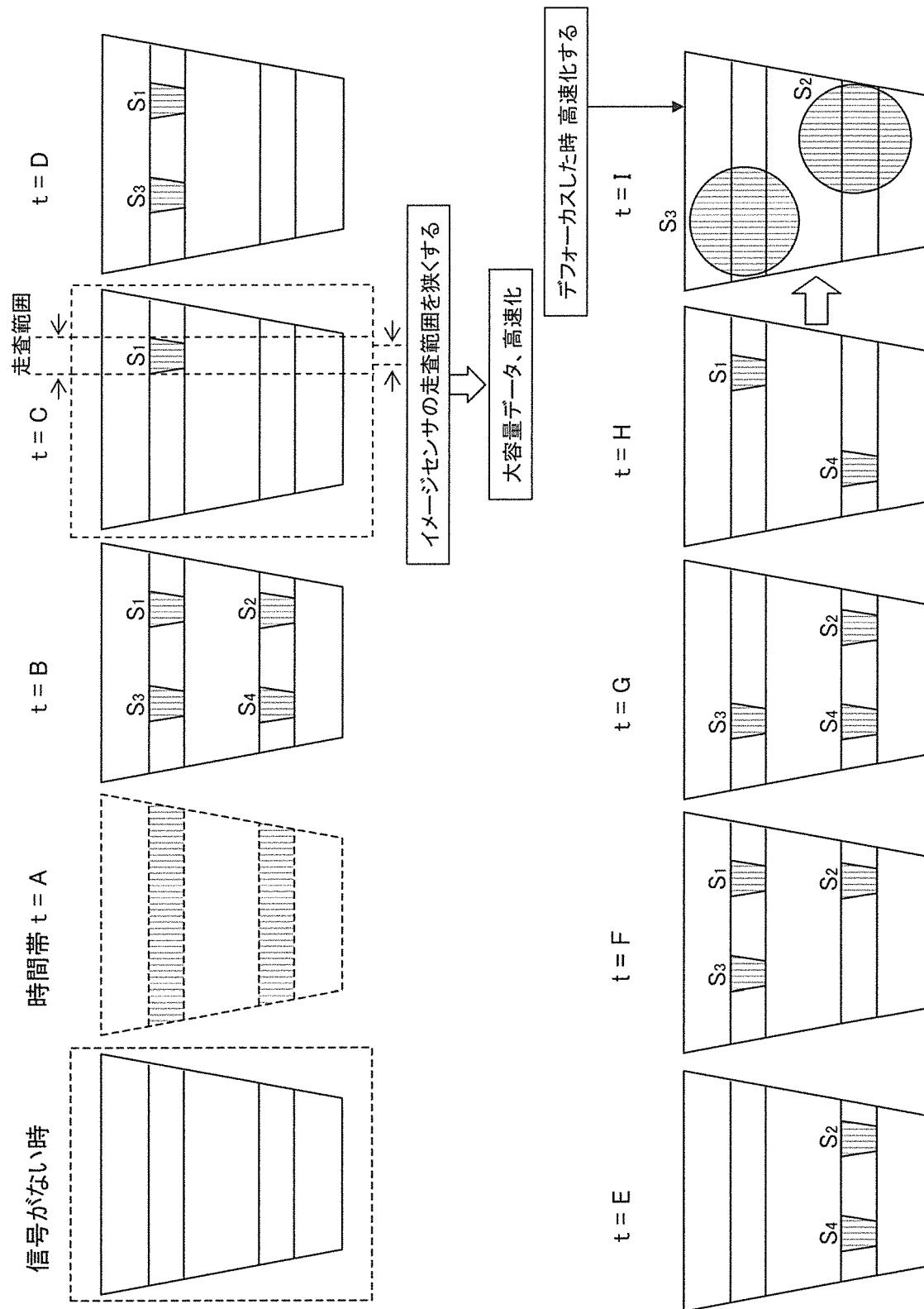
[図110]



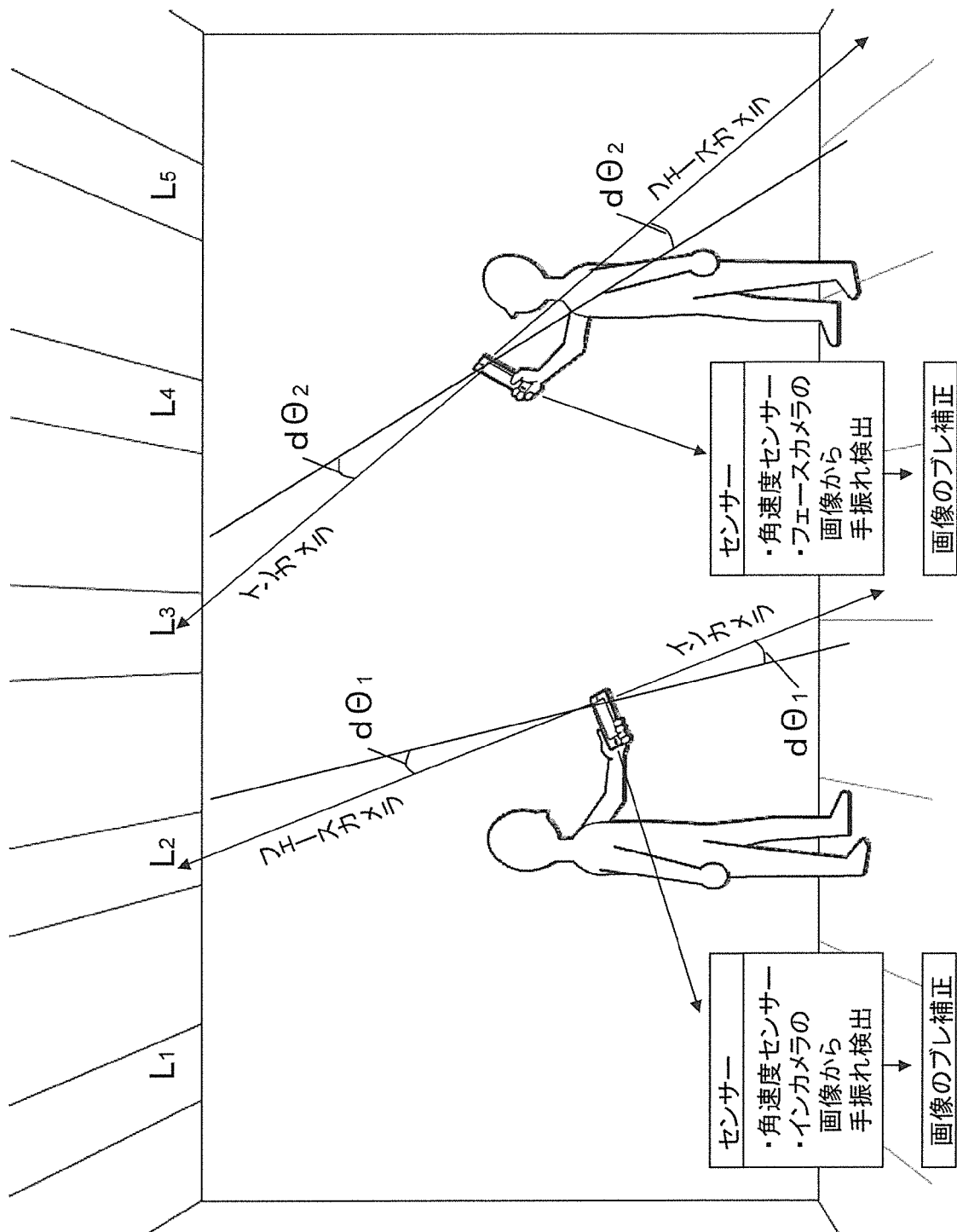
[図111]

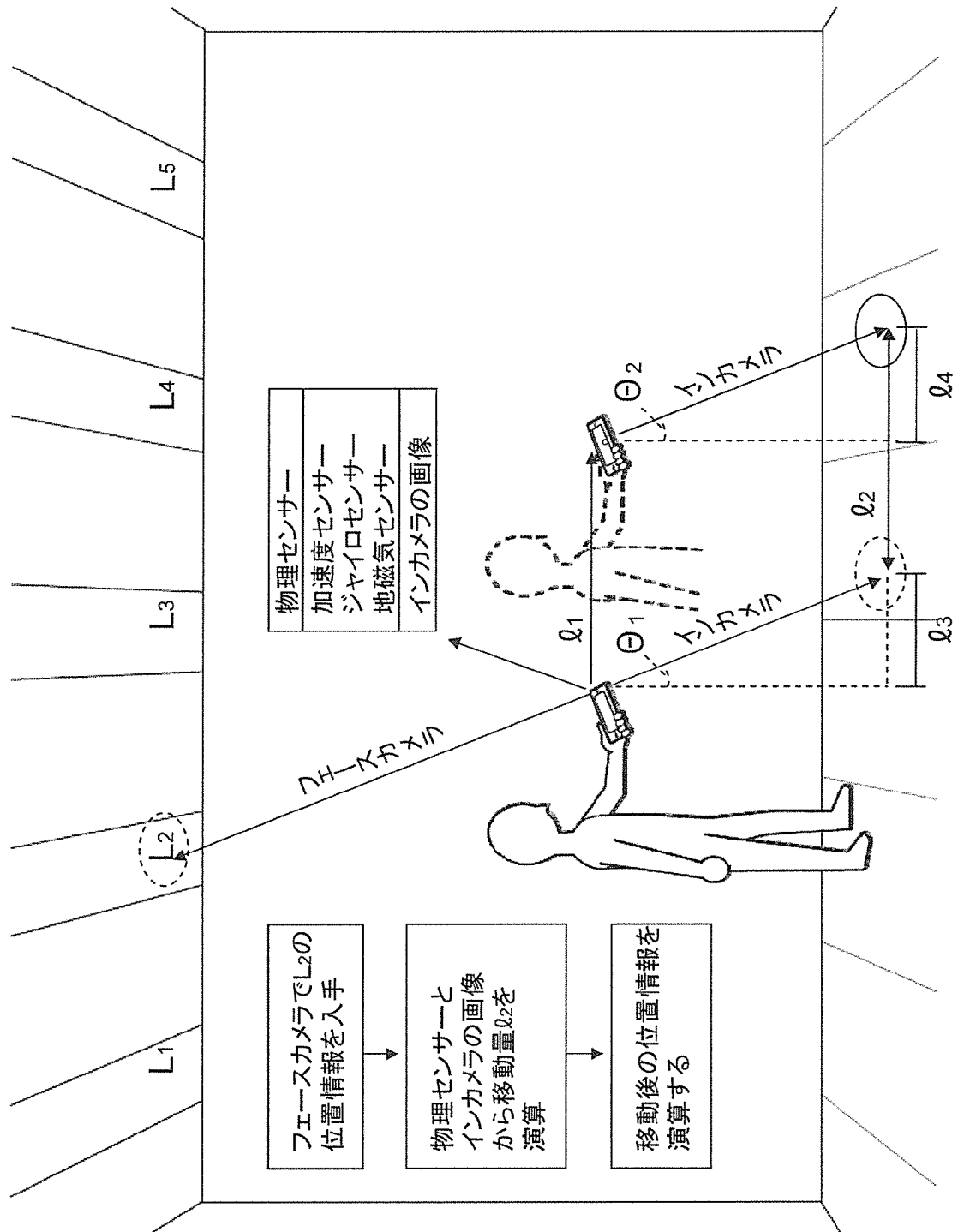


[図112]

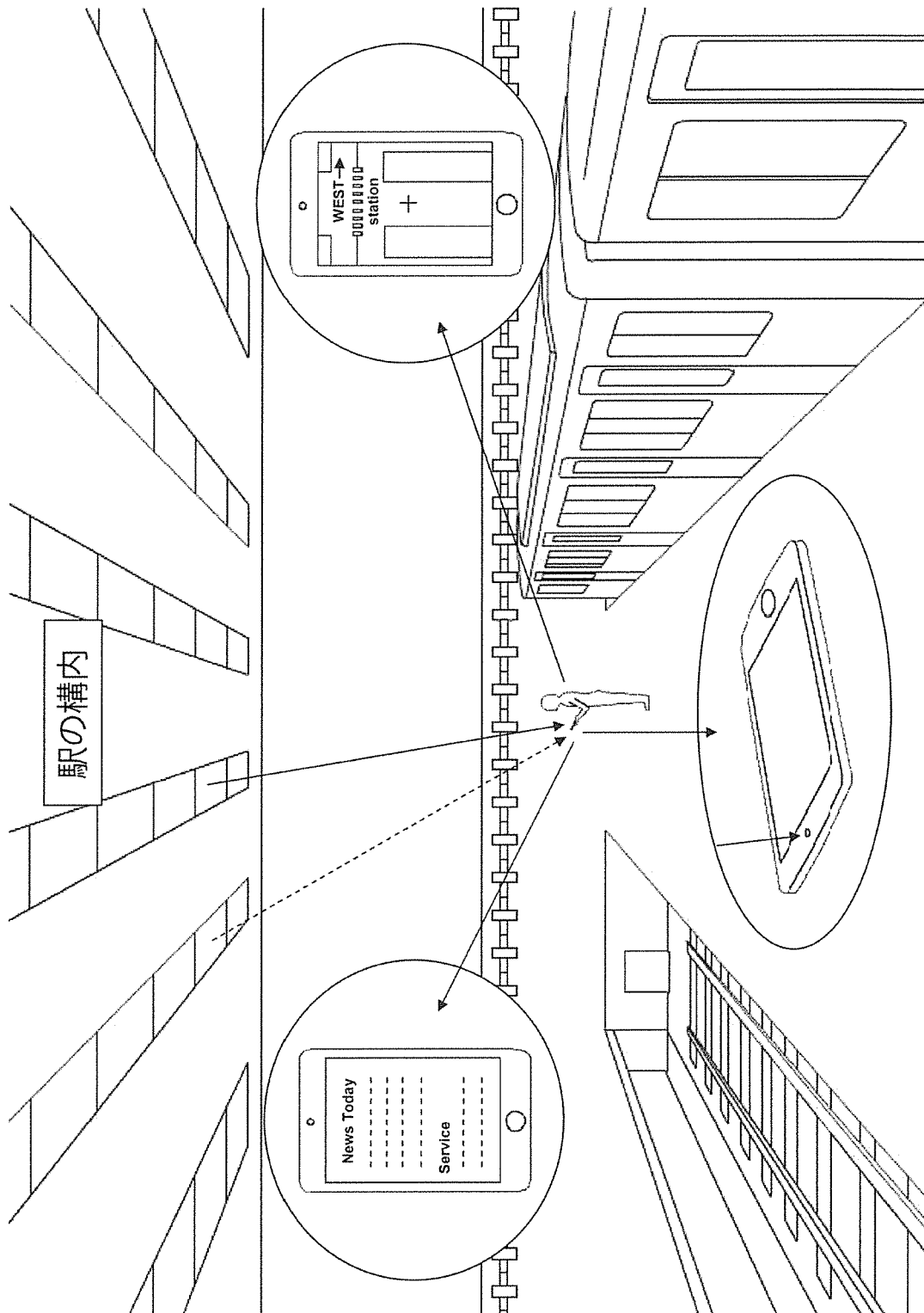


[図113]

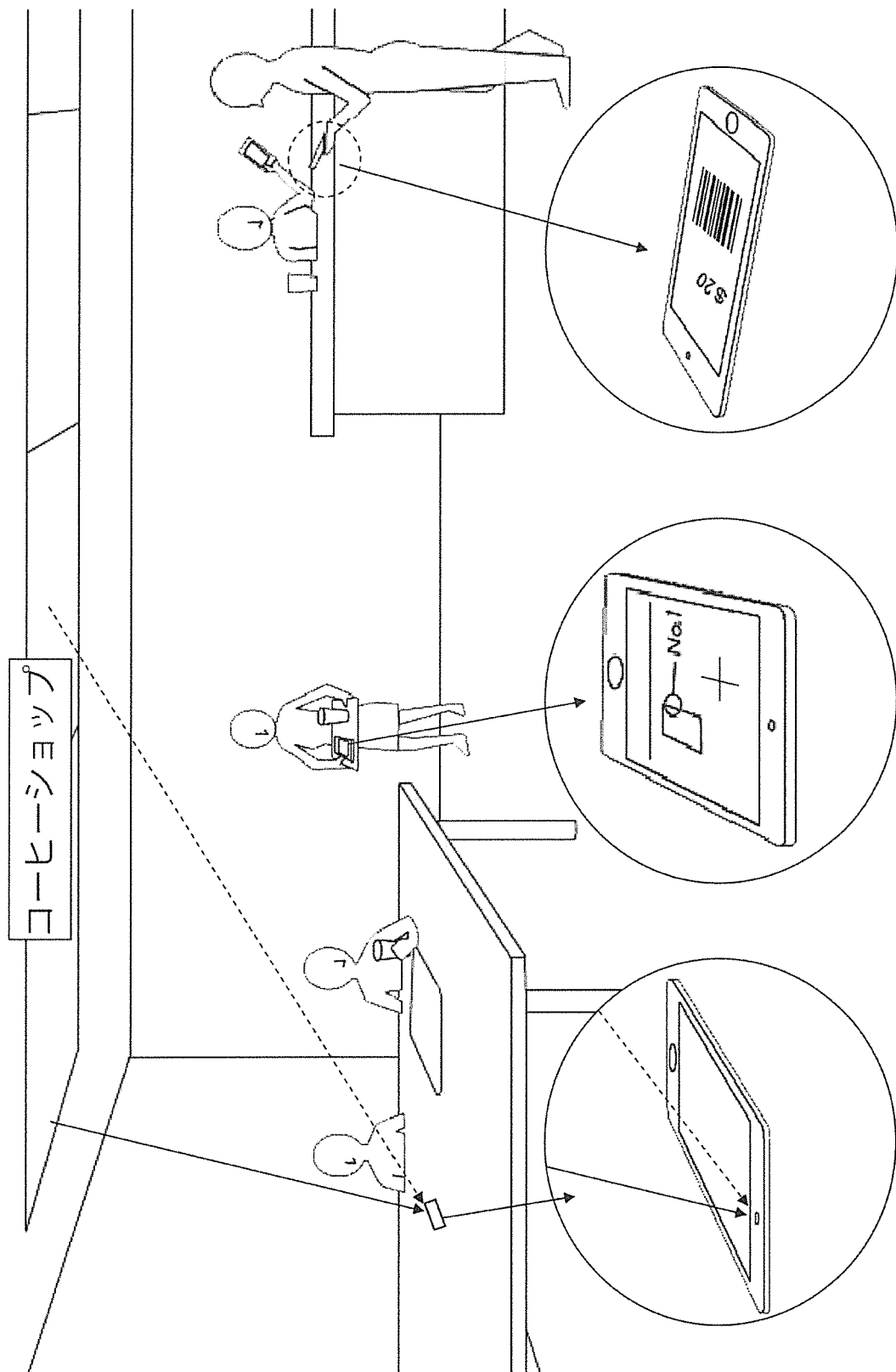




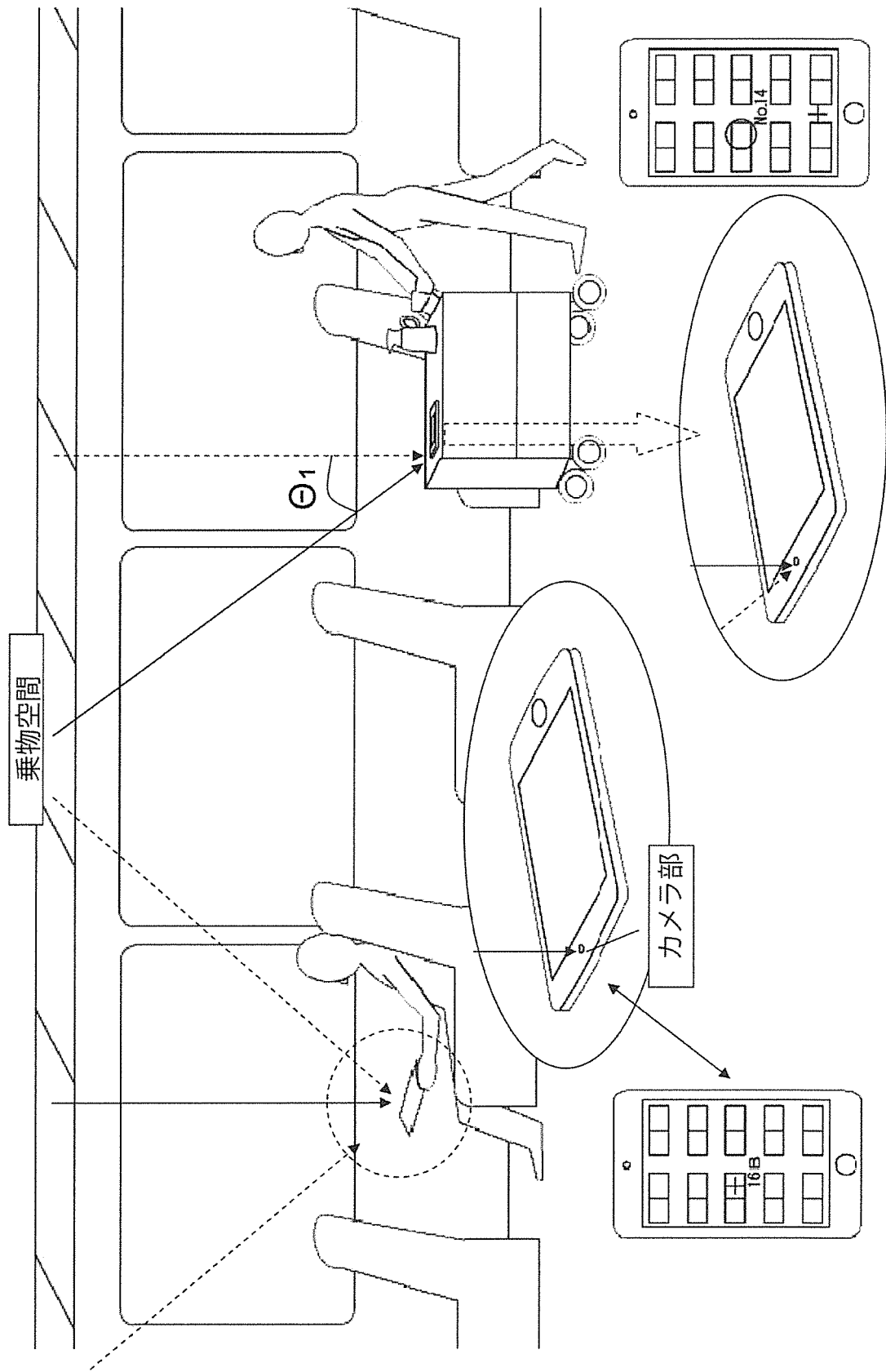
[図115]



[図116]

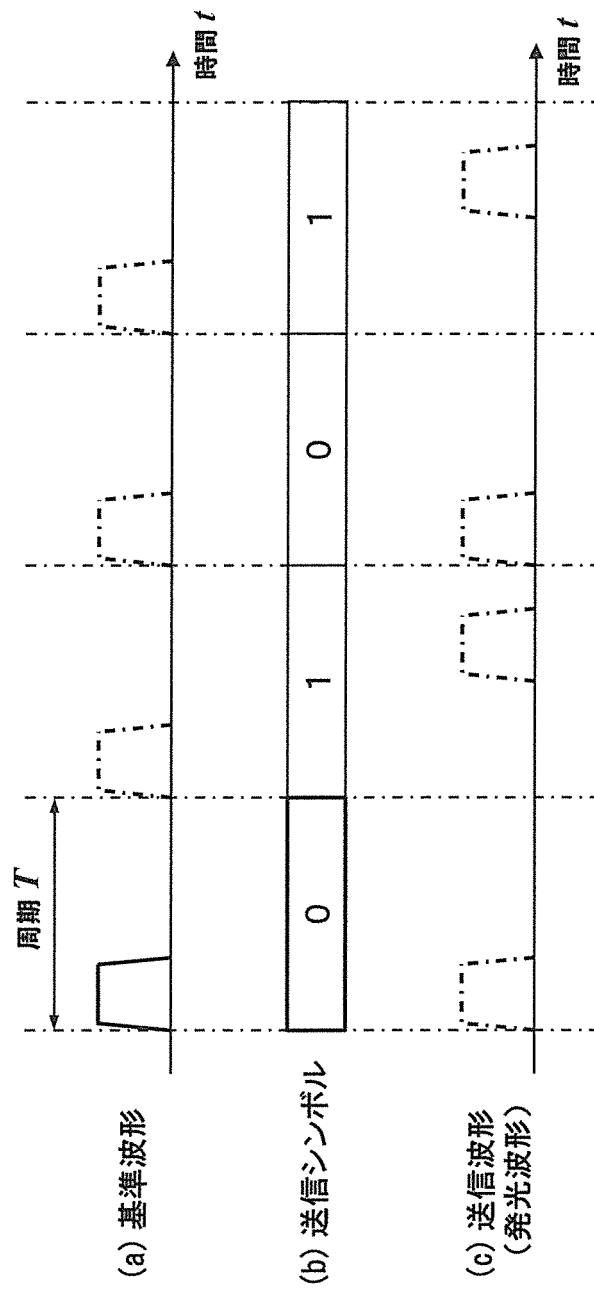


[図117]



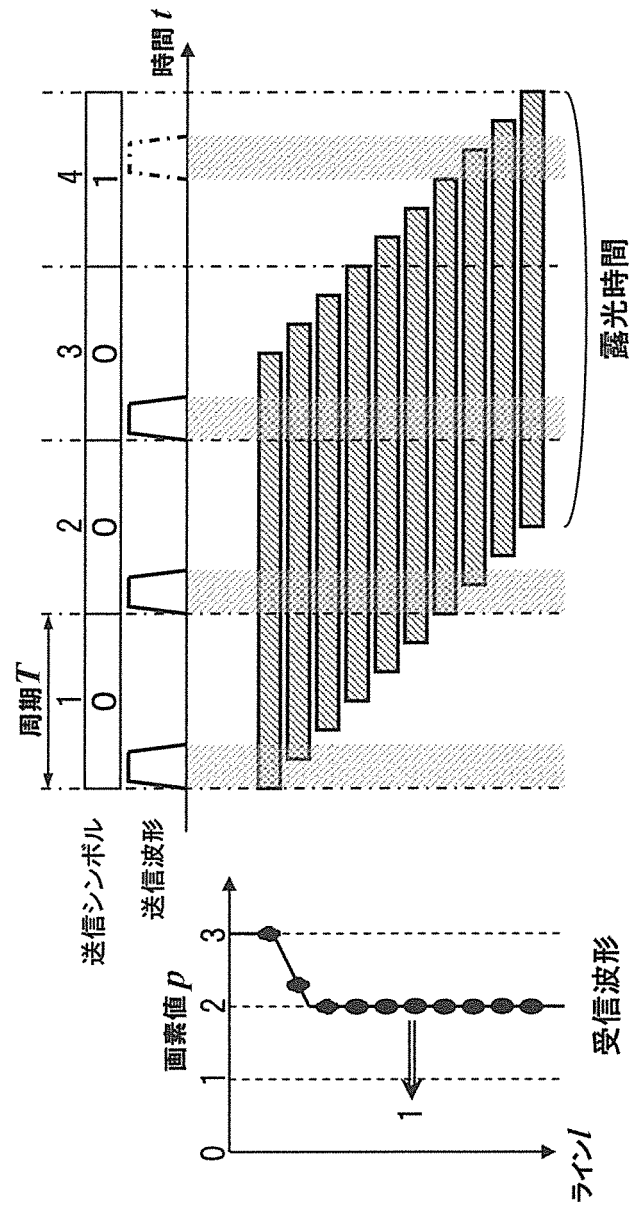
[図118]

1シンボル1bitの場合



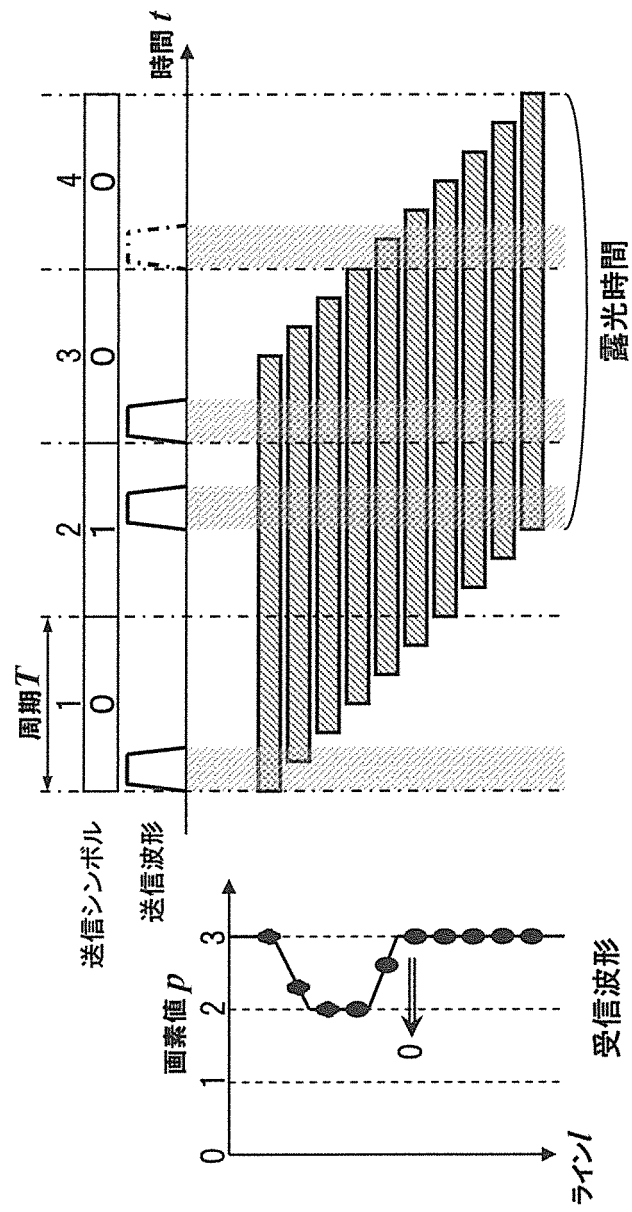
[図120]

シンボル0→1の場合



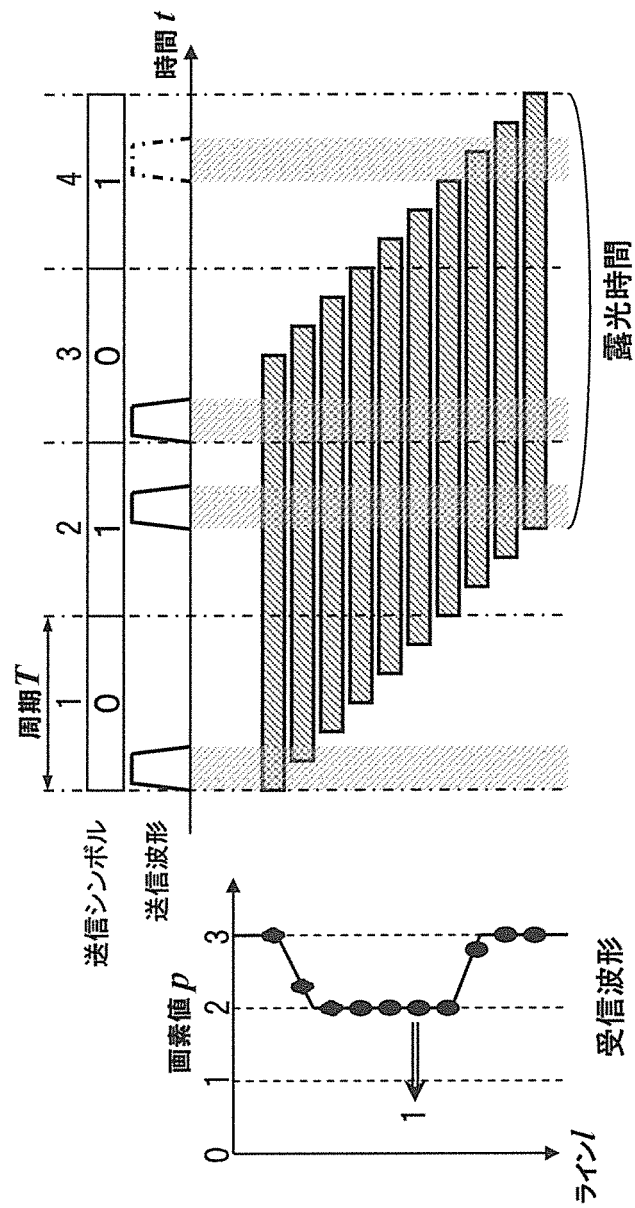
[図121]

シンボル1→0の場合

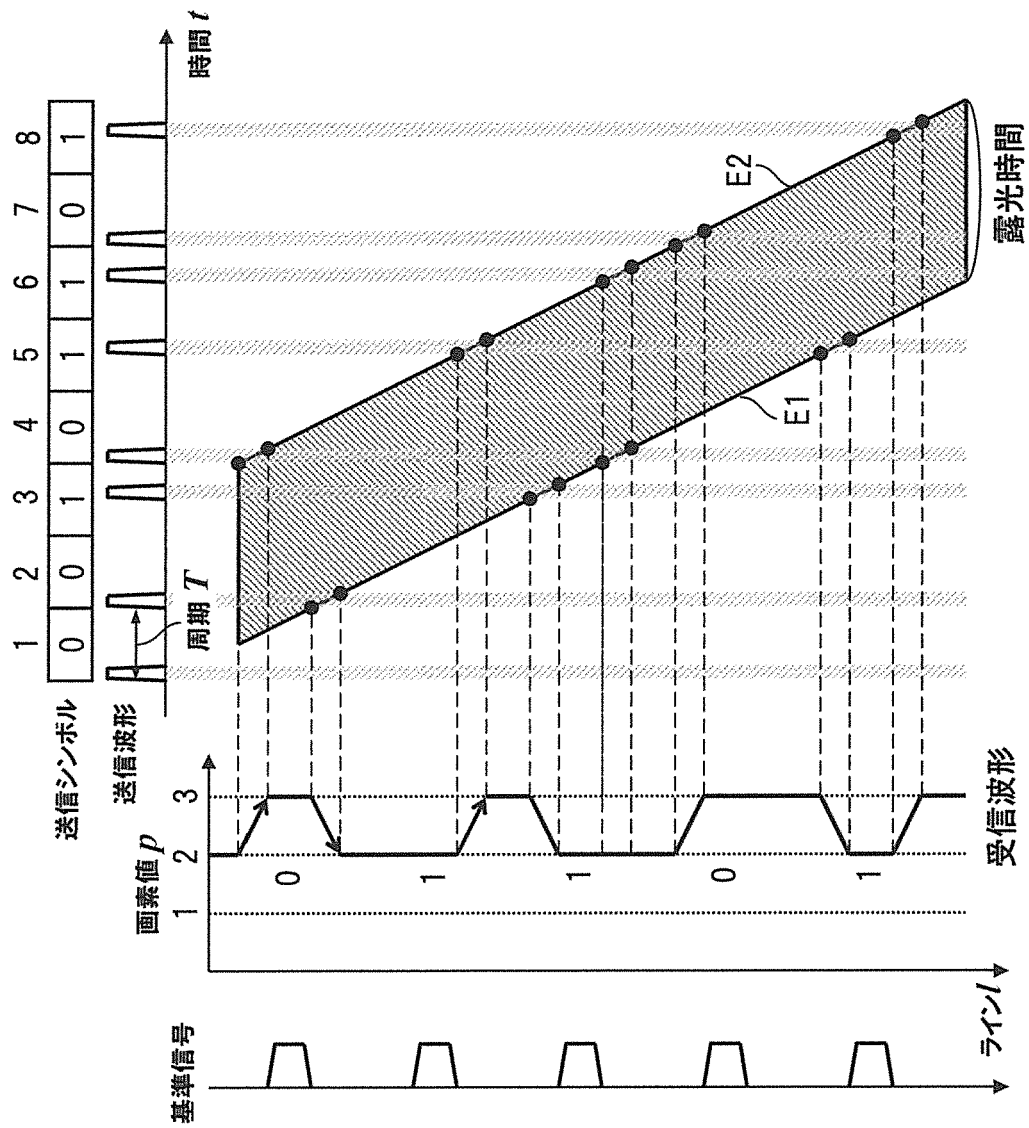


[図122]

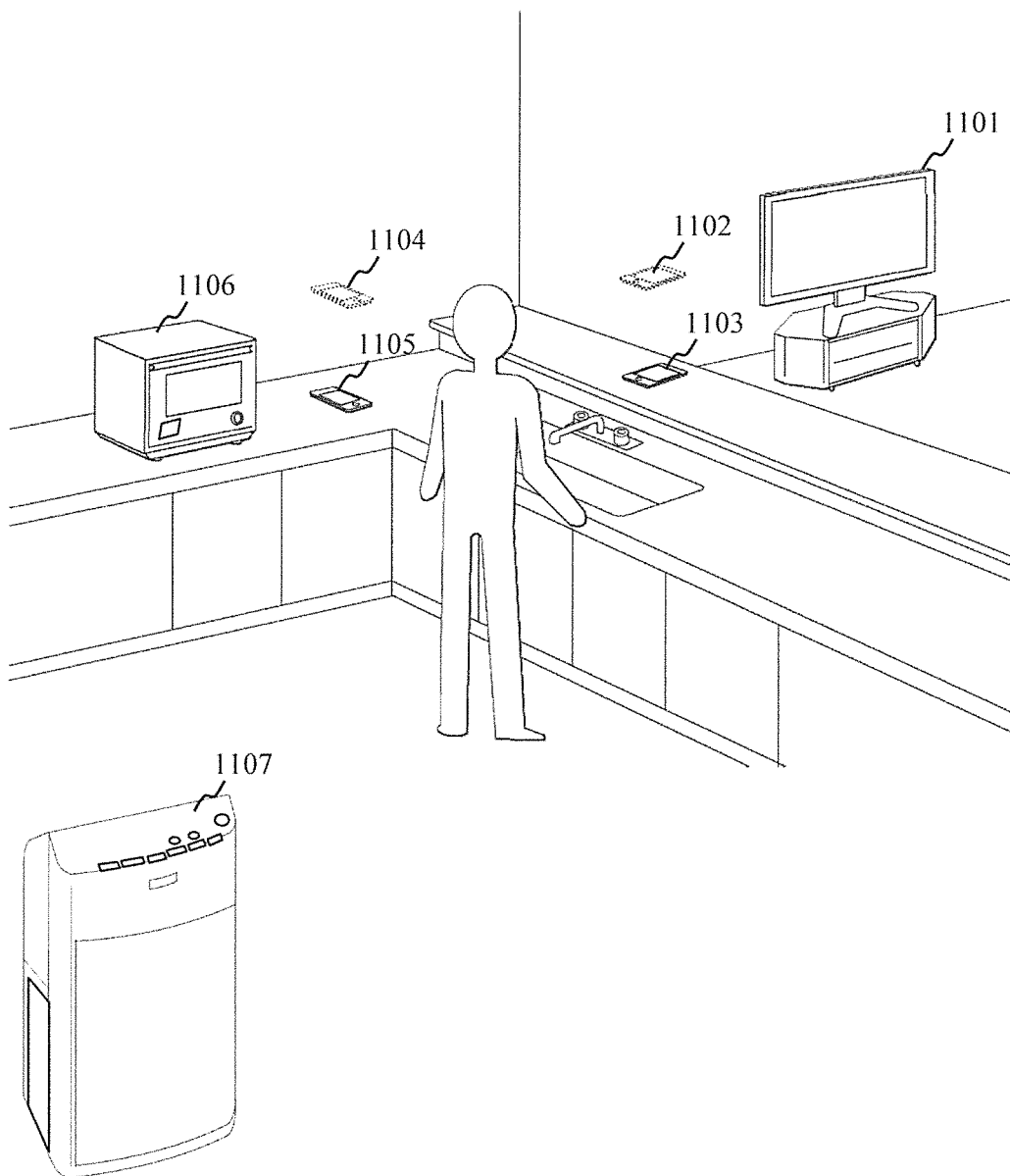
シンボル1→1の場合



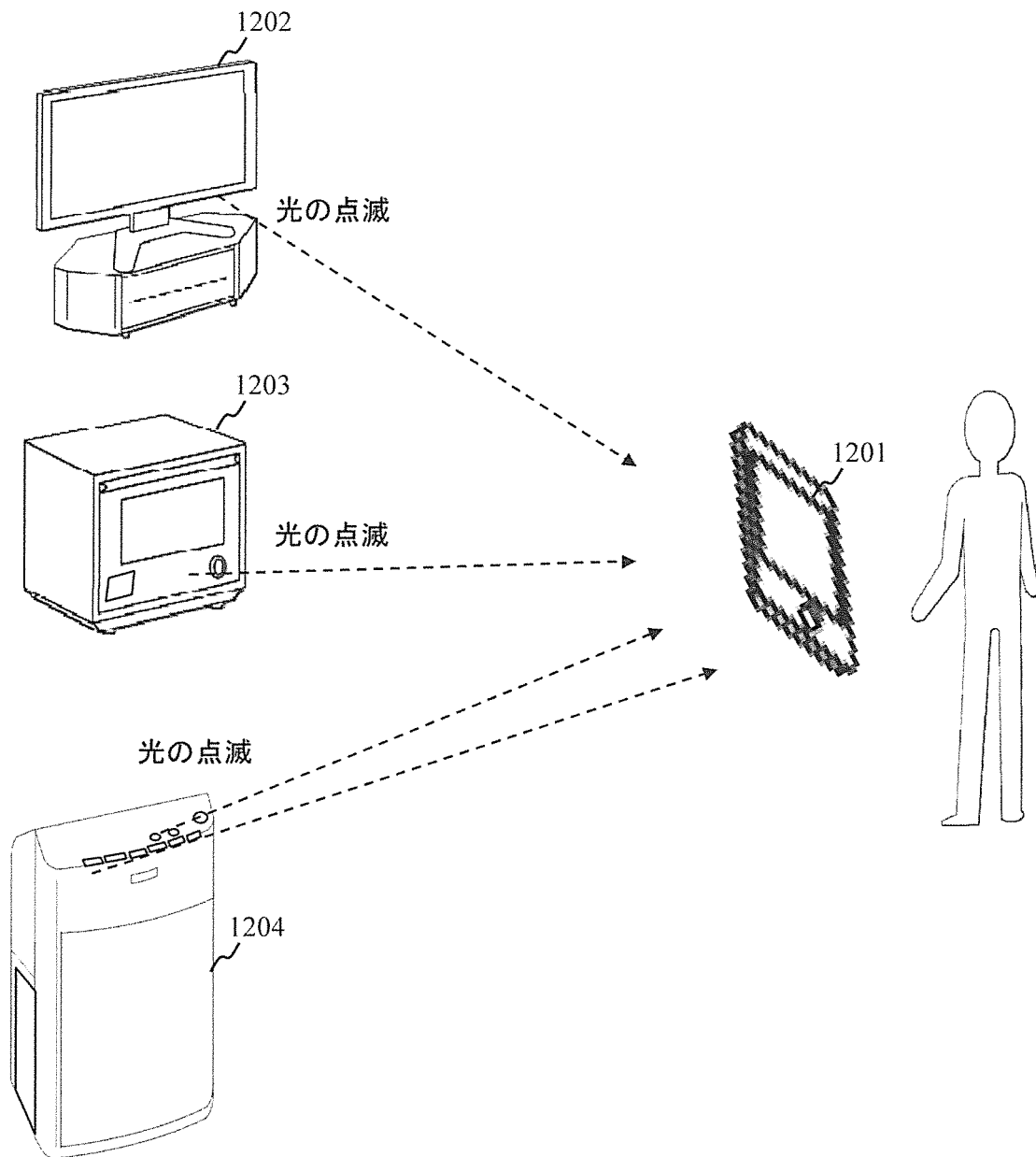
[図123]



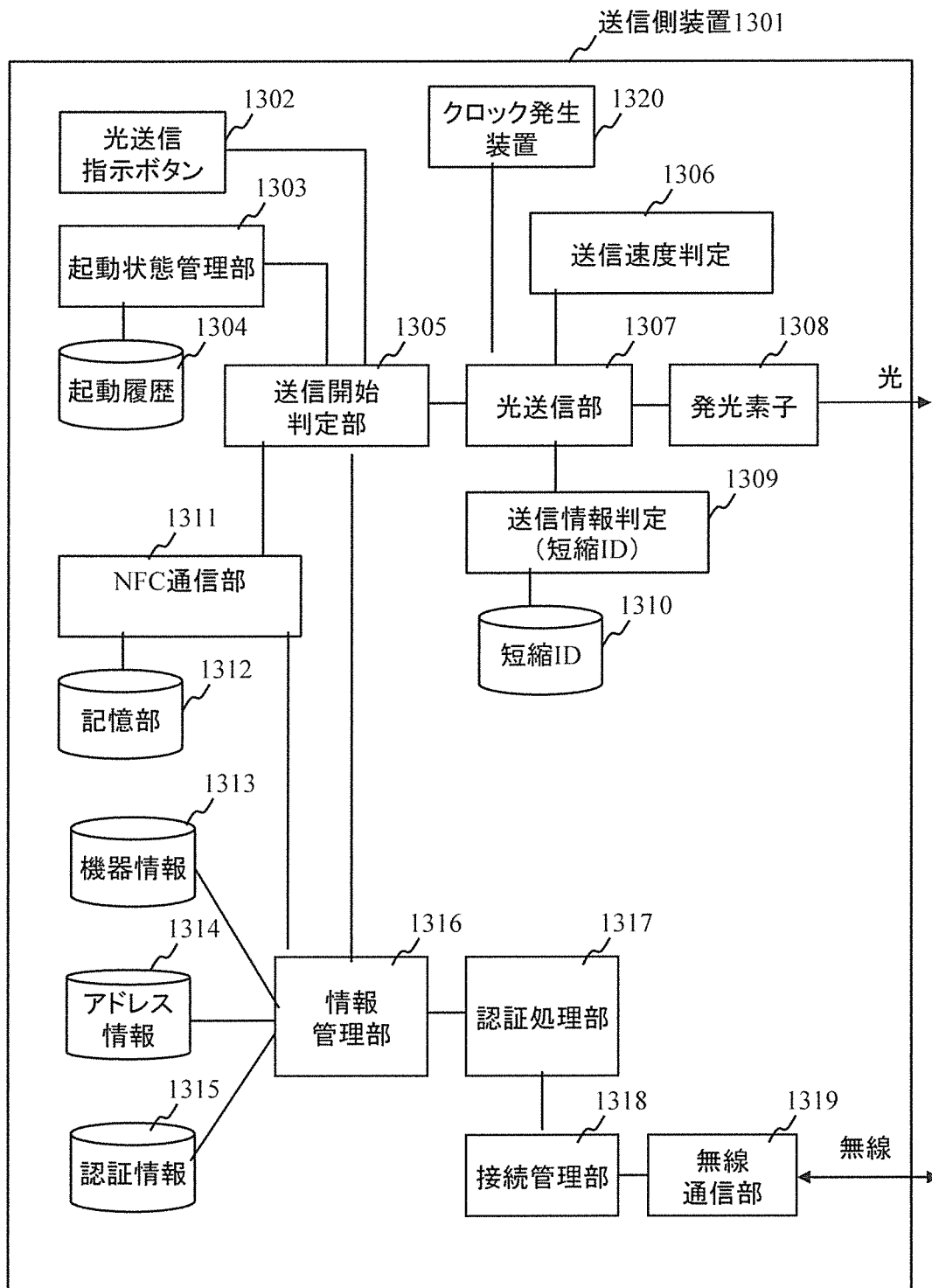
[図124]



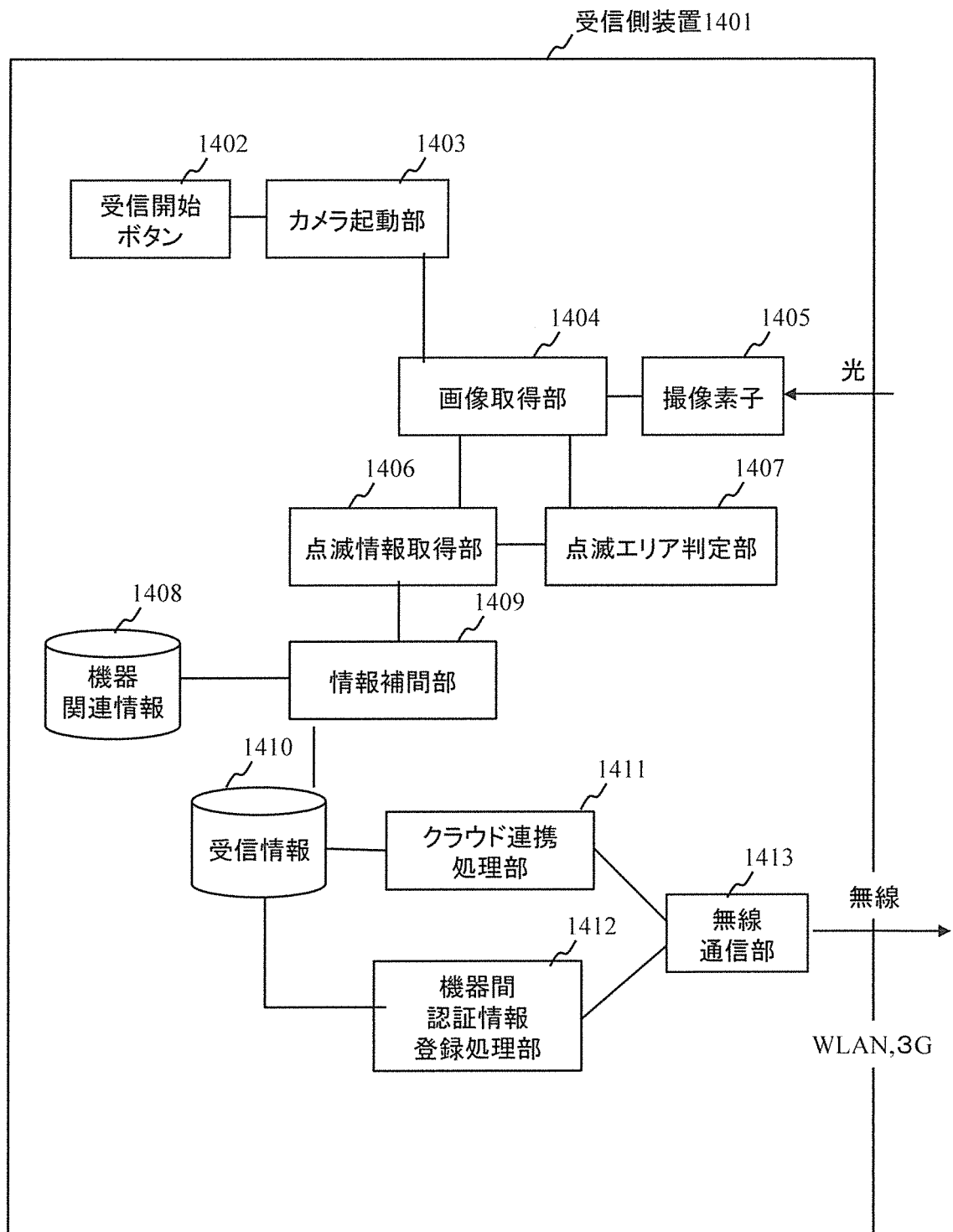
[図125]



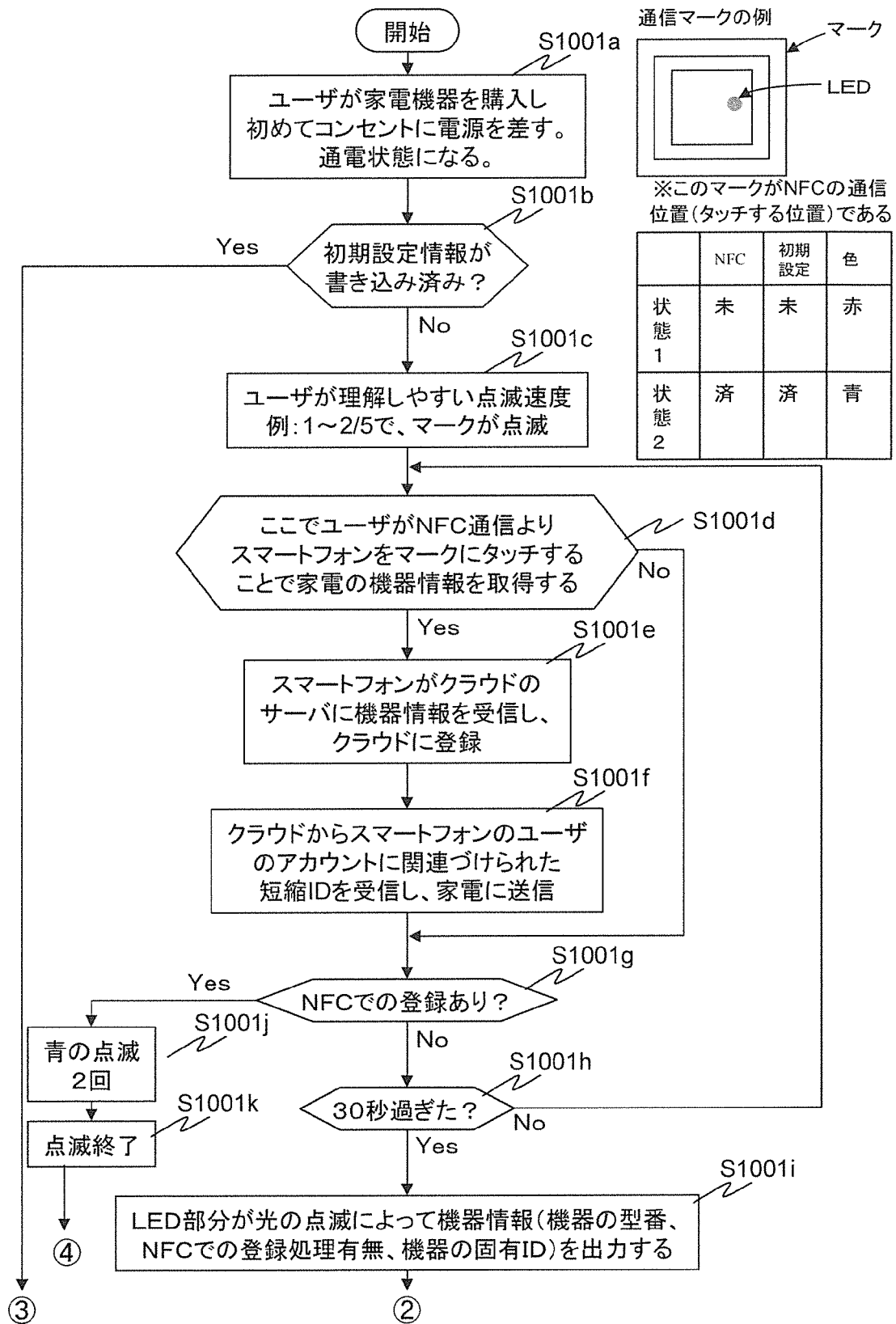
[図126]



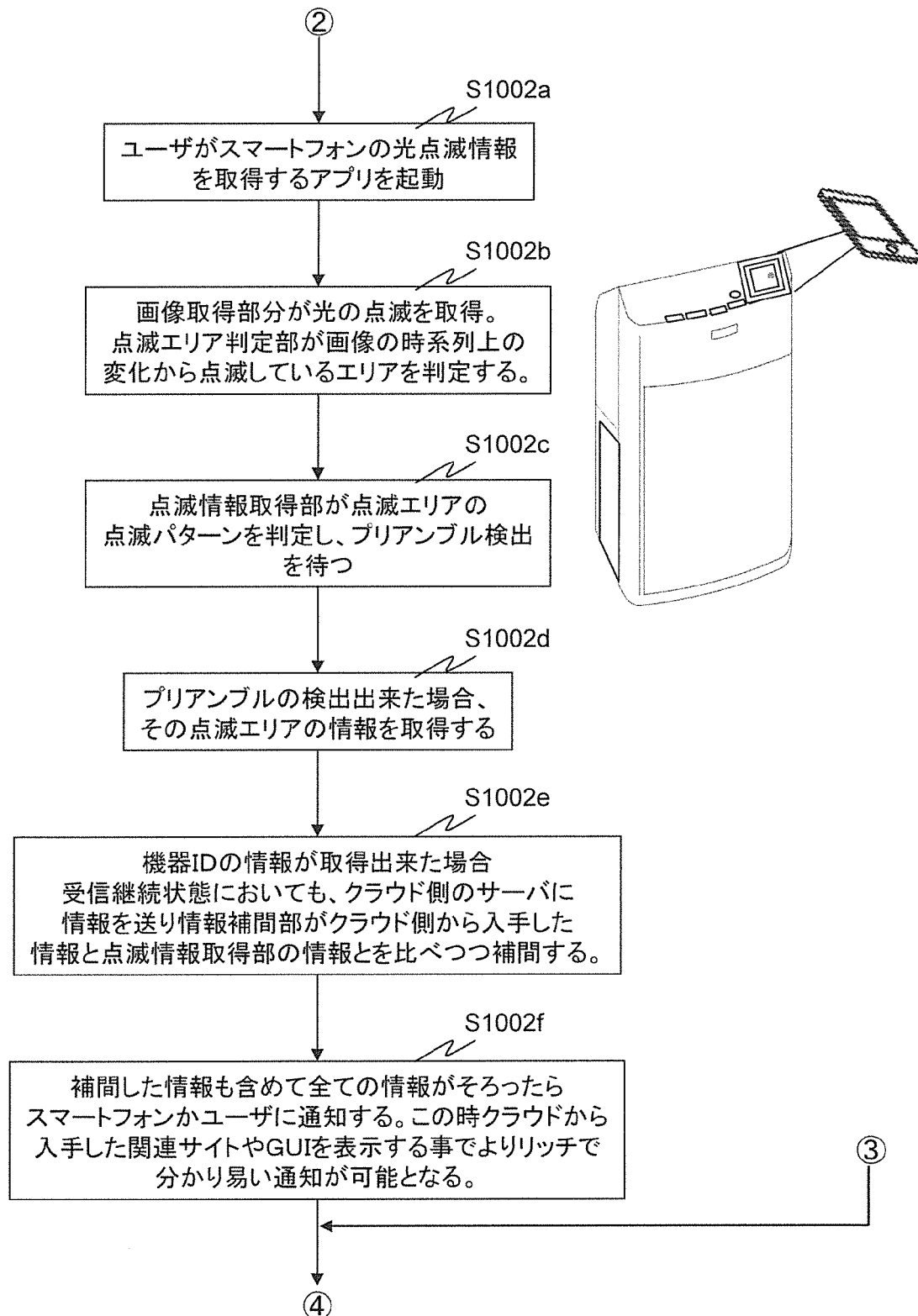
[図127]



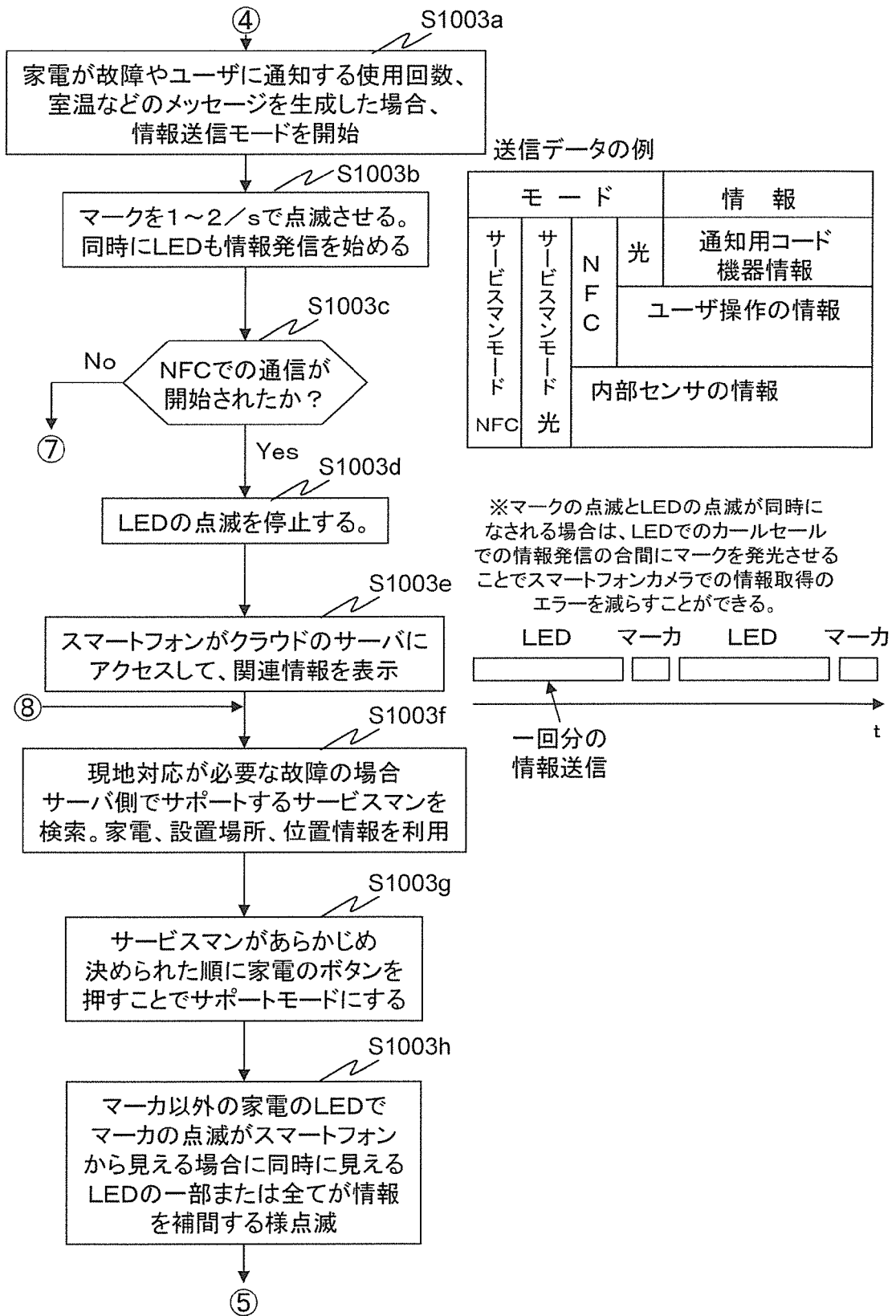
[図128]



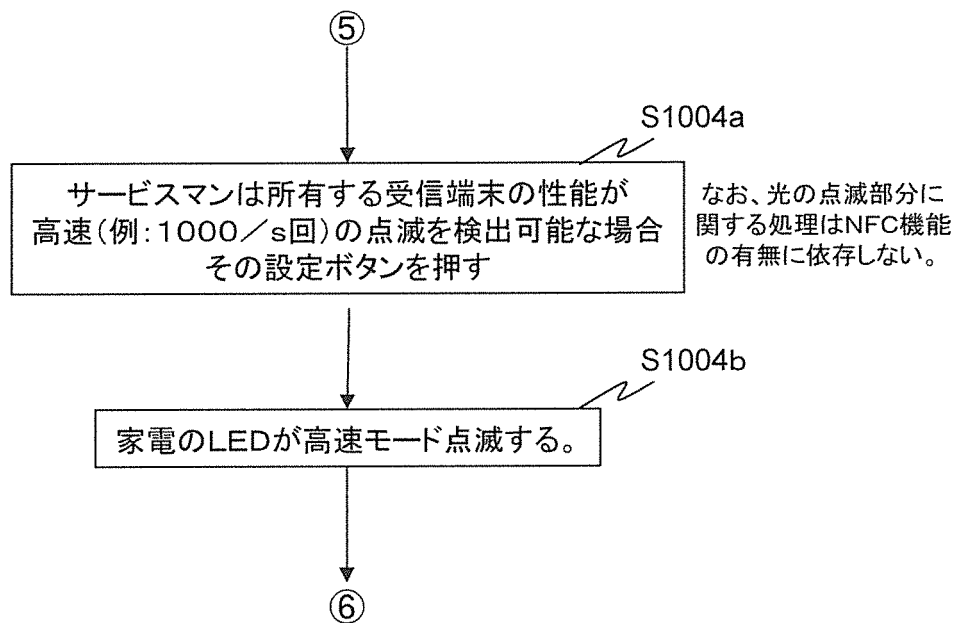
[図129]



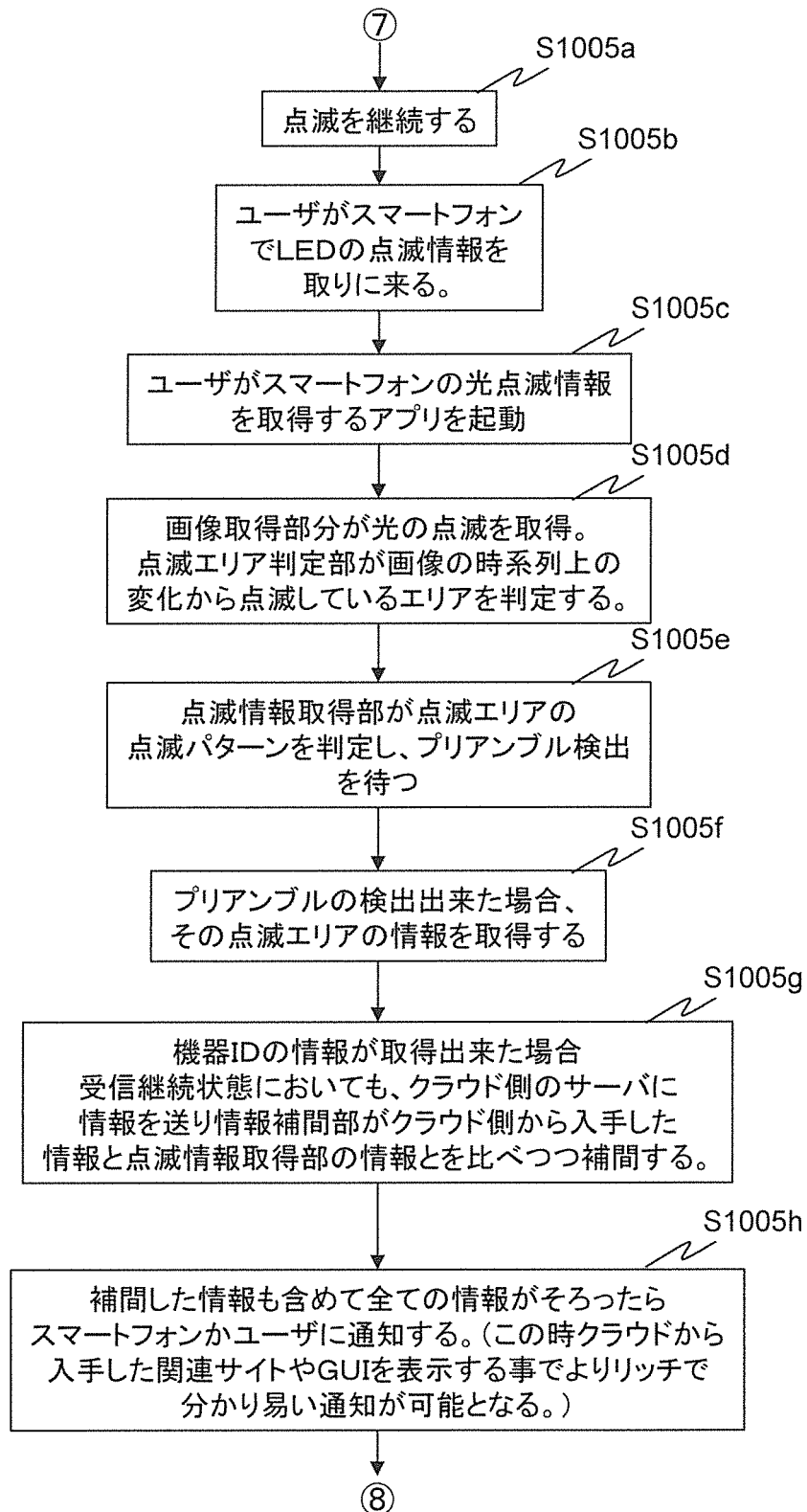
[図130]



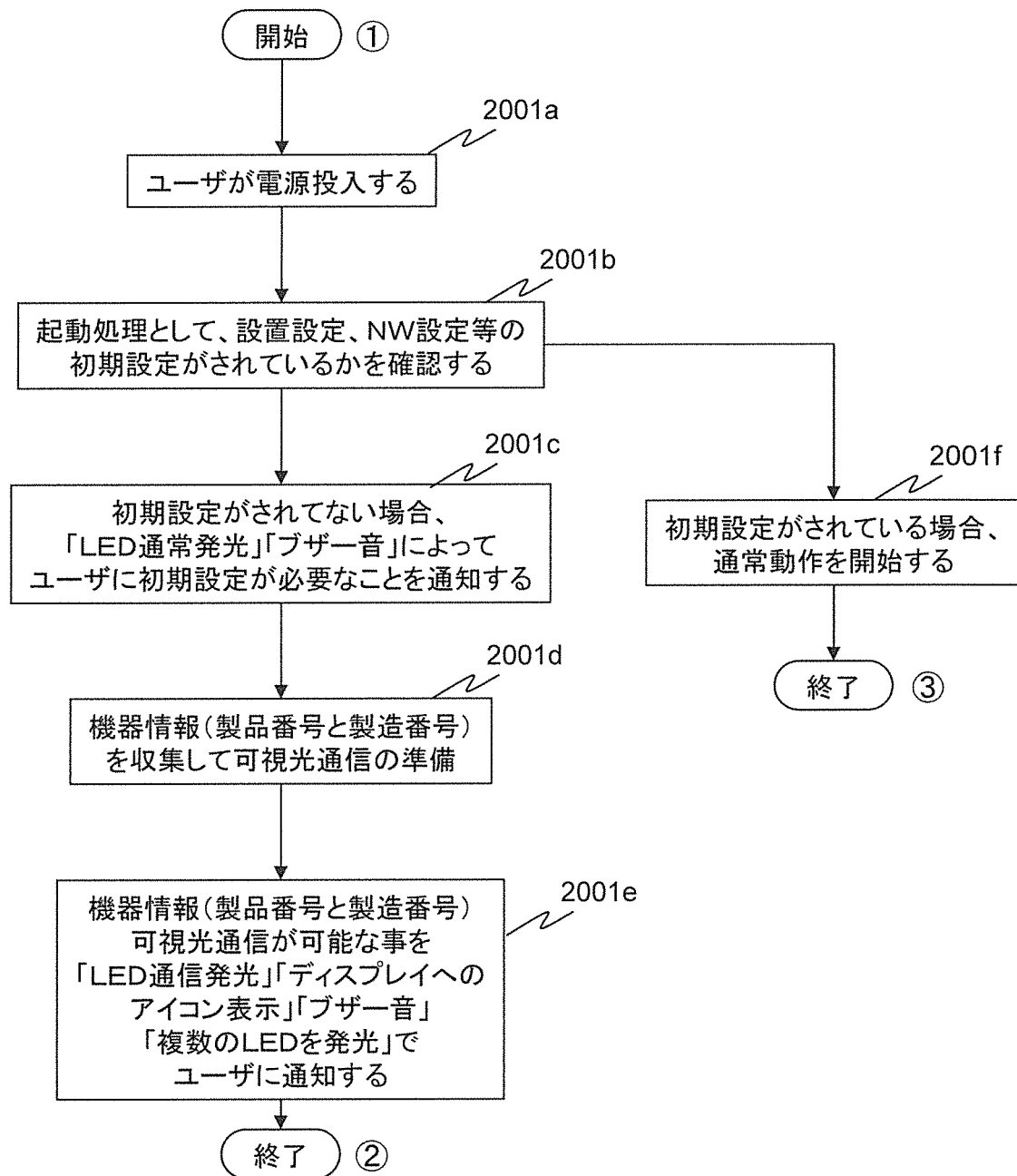
[図131]



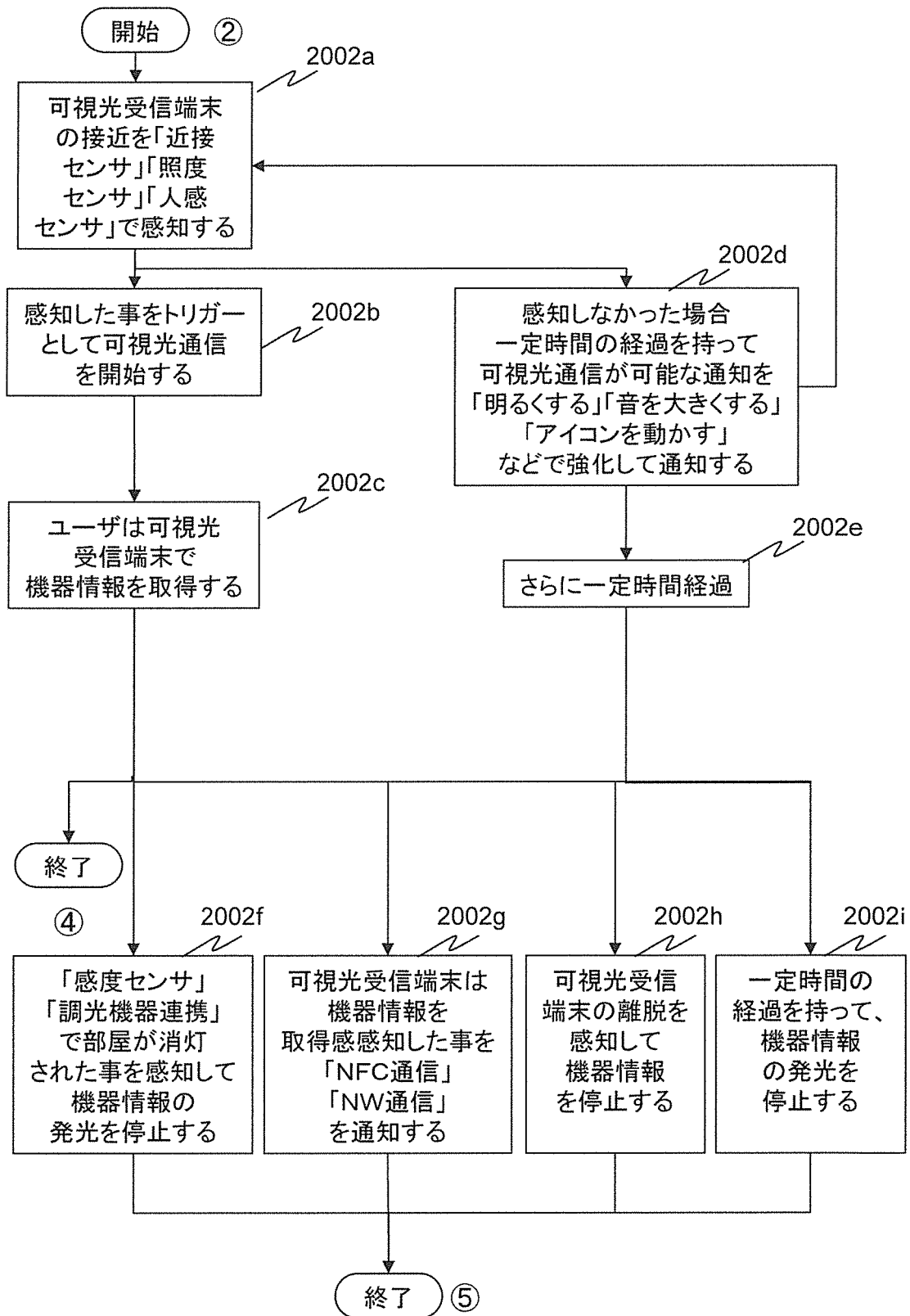
[図132]



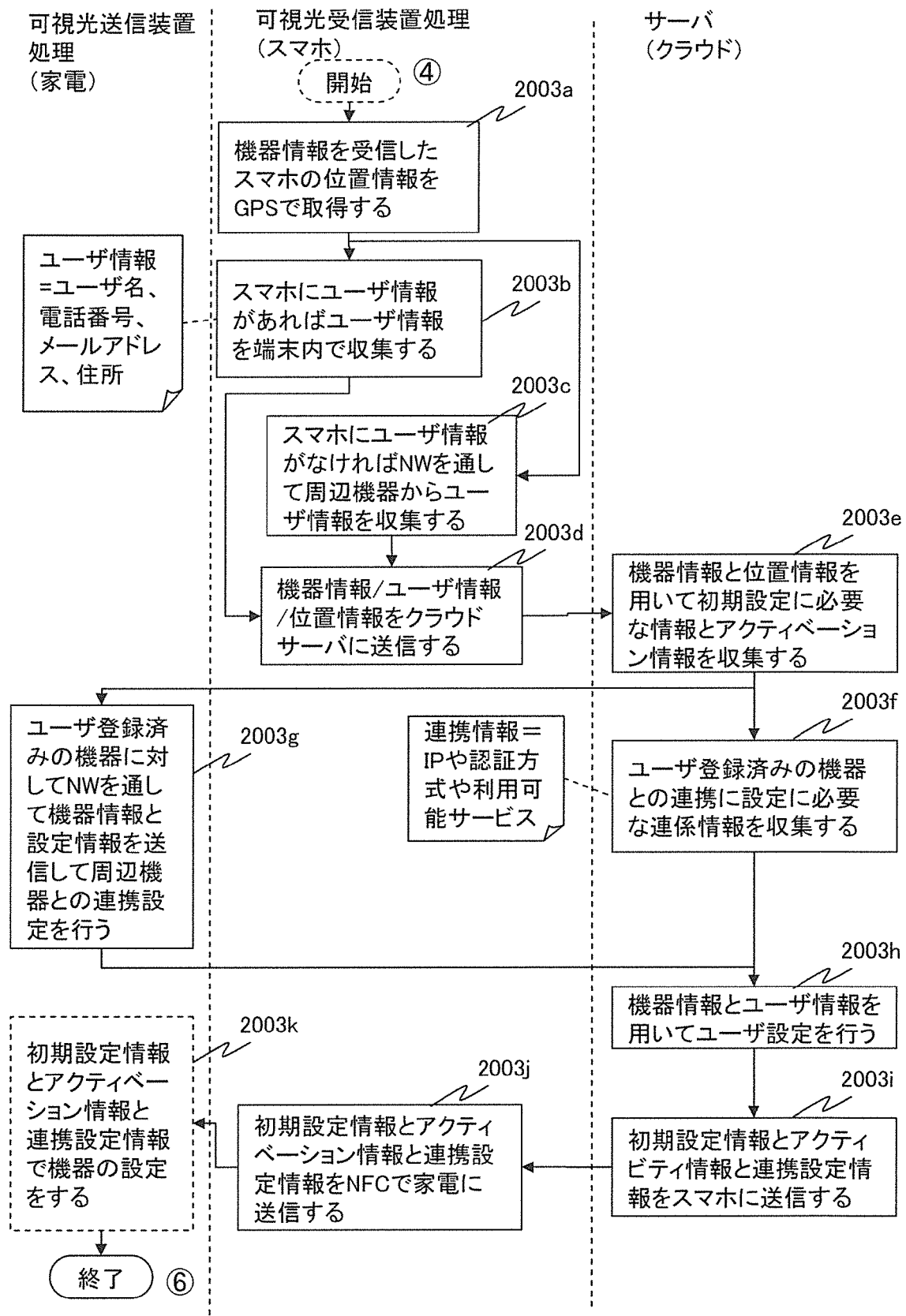
[図133]



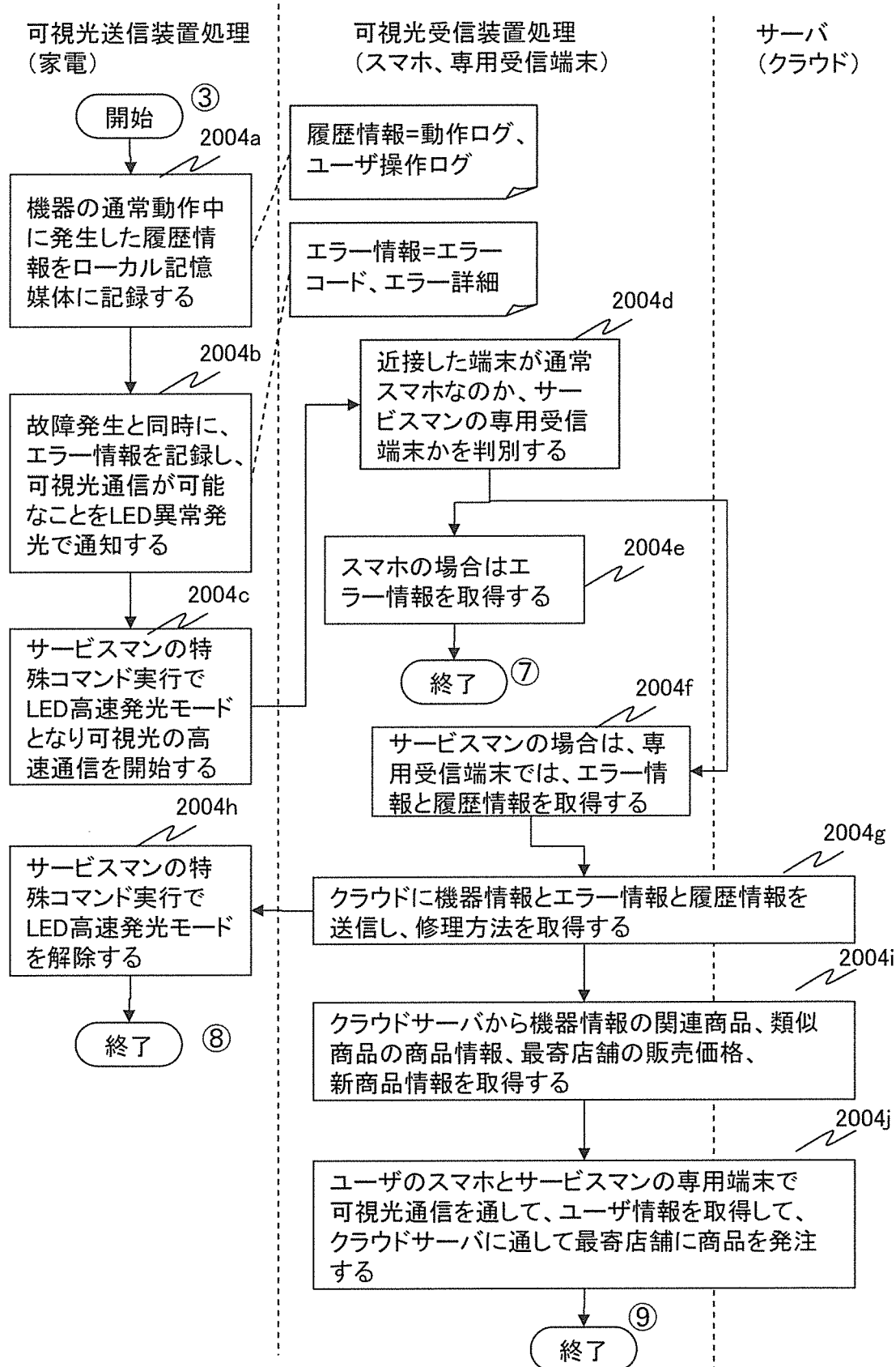
[図134]



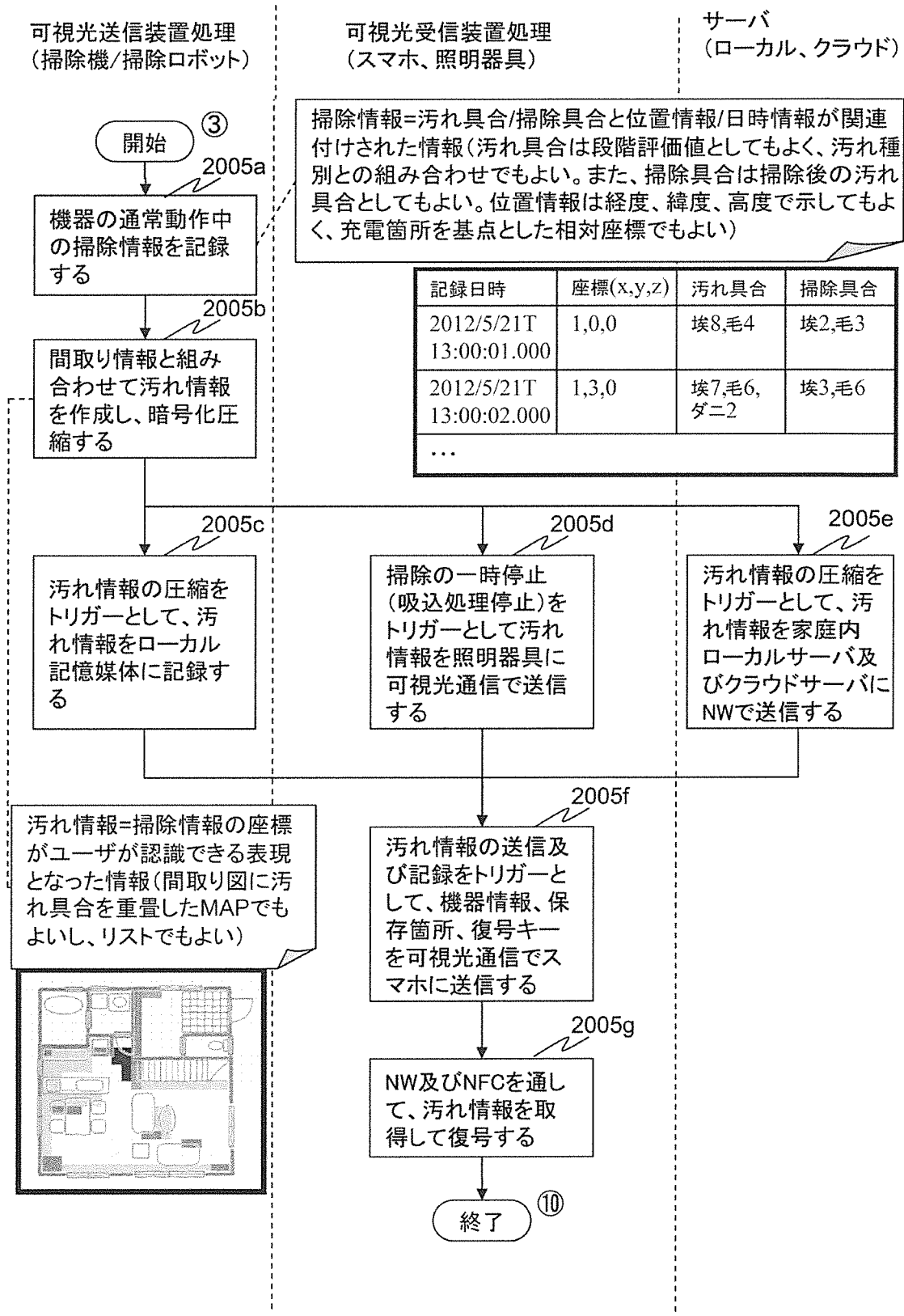
[図135]



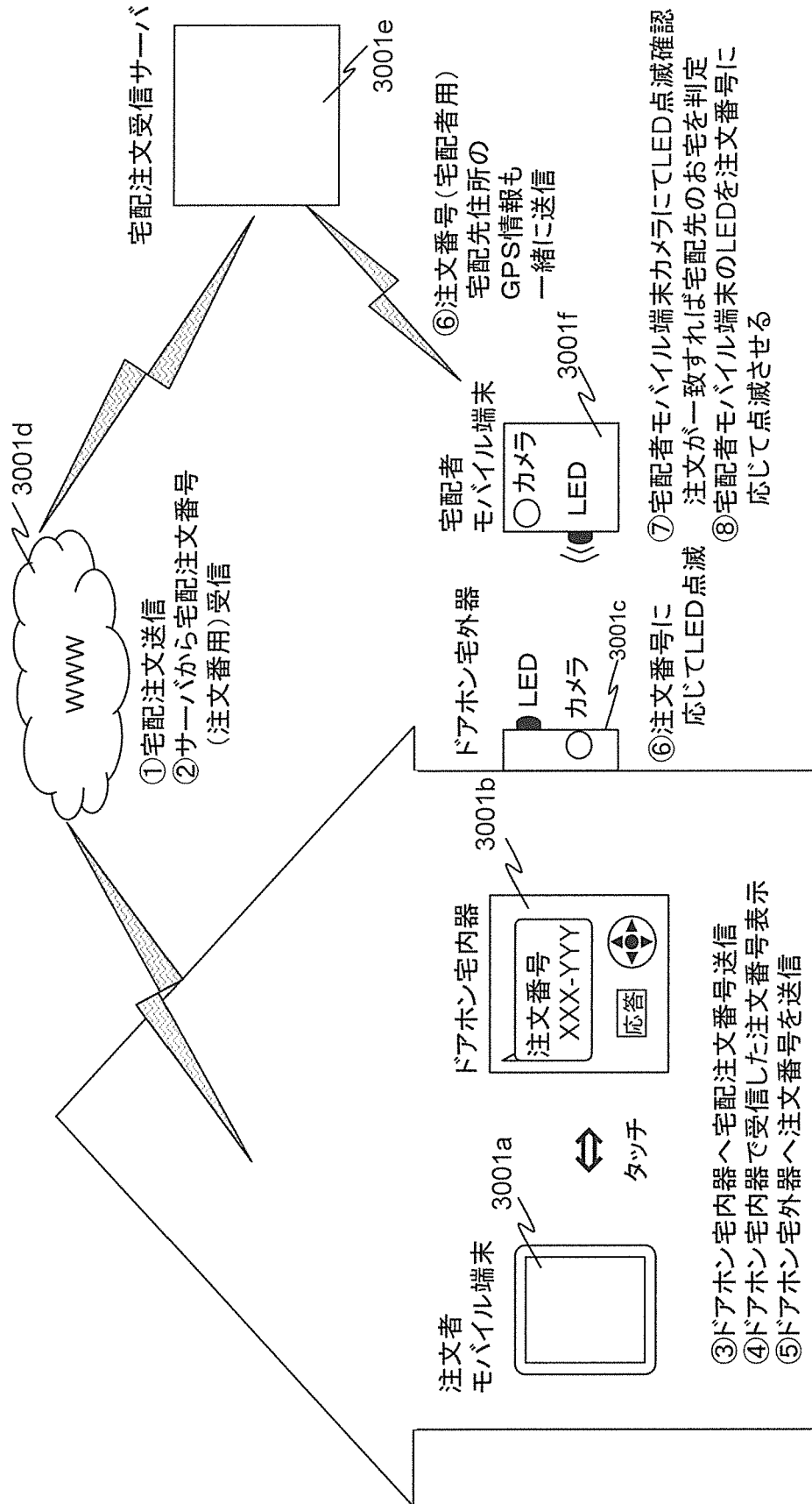
[図136]



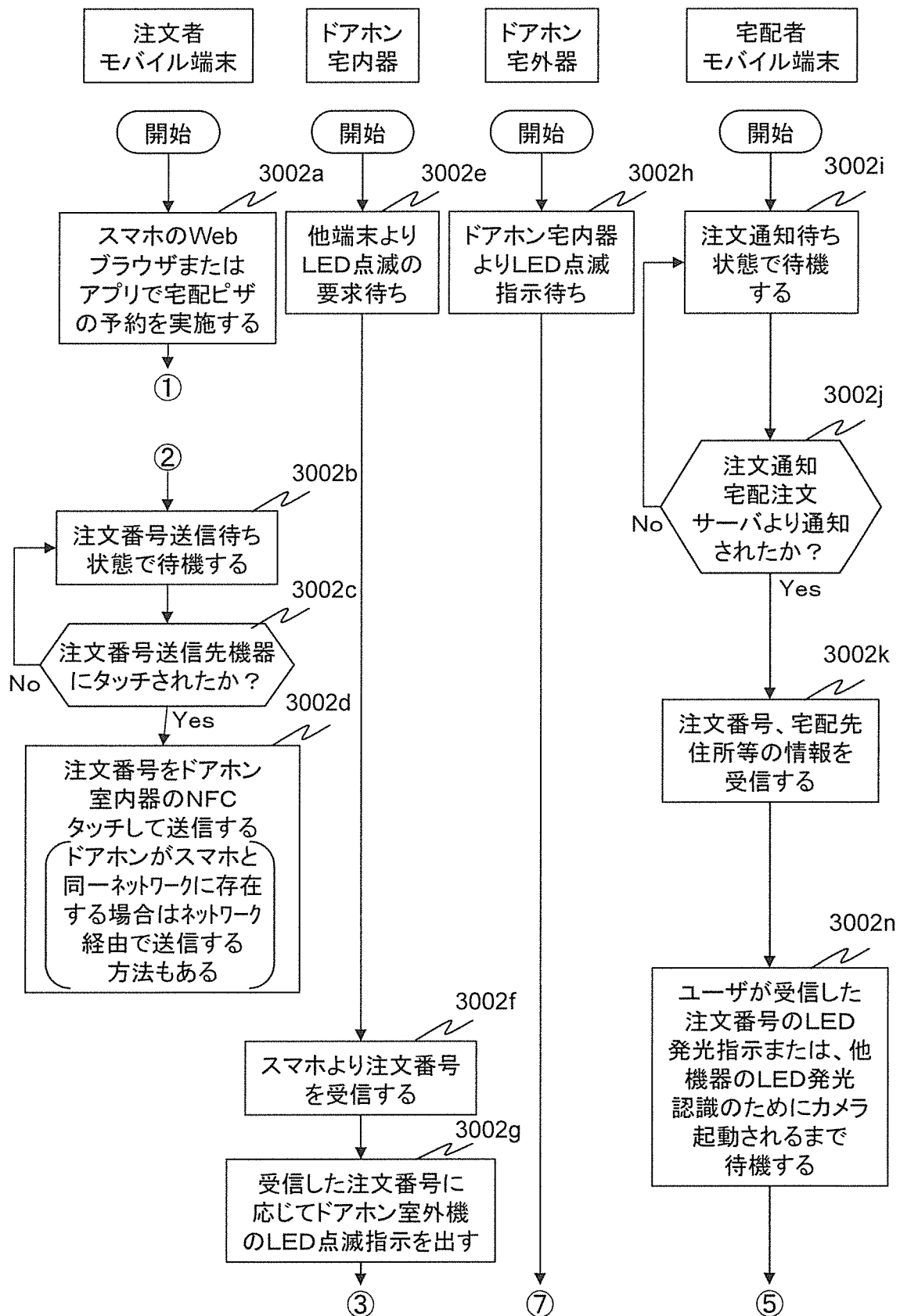
[図137]



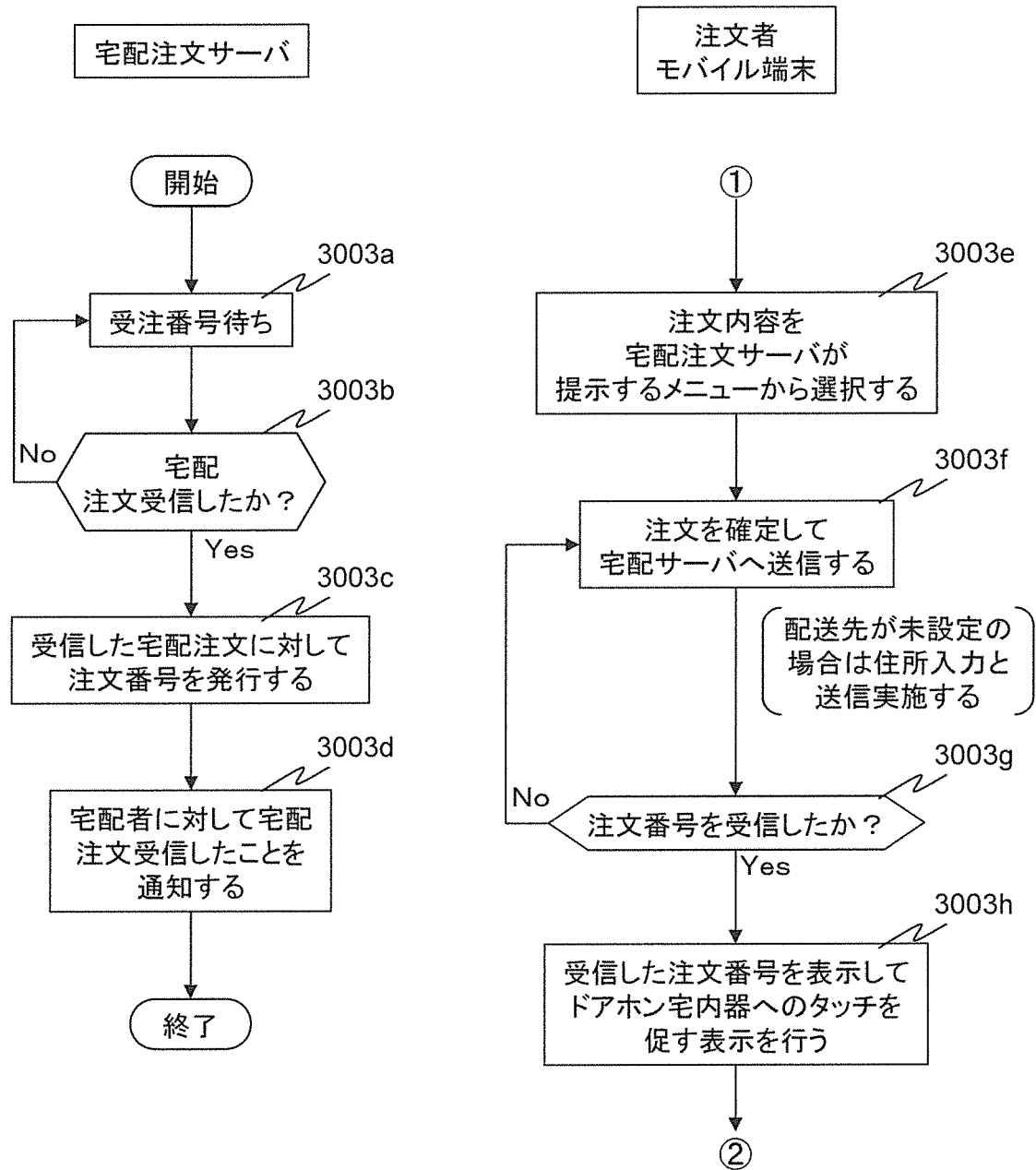
[図138]



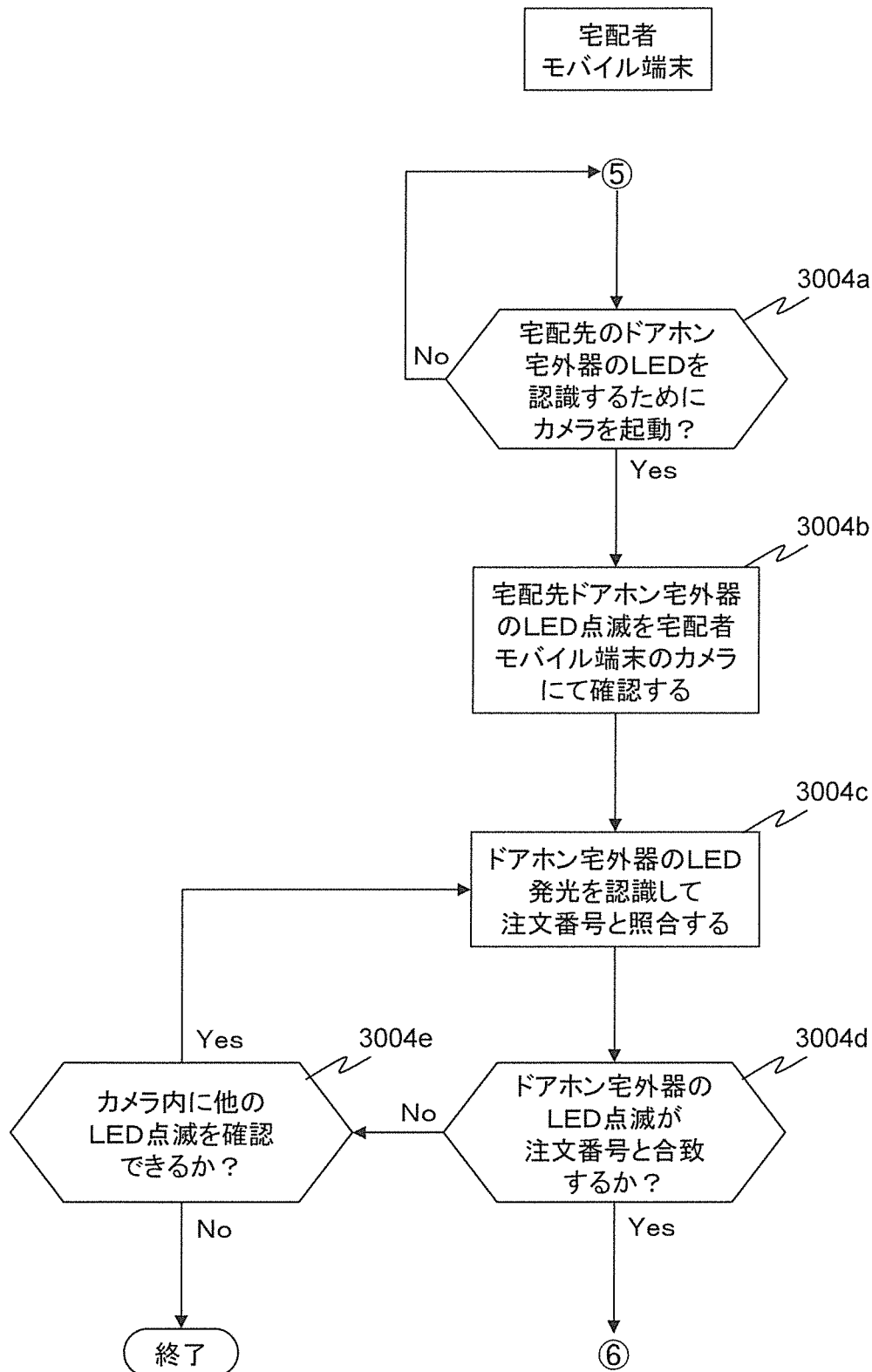
[図139]



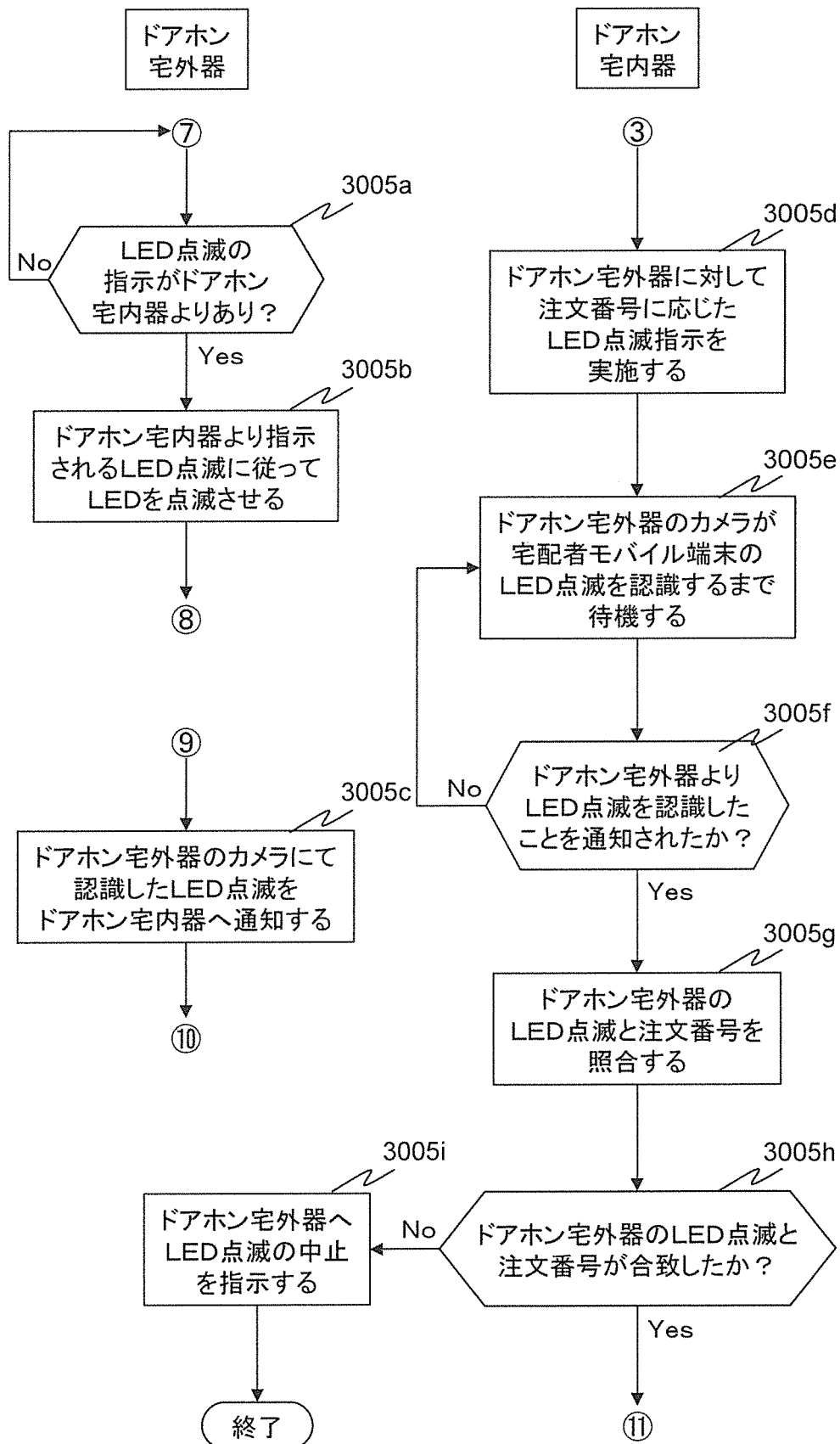
[図140]



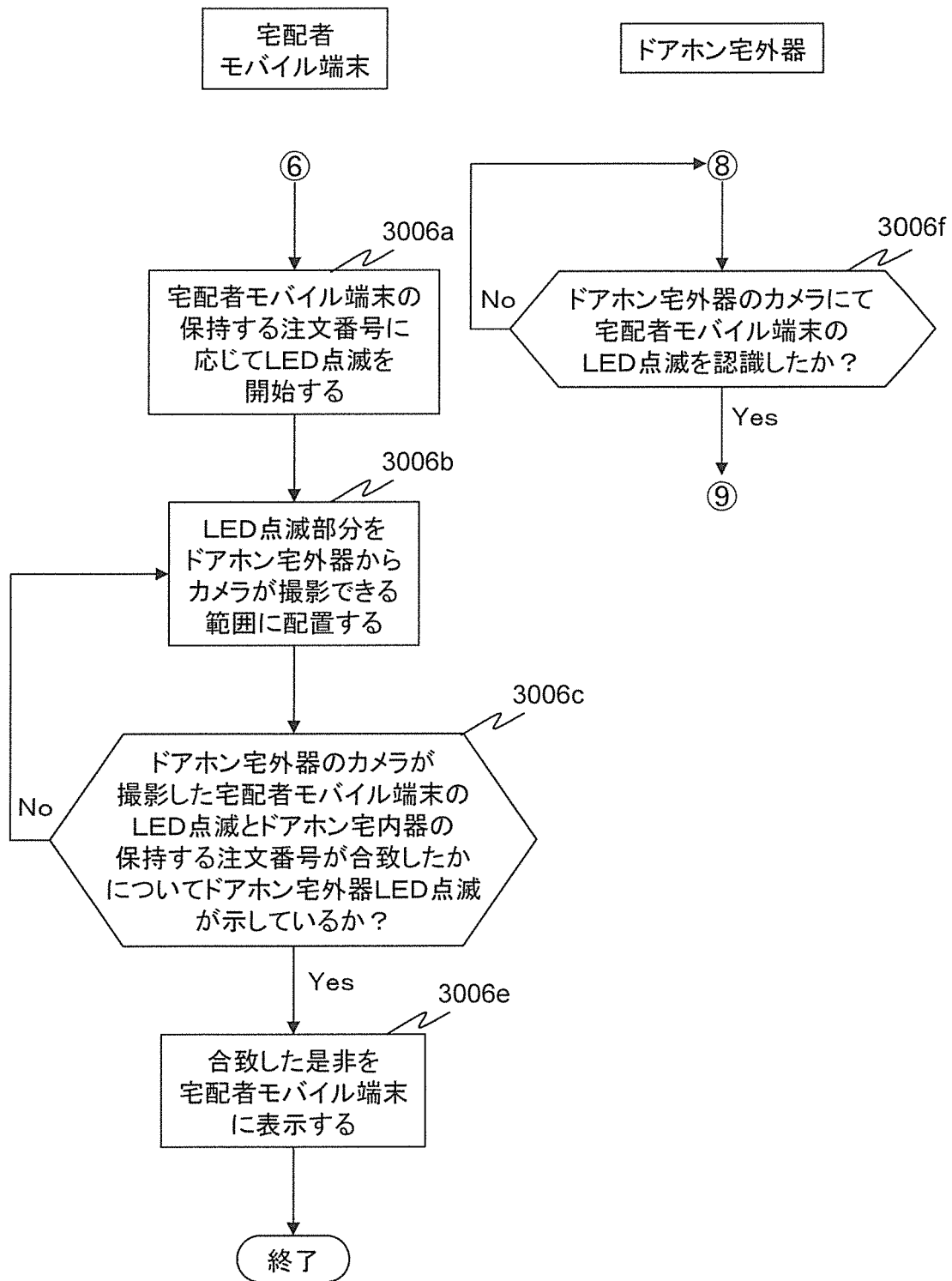
[図141]



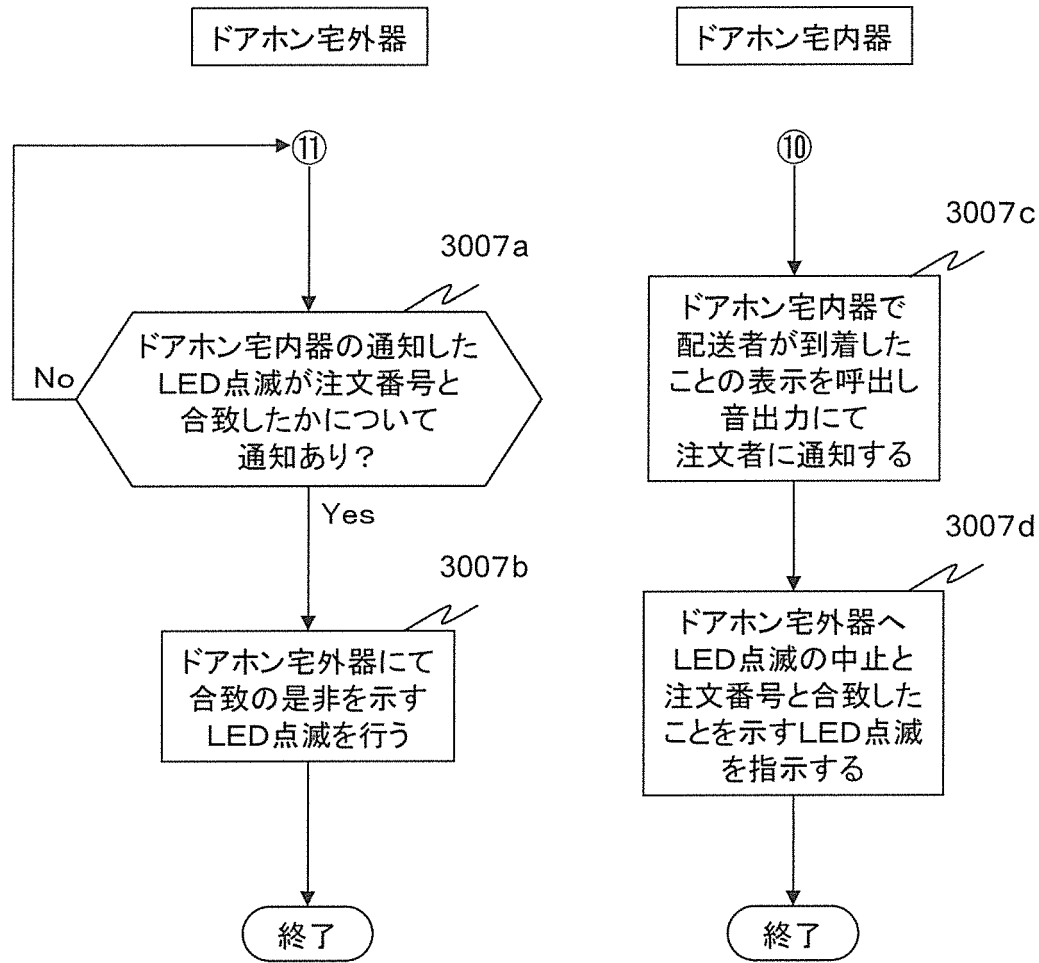
[図142]



[図143]

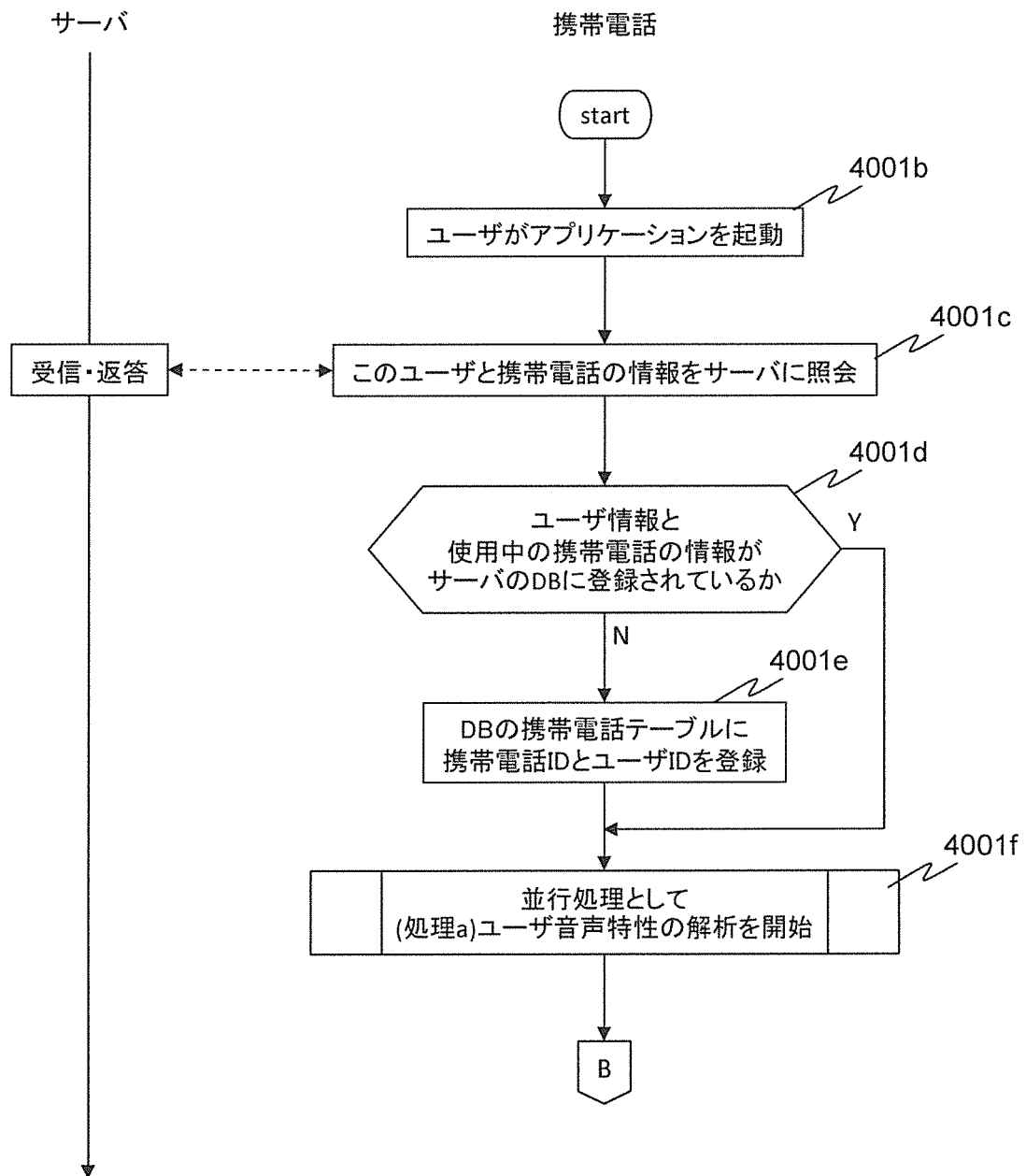


[図144]



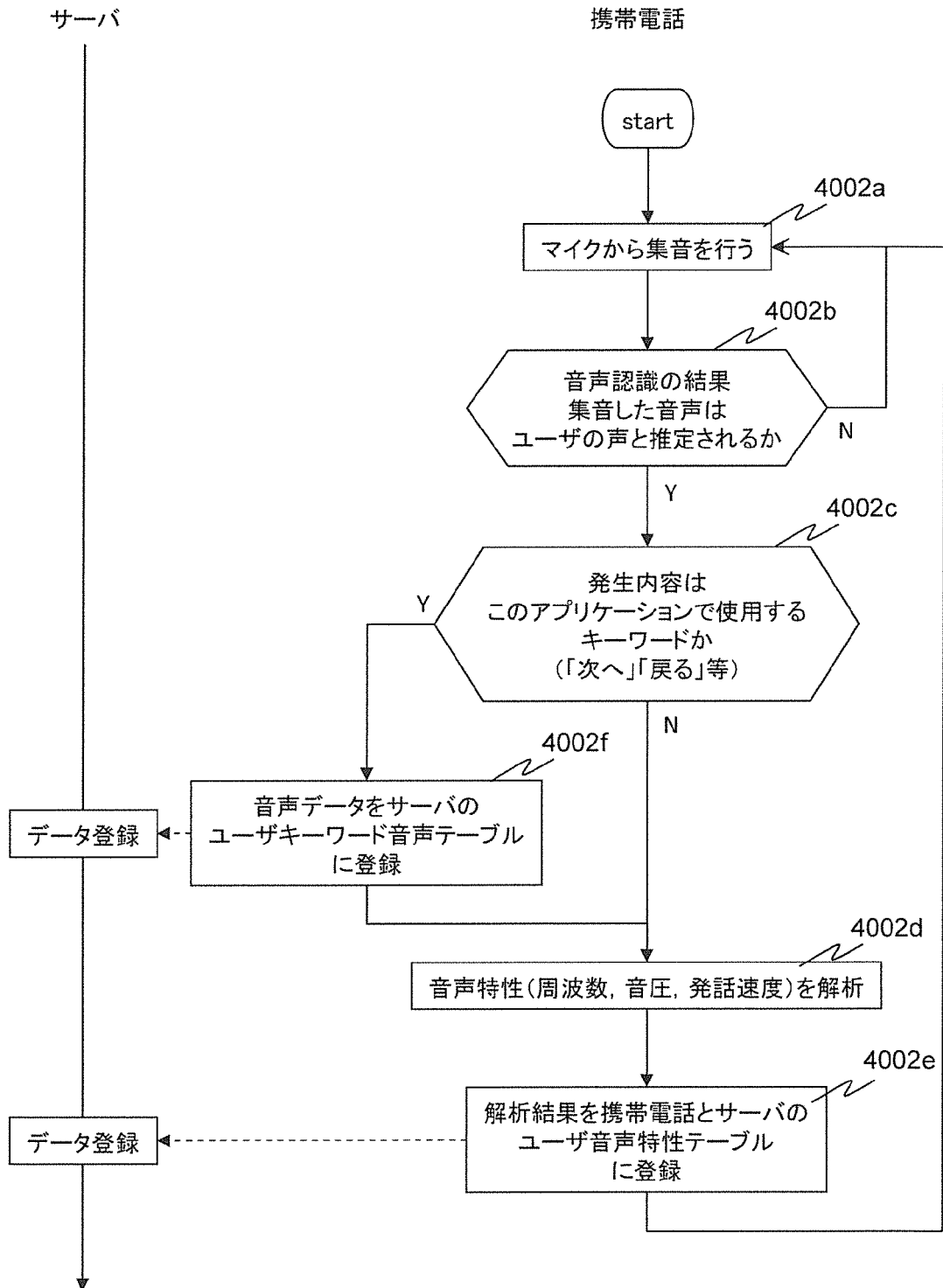
[図145]

サーバへユーザと使用中の携帯電話を登録



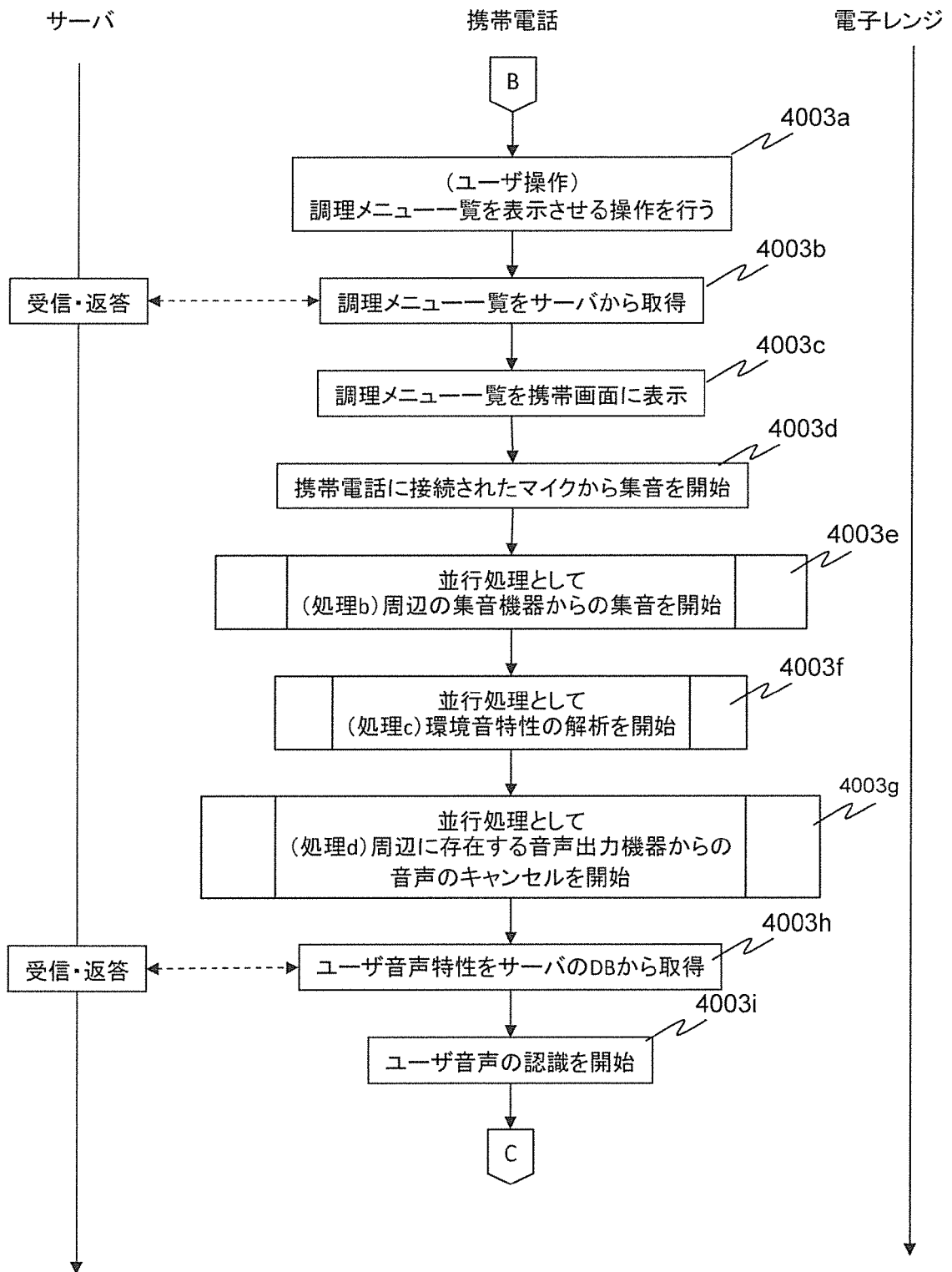
[図146]

(処理a) ユーザ音声特性の解析



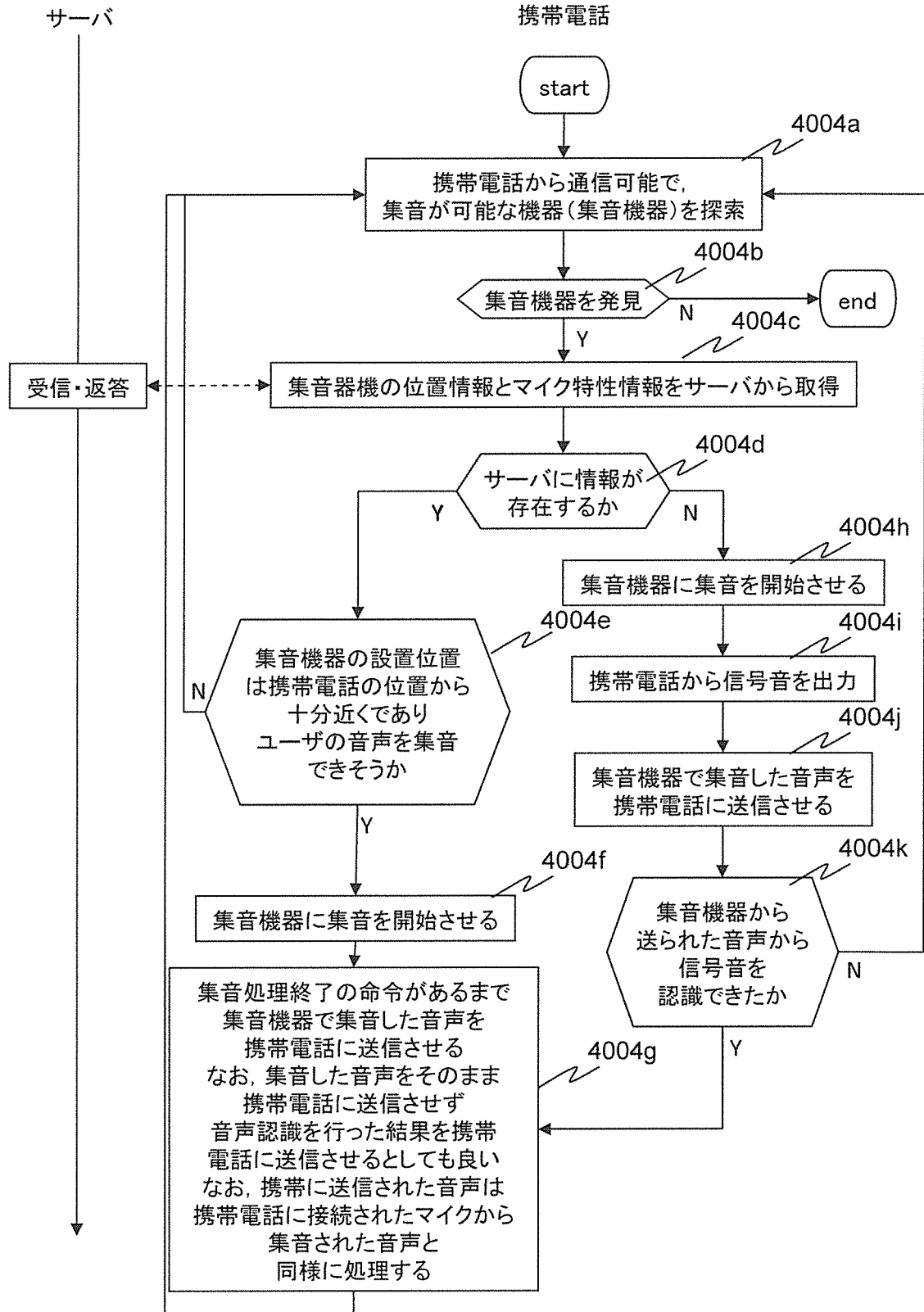
[図147]

音声認識処理の準備



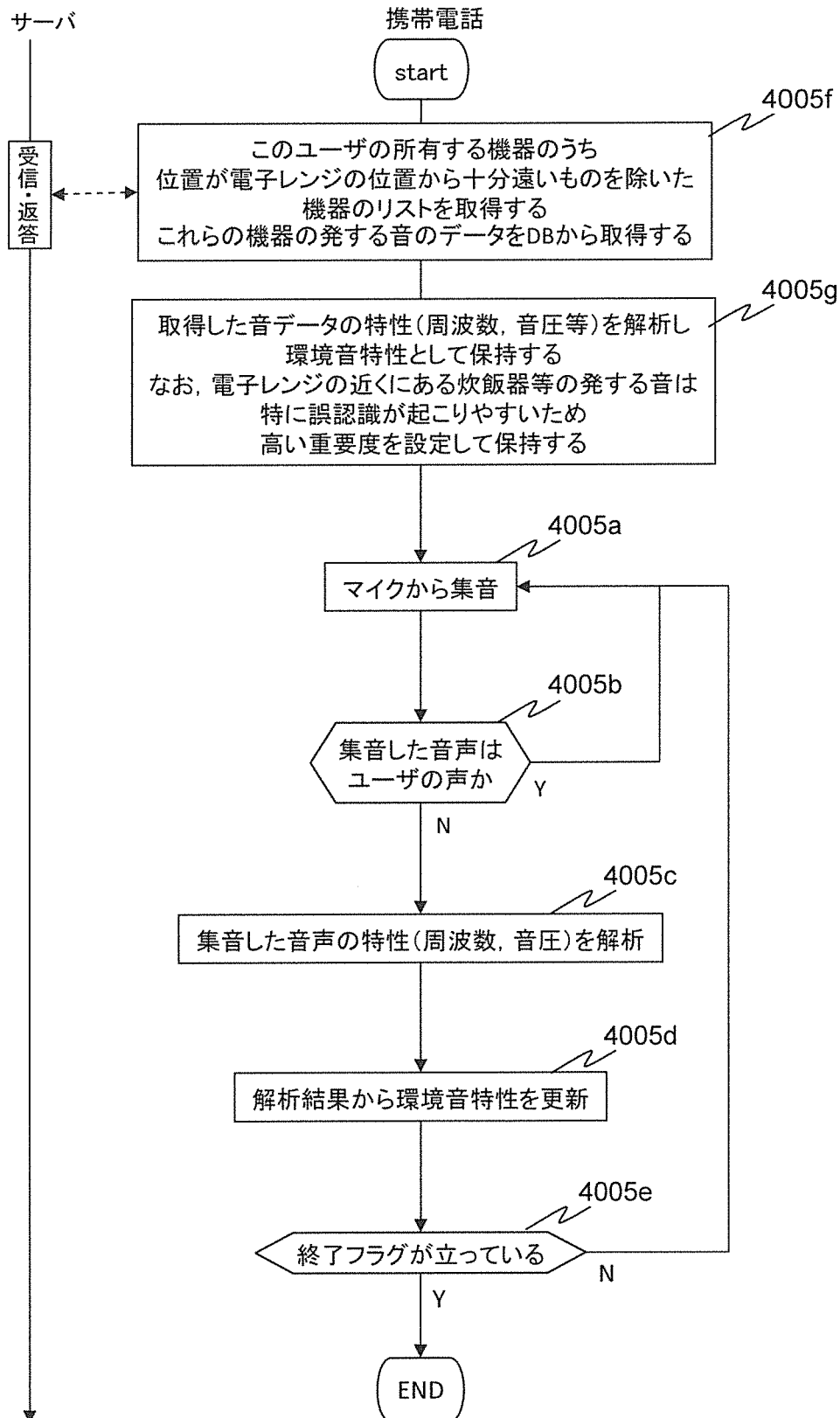
[図148]

(処理b) 周辺の集音機器からの集音



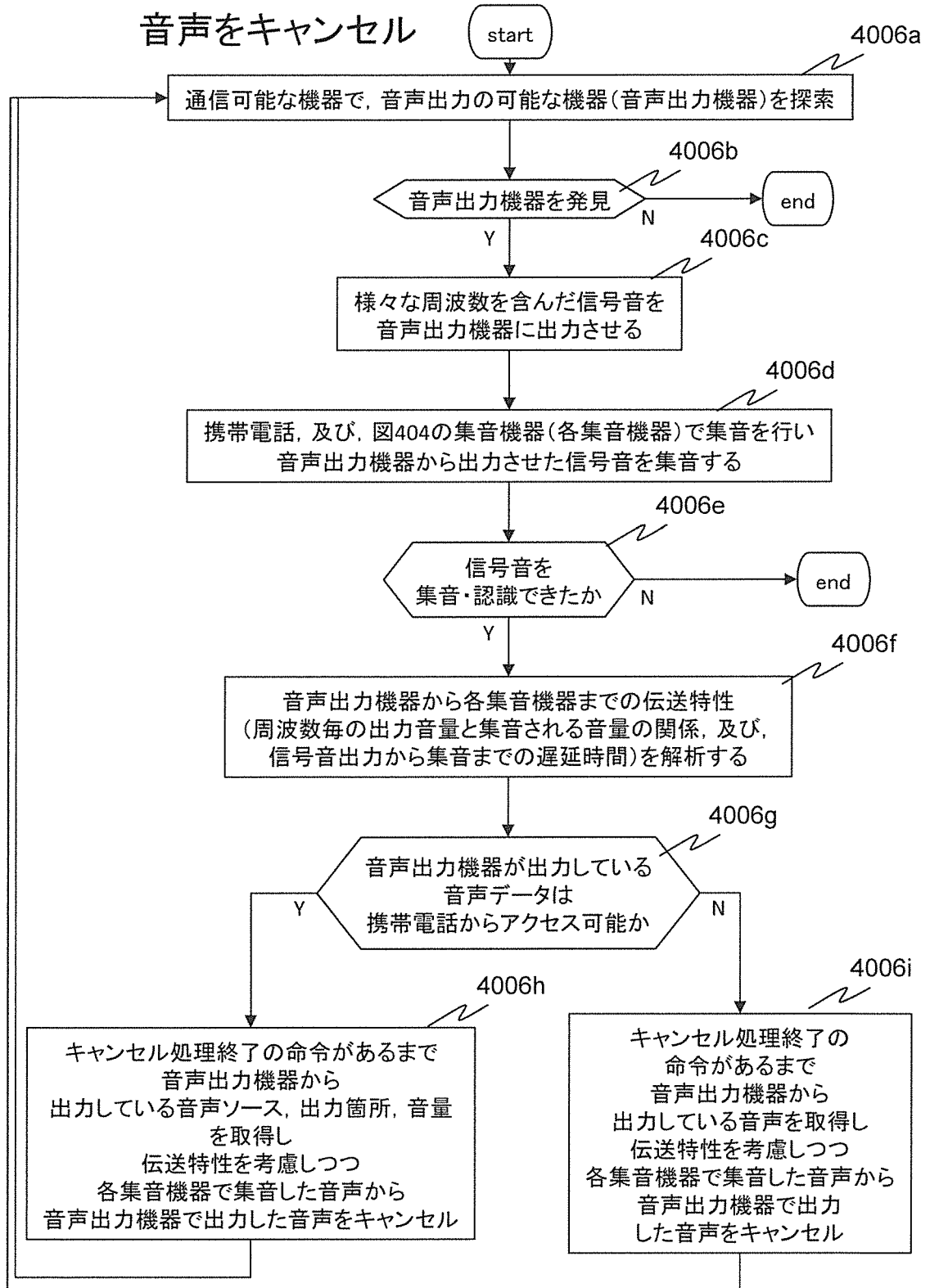
[図149]

(処理c)環境音特性の解析



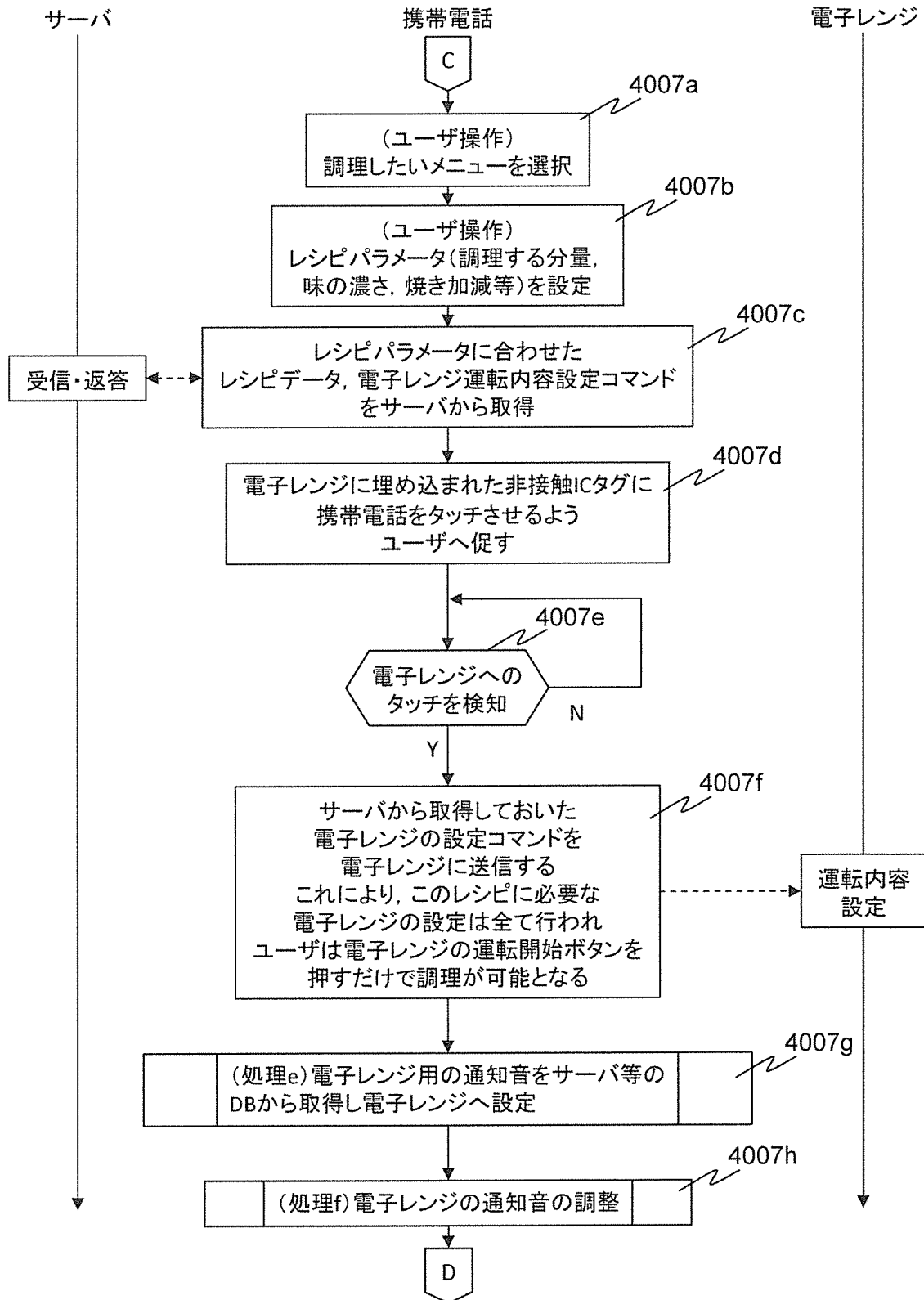
[図150]

(処理d) 周辺に存在する音声出力機器からの
音声をキャンセル



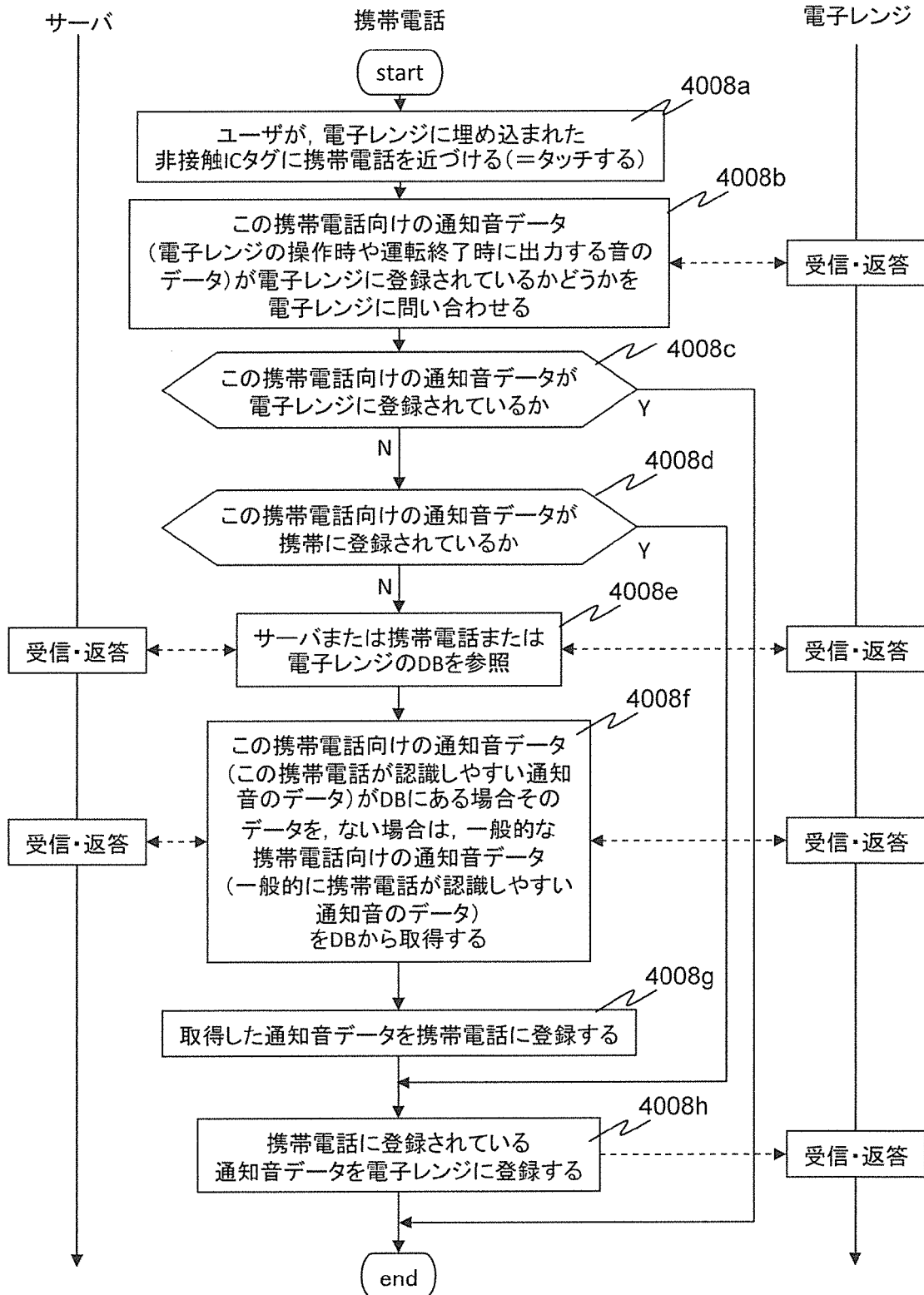
[図151]

調理メニューの選択と電子レンジへの運転内容設定

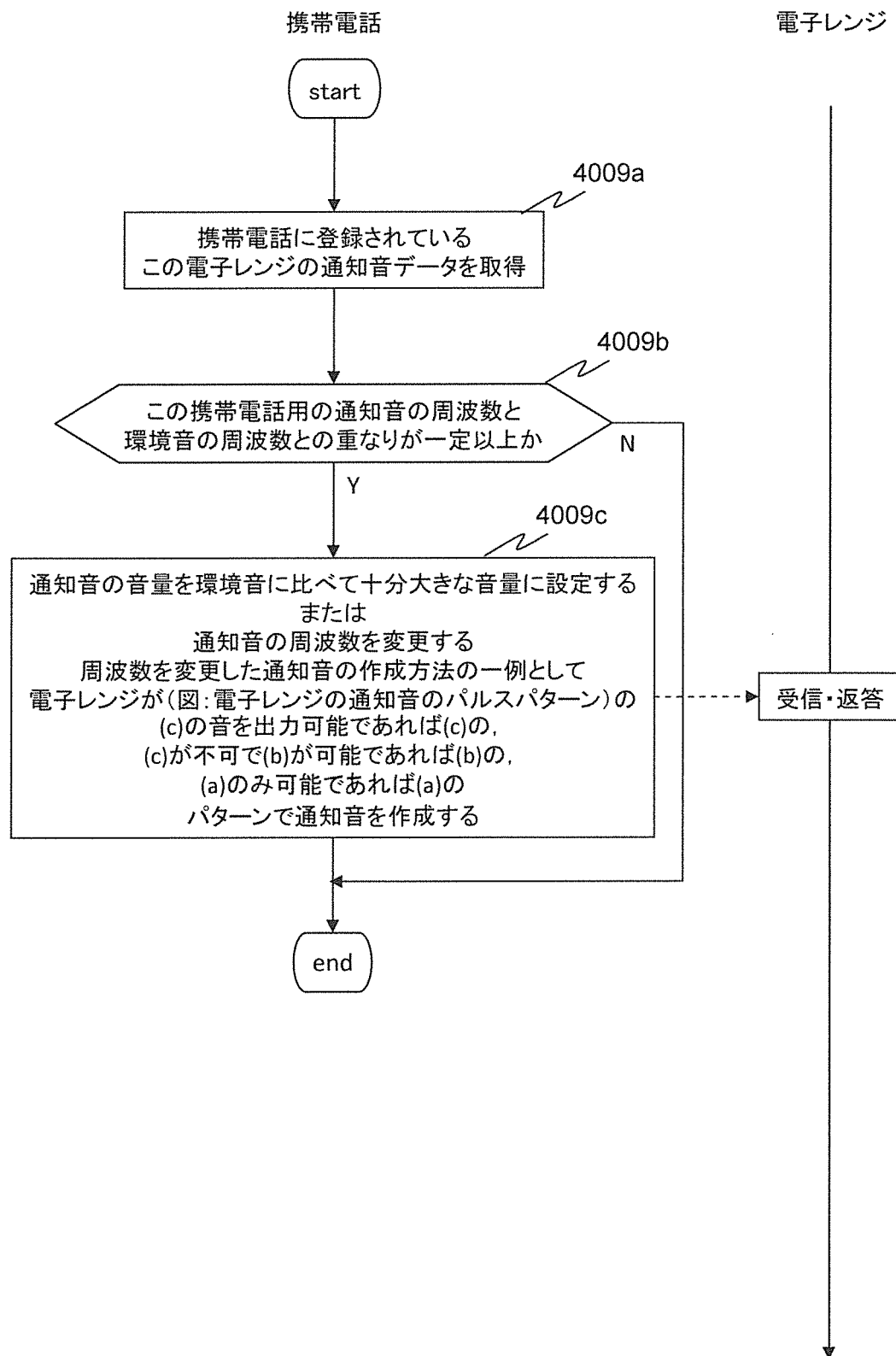


[図152]

(処理e) 電子レンジ用の通知音をサーバ等のDBから
取得し電子レンジへ設定



(処理f) 電子レンジの通知音の調整

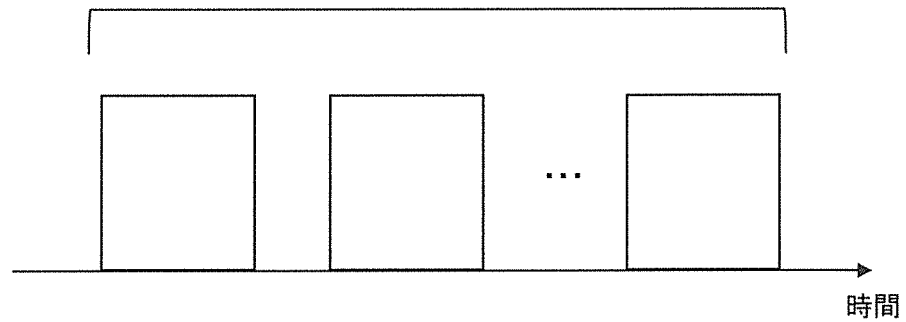


[図154]

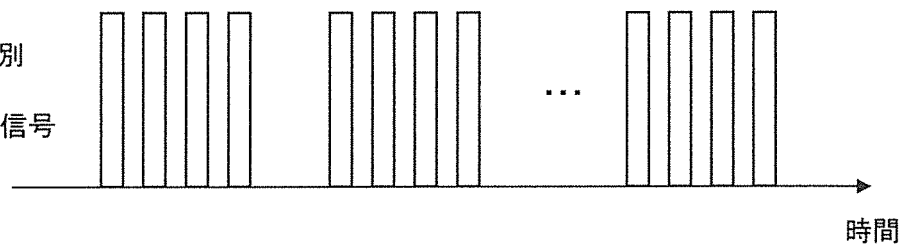
(図: 電子レンジの通知音のパルスパターン)

ボタン操作の通知音として1回, または, 2~3回,
運転終了の通知音としては, 数回繰り返す

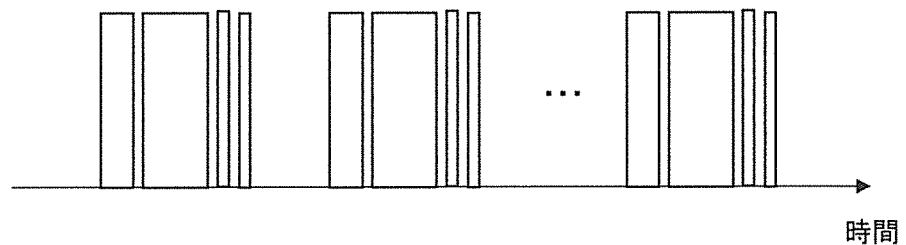
(a) 矩形信号



(b) 他の音源と区別しやすい断続的な矩形信号

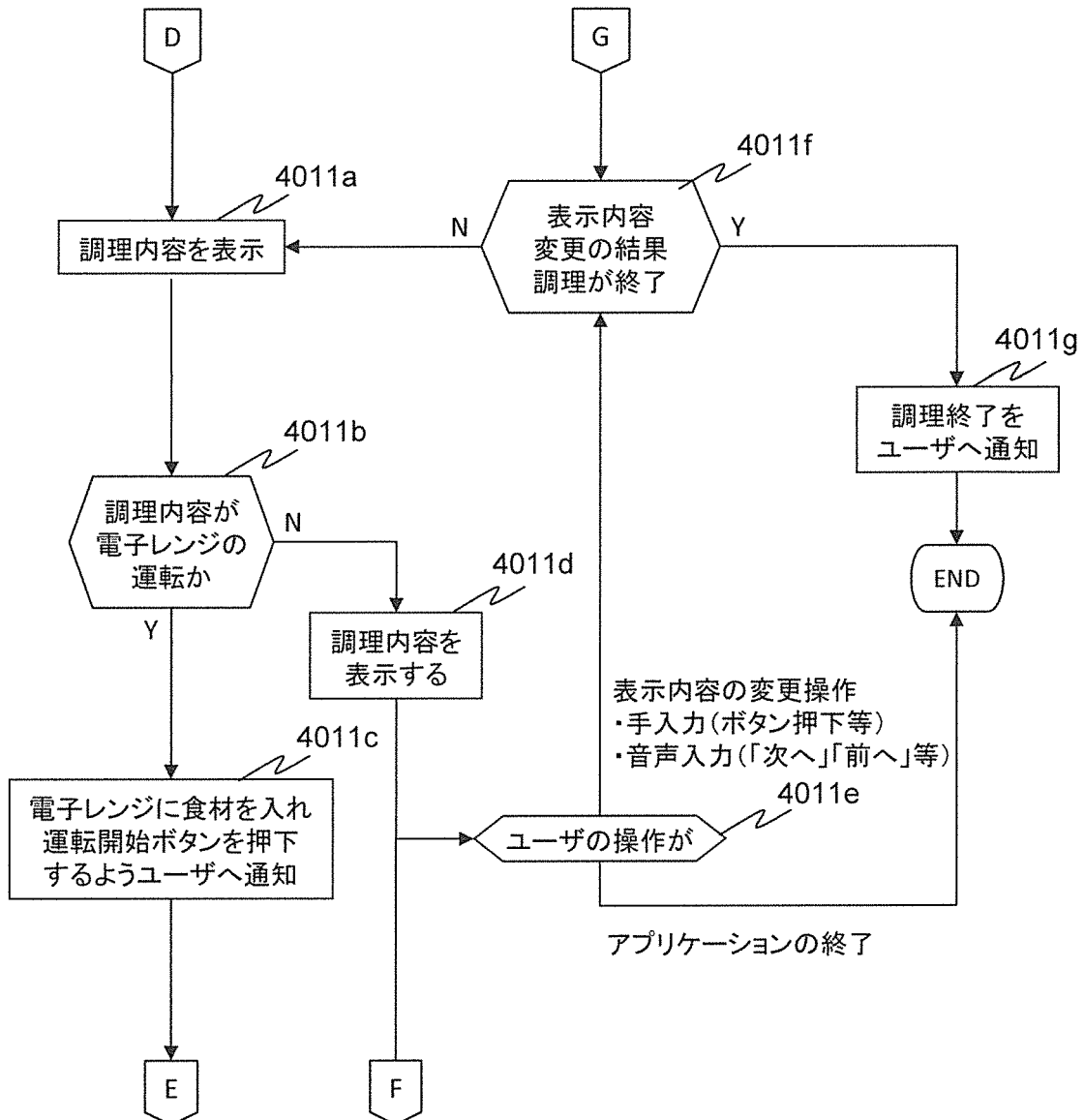


(c) PWM信号



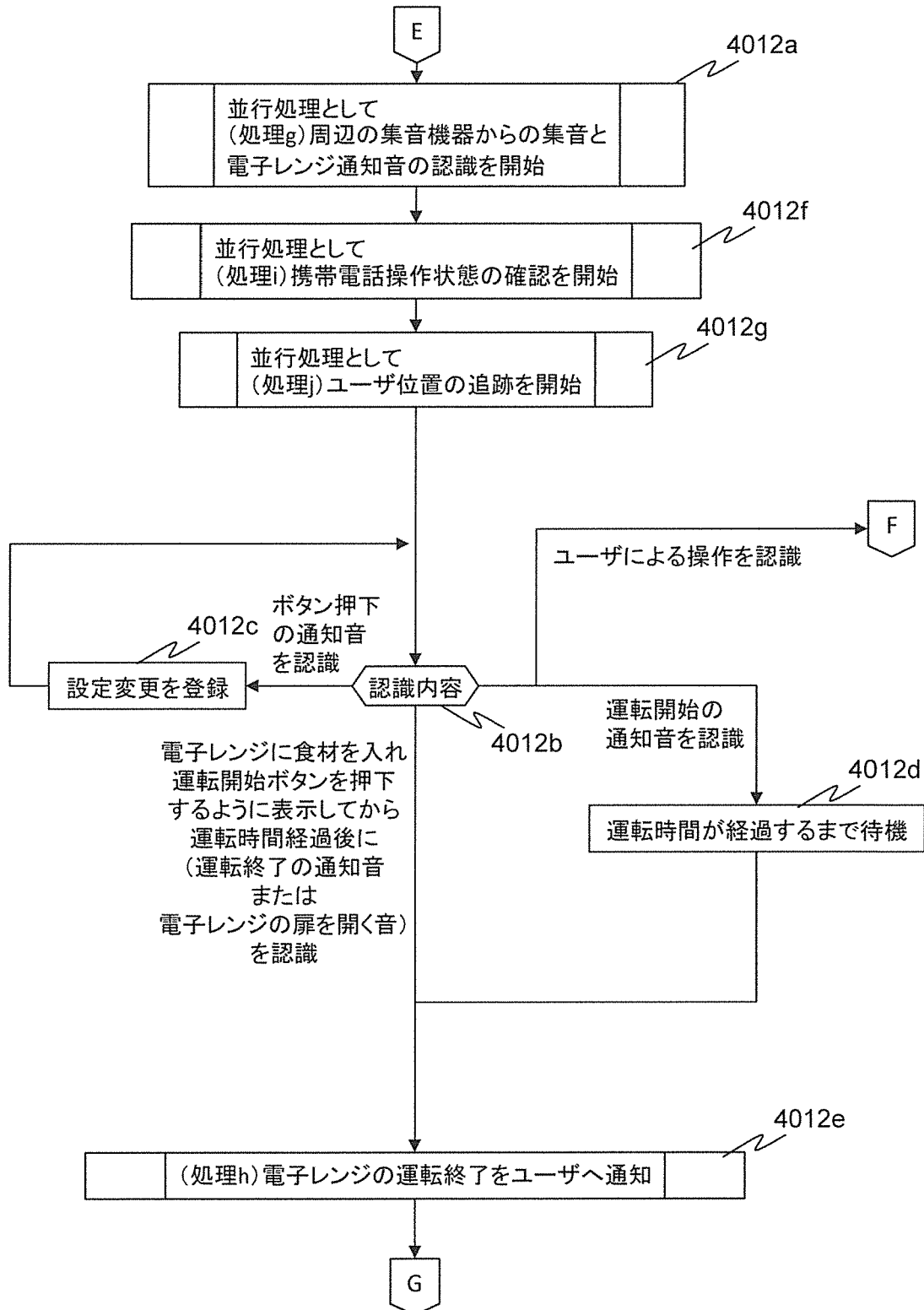
[図155]

調理内容の表示

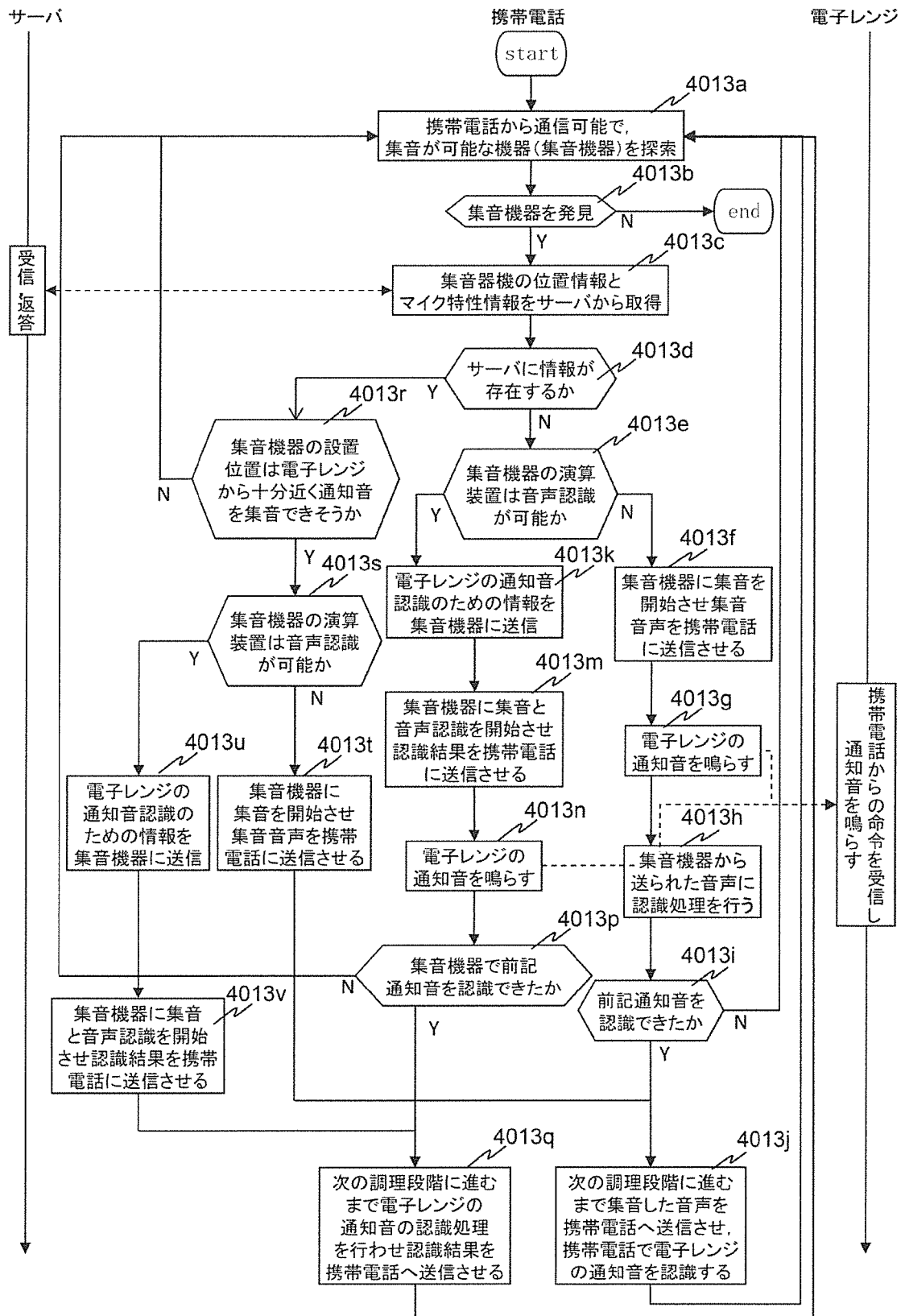


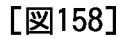
[図156]

電子レンジの通知音の認識



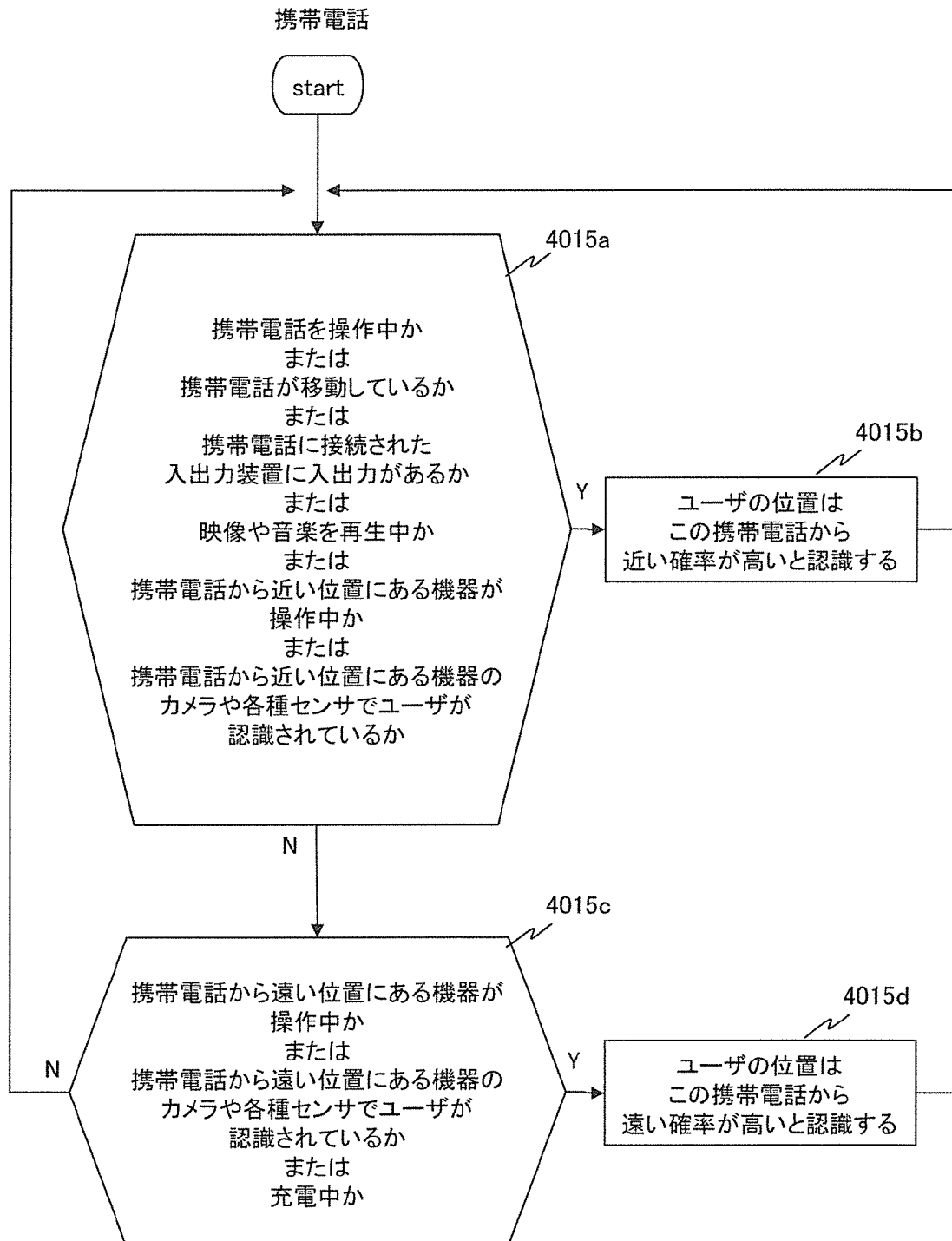
(処理g) 周辺の集音機器からの集音と電子レンジ通知音の認識





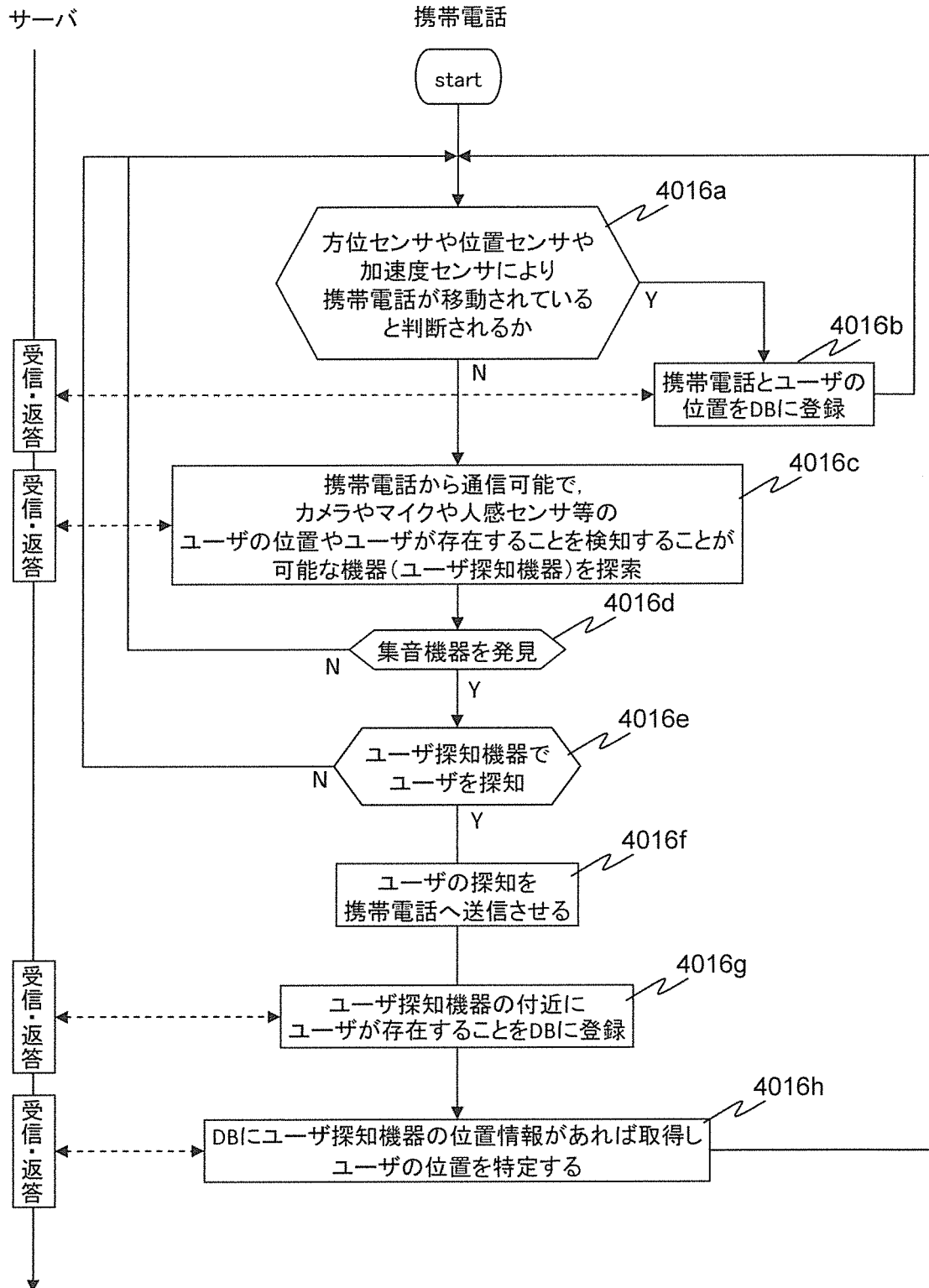
[図159]

(処理i) 携帯電話操作状態の確認



[図160]

(処理j) ユーザ位置の追跡



[illegible]

[図162]

データベース

電子レンジテーブル 4040a

電子レンジ機種ID	電子レンジが出力可能な音を特定するデータ(スピーカ特性, 変調方式等)	携帯電話機種A向けの(Aが認識しやすい)通知音データ	携帯電話機種B向けの(Bが認識しやすい)通知音データ	...	一般向けの(平均的に認識しやすい)通知音データ

携帯テーブル 4040a

携帯電話ID	携帯電話機種ID	ユーザID	携帯電話の位置データ

携帯機種テーブル 4040c

携帯電話機種ID	集音特性

ユーザ音声特性テーブル 4040d

ユーザID	ユーザの声の音響特性

ユーザキーワード音声テーブル 4040e

ユーザID	キーワードを話している音声波形データ

ユーザ所有機器位置テーブル 4040f

ユーザID	所有機器ID	所有機器の位置データ

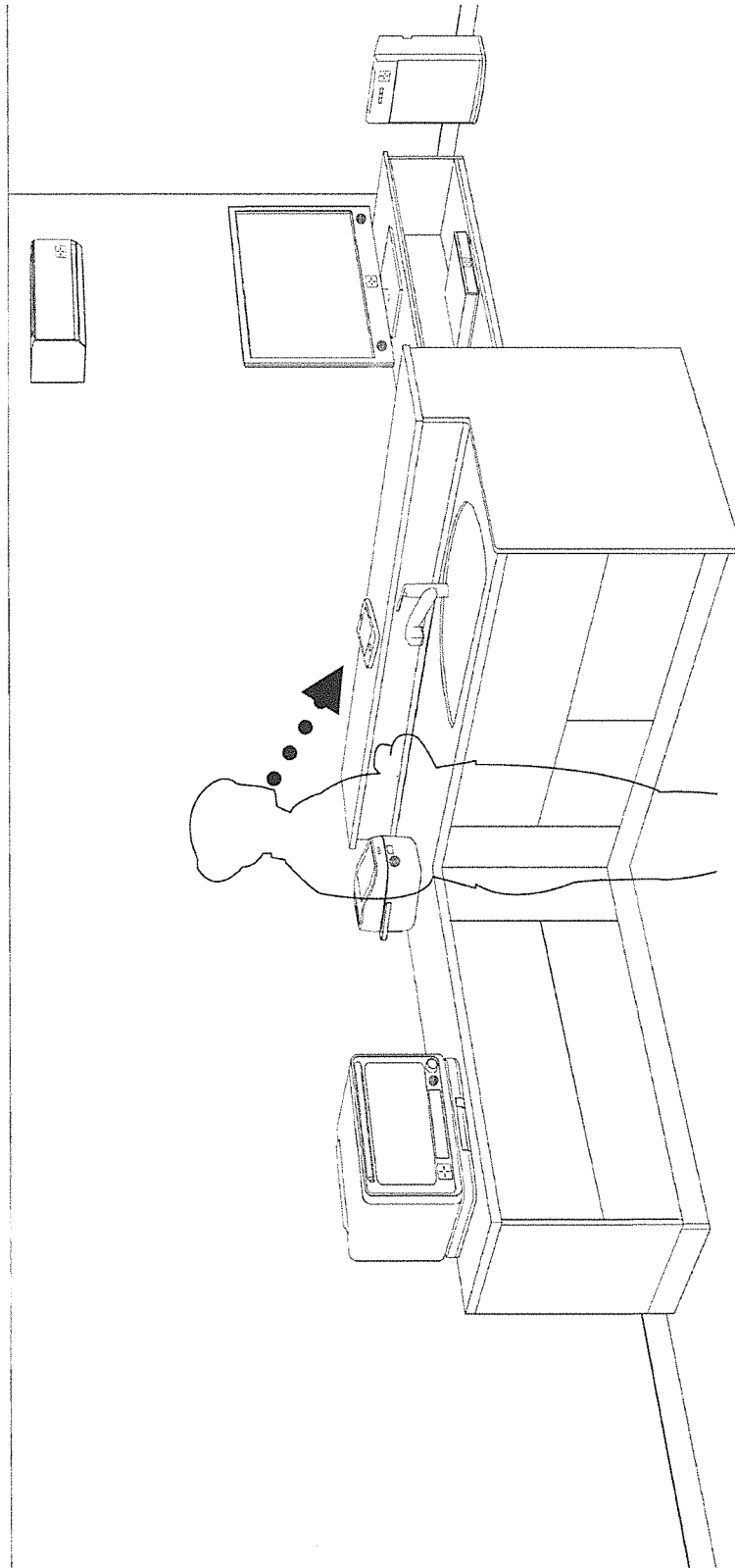
ユーザ所有機器の音データテーブル 4040g

ユーザID	所有機器ID	所有機器の発する音のデータ

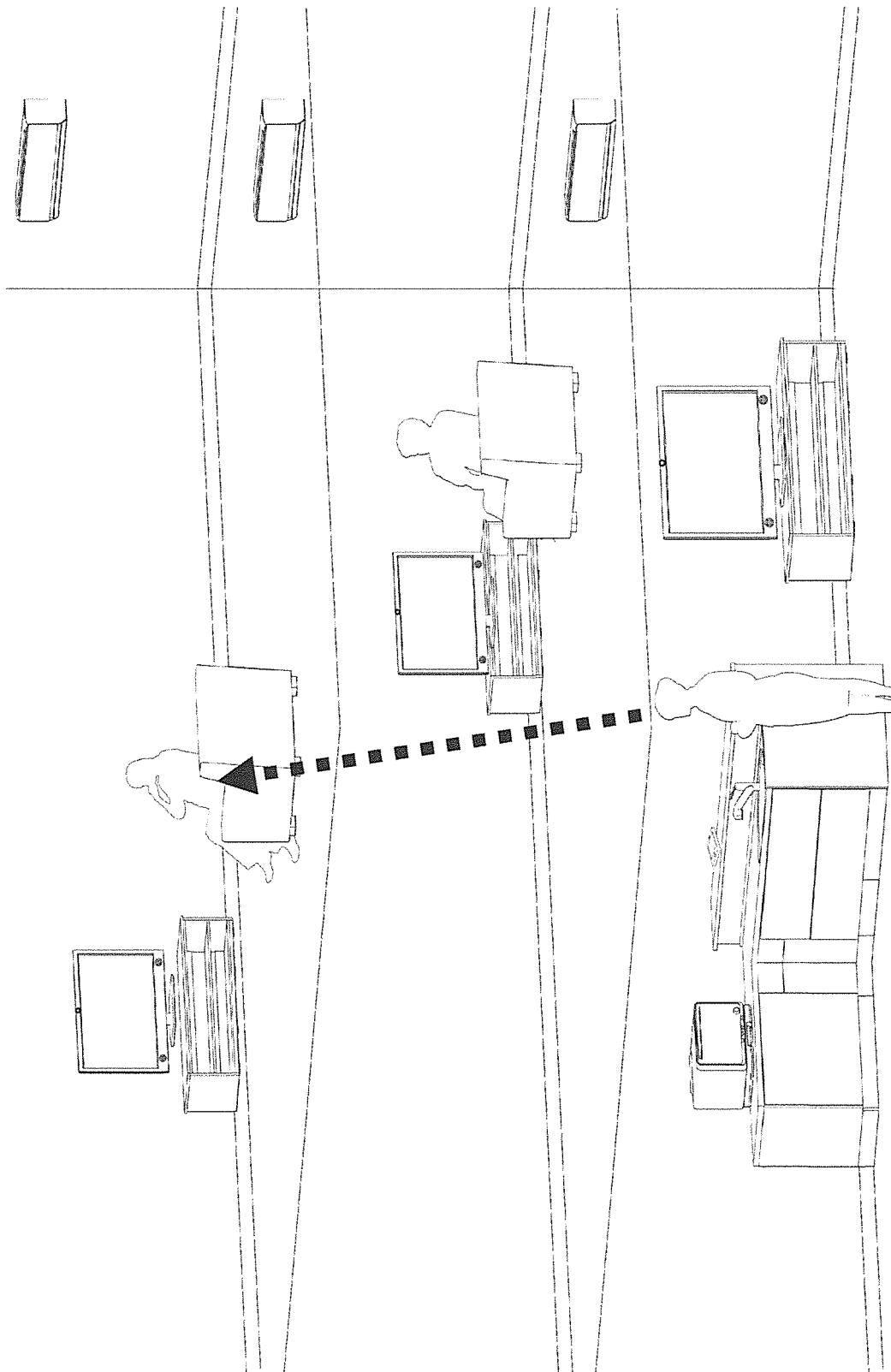
ユーザ位置テーブル 4040h

ユーザID	ユーザの位置データ

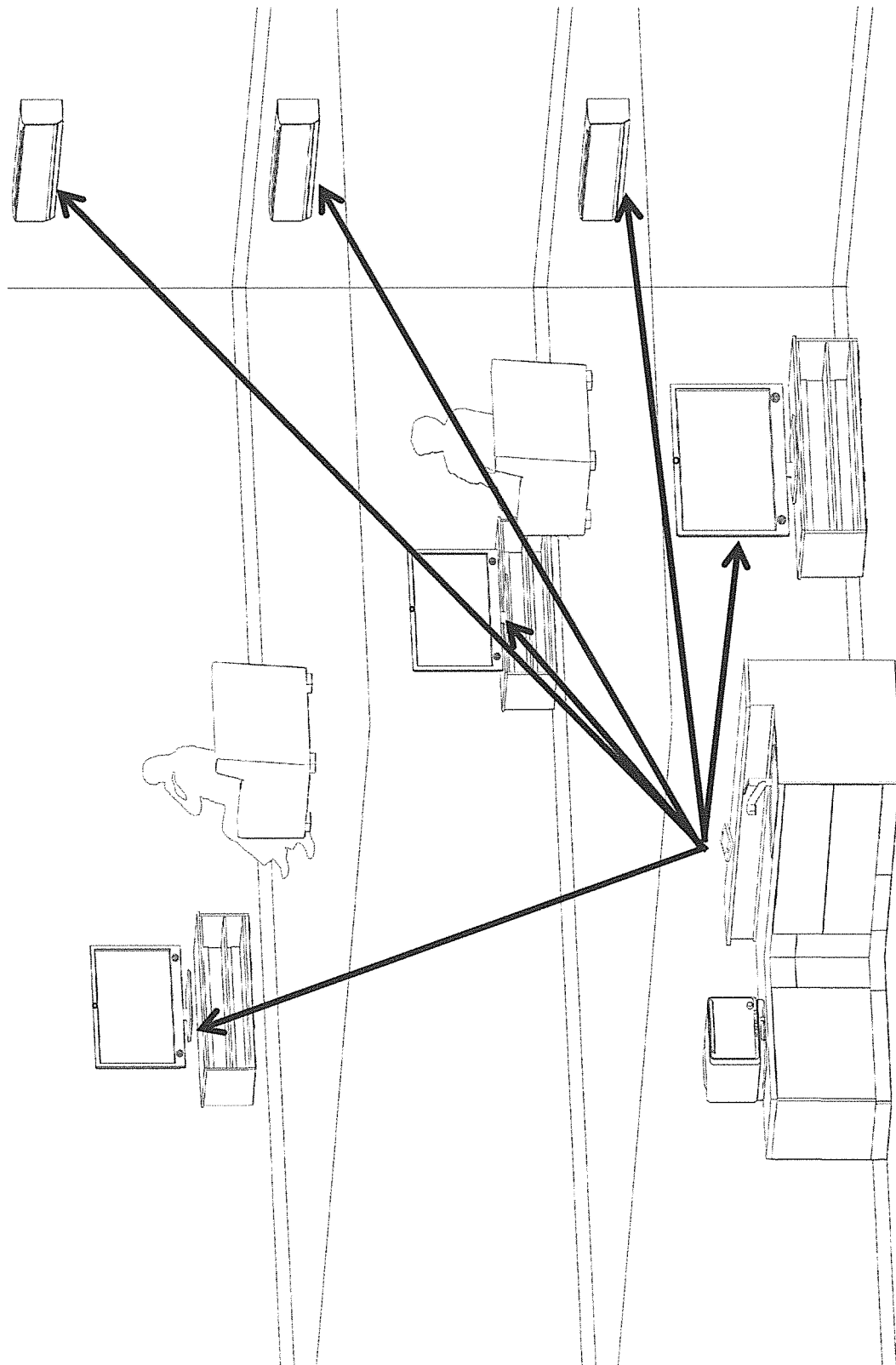
[図163]



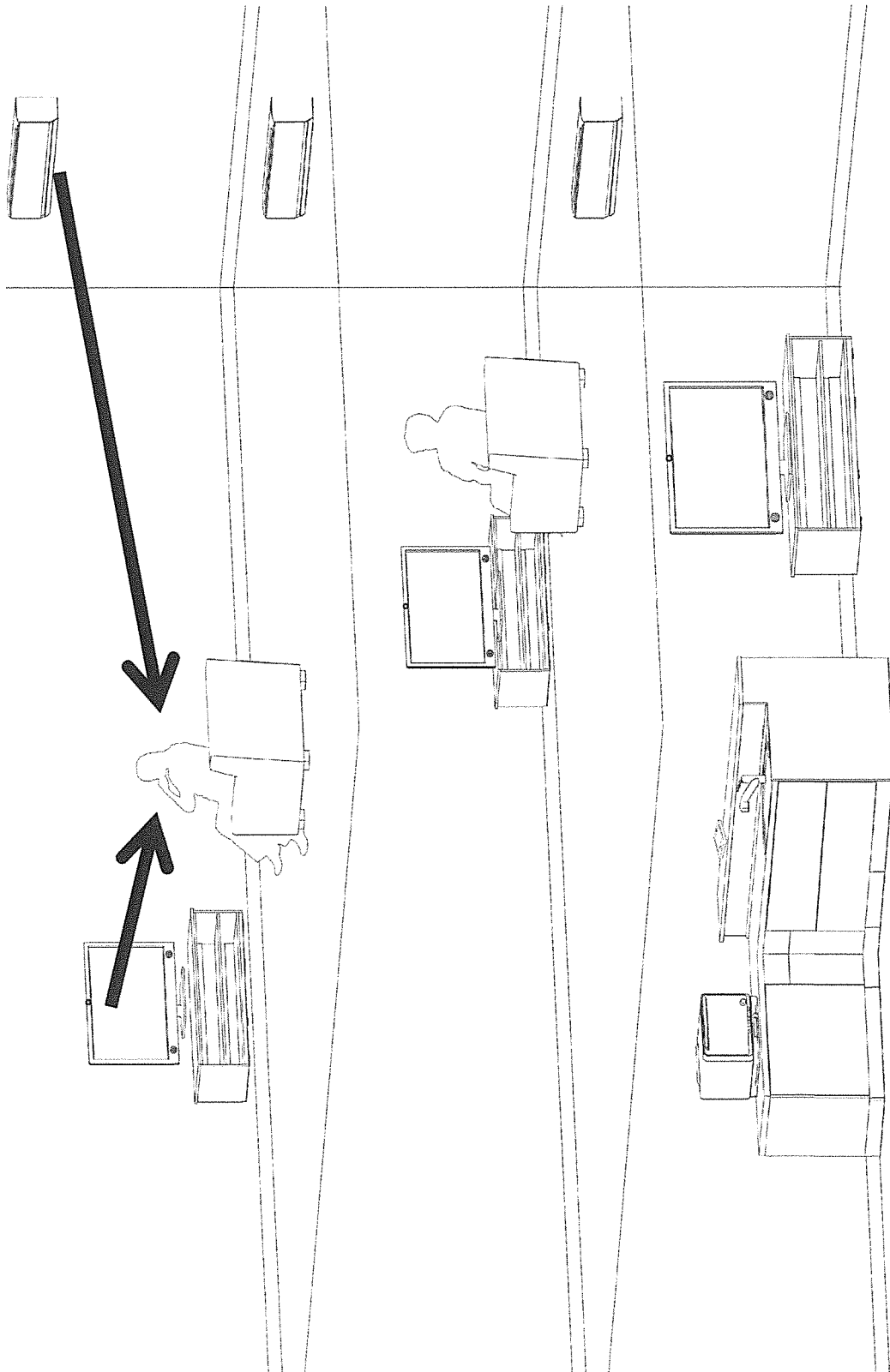
[図164]



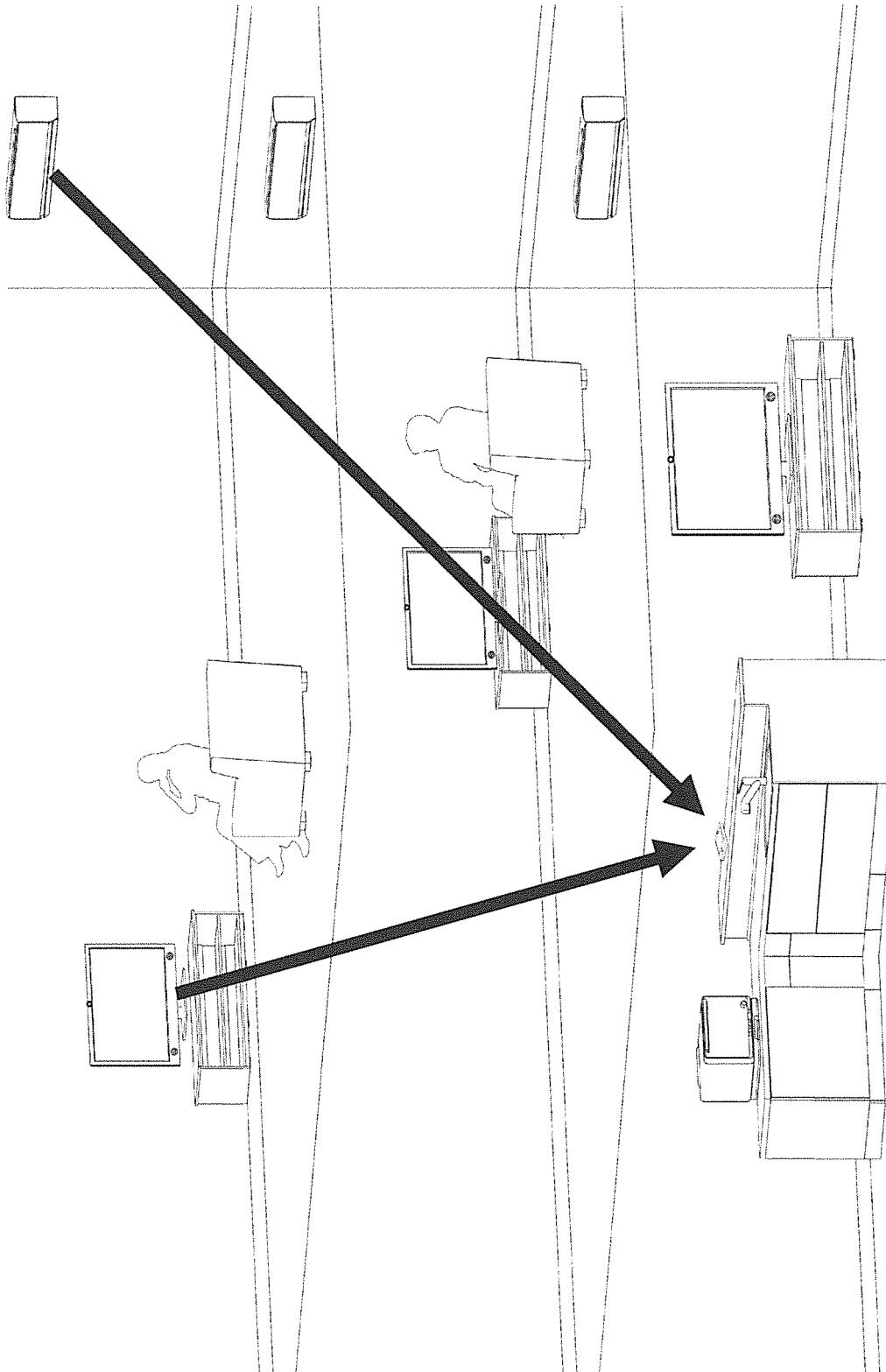
[図165]



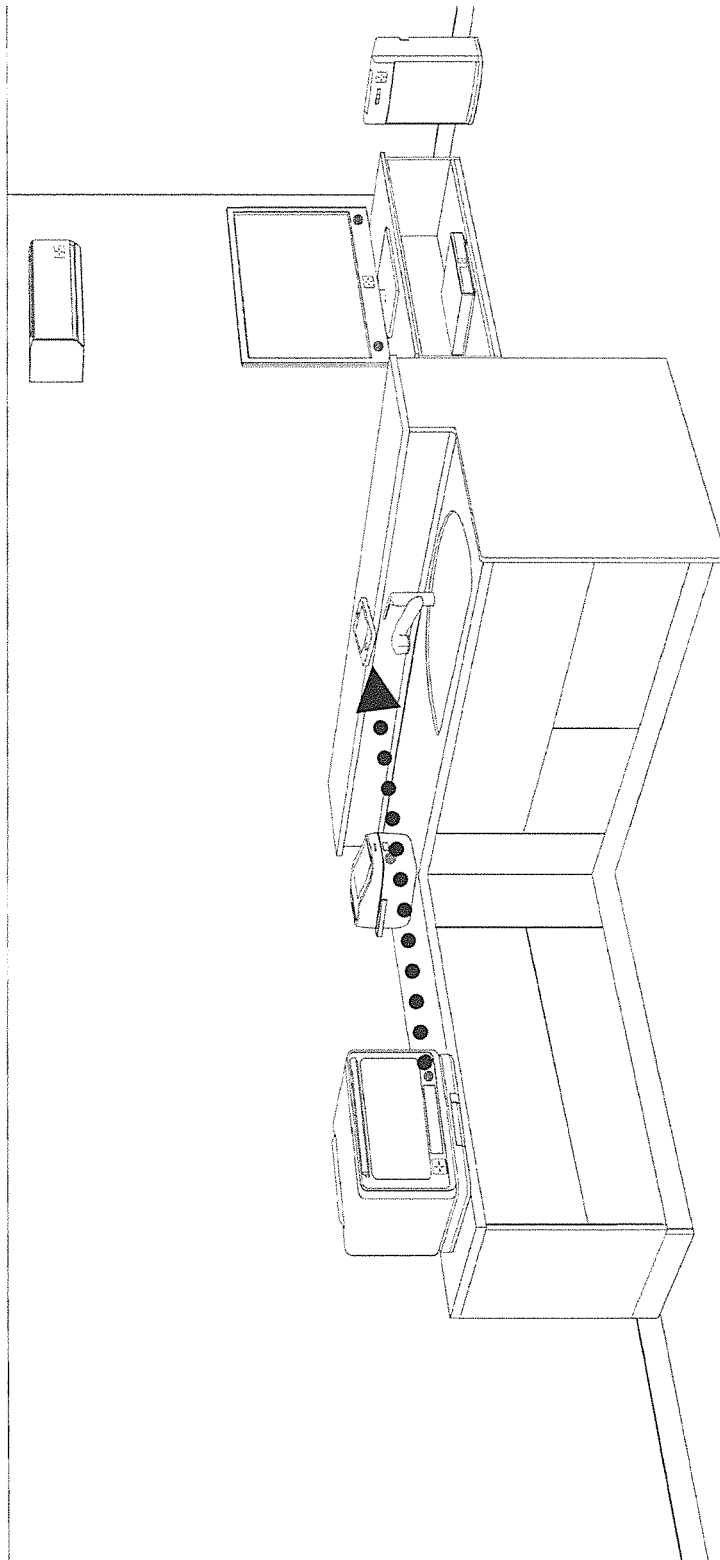
[図166]



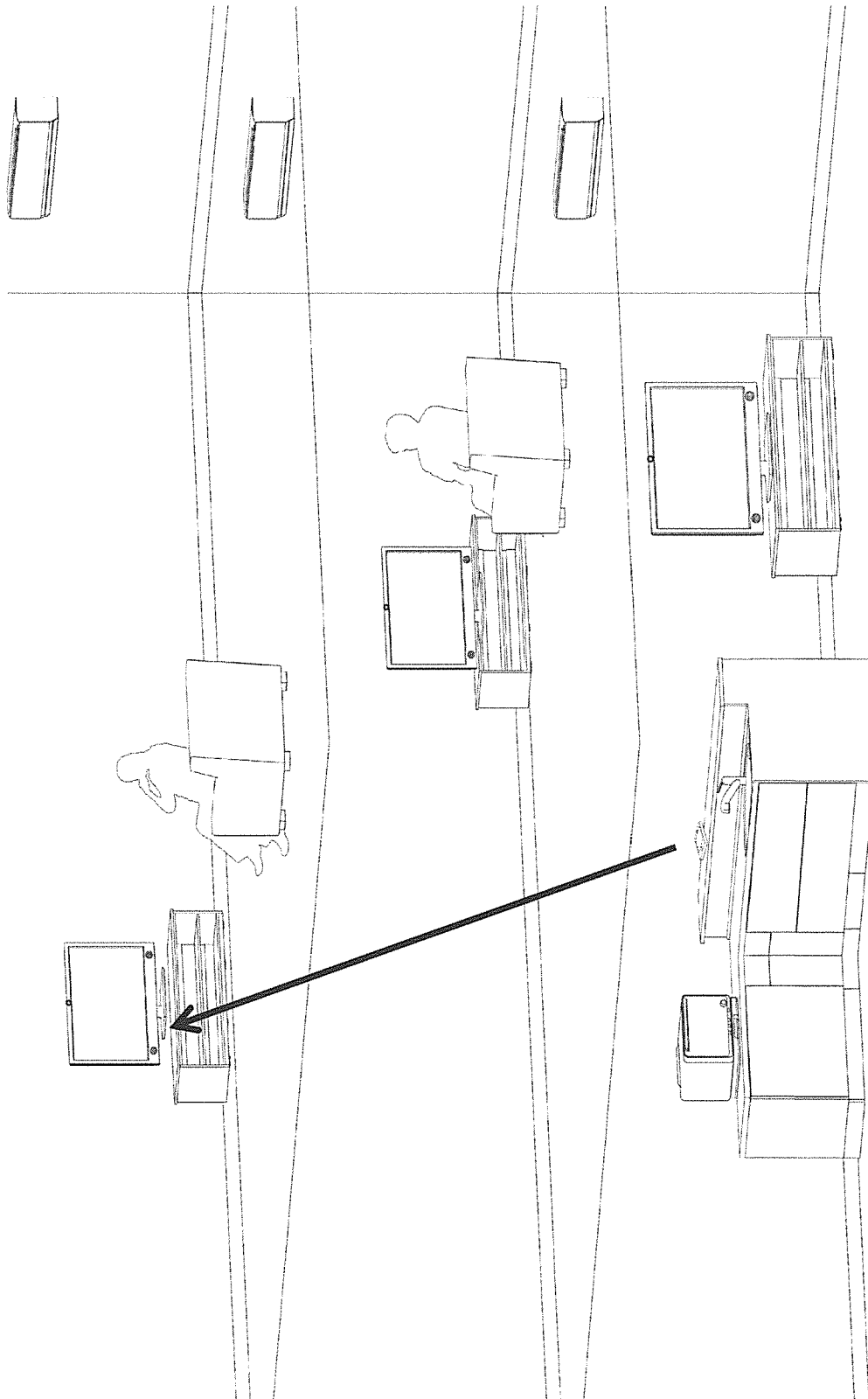
[図167]



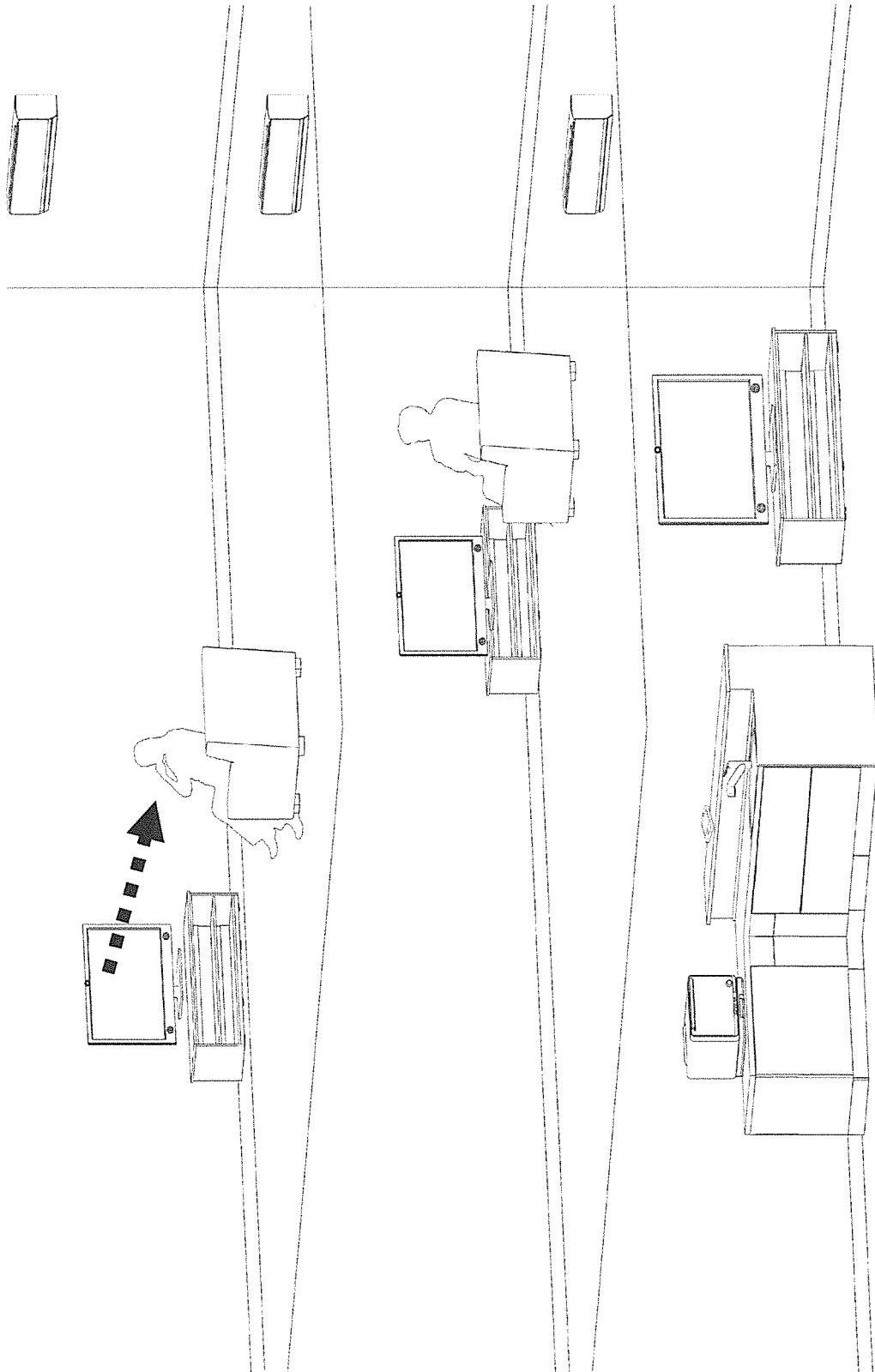
[図168]



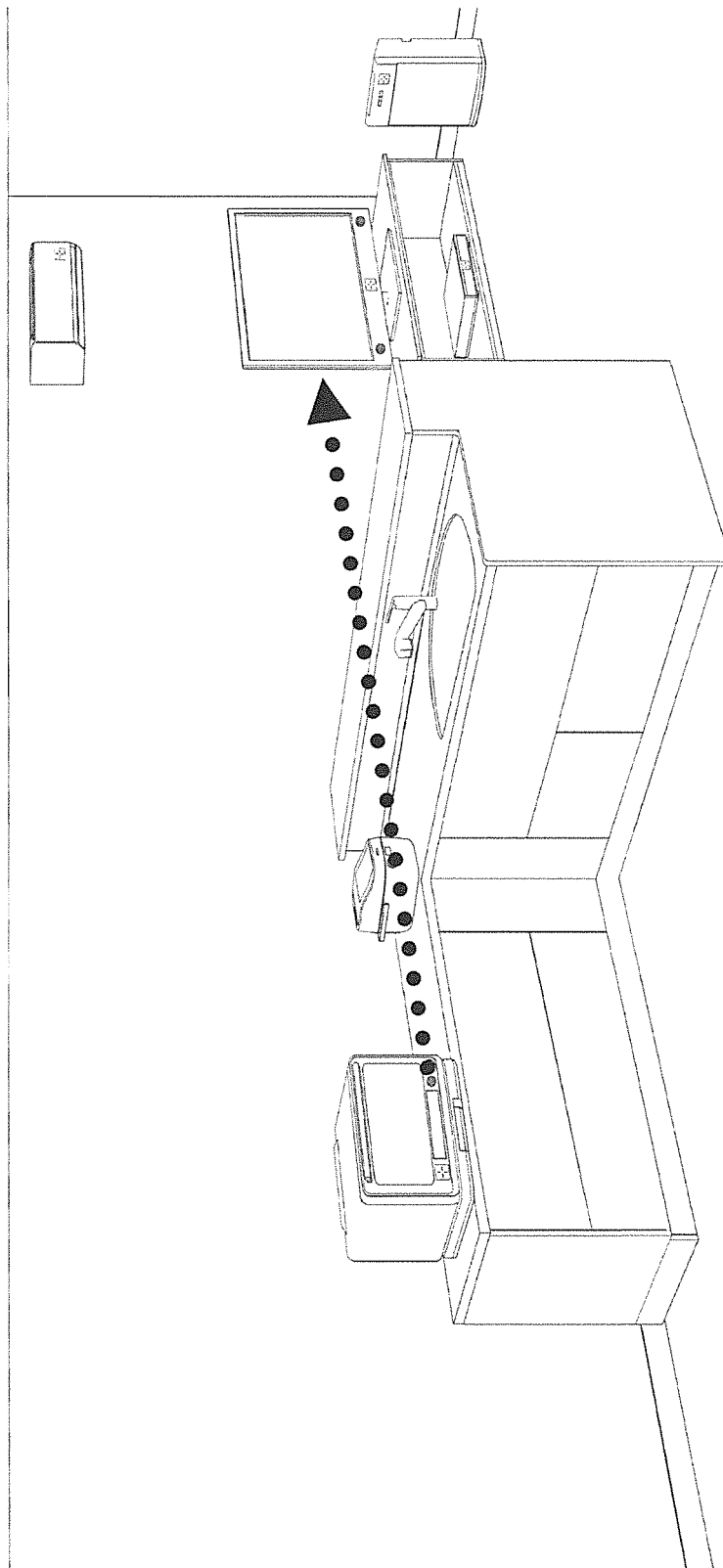
[図169]



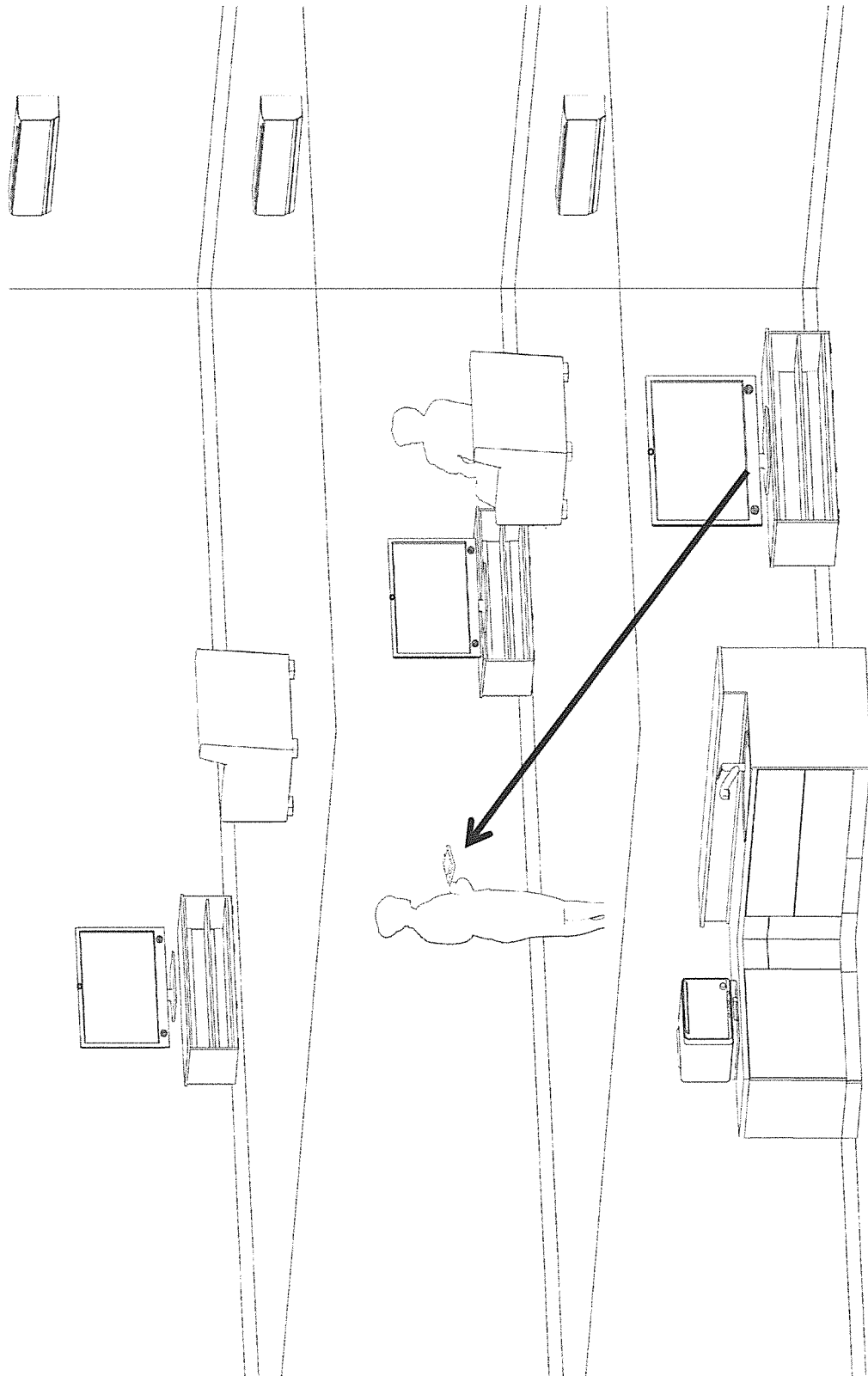
[図170]



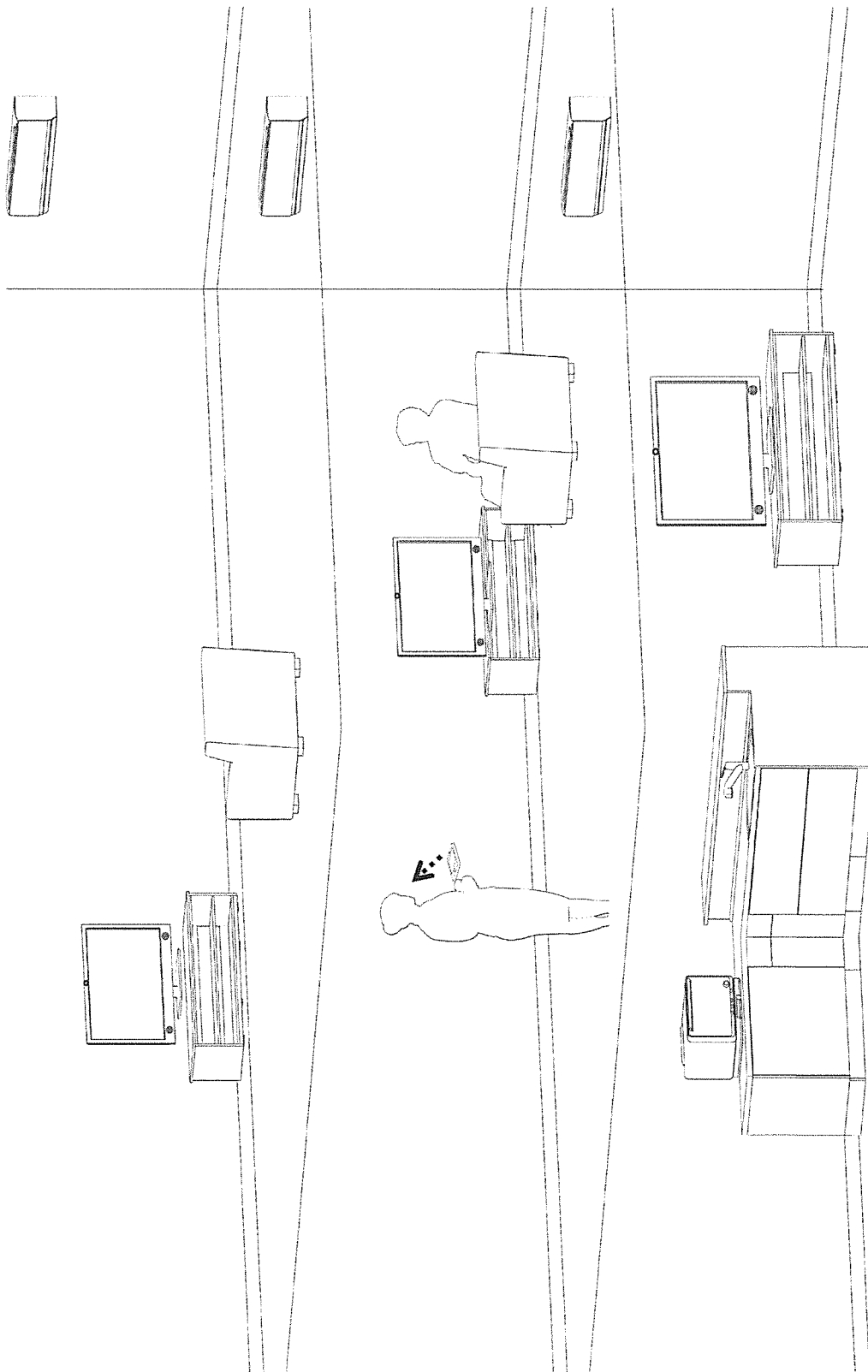
[図171]



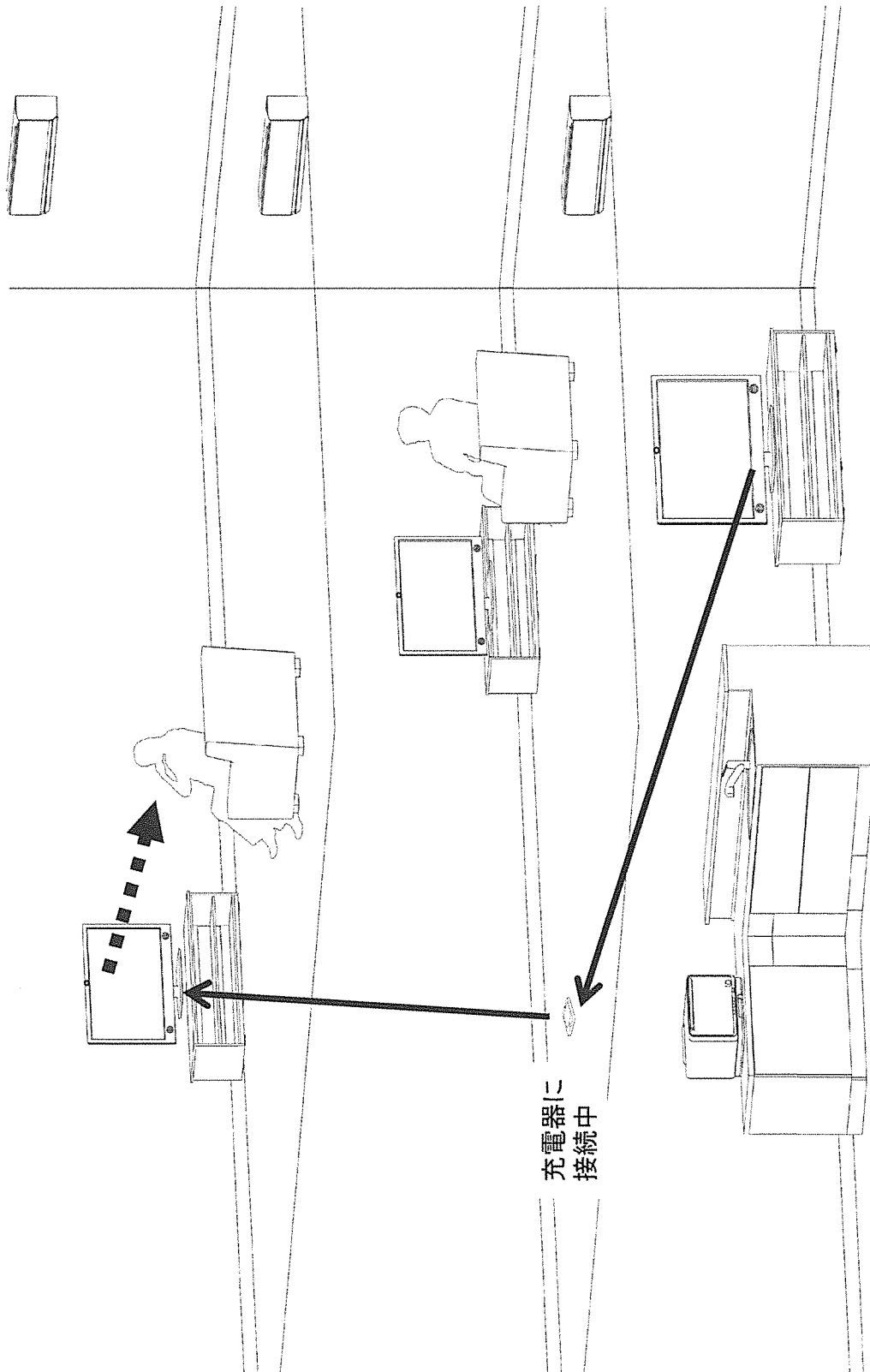
[図172]



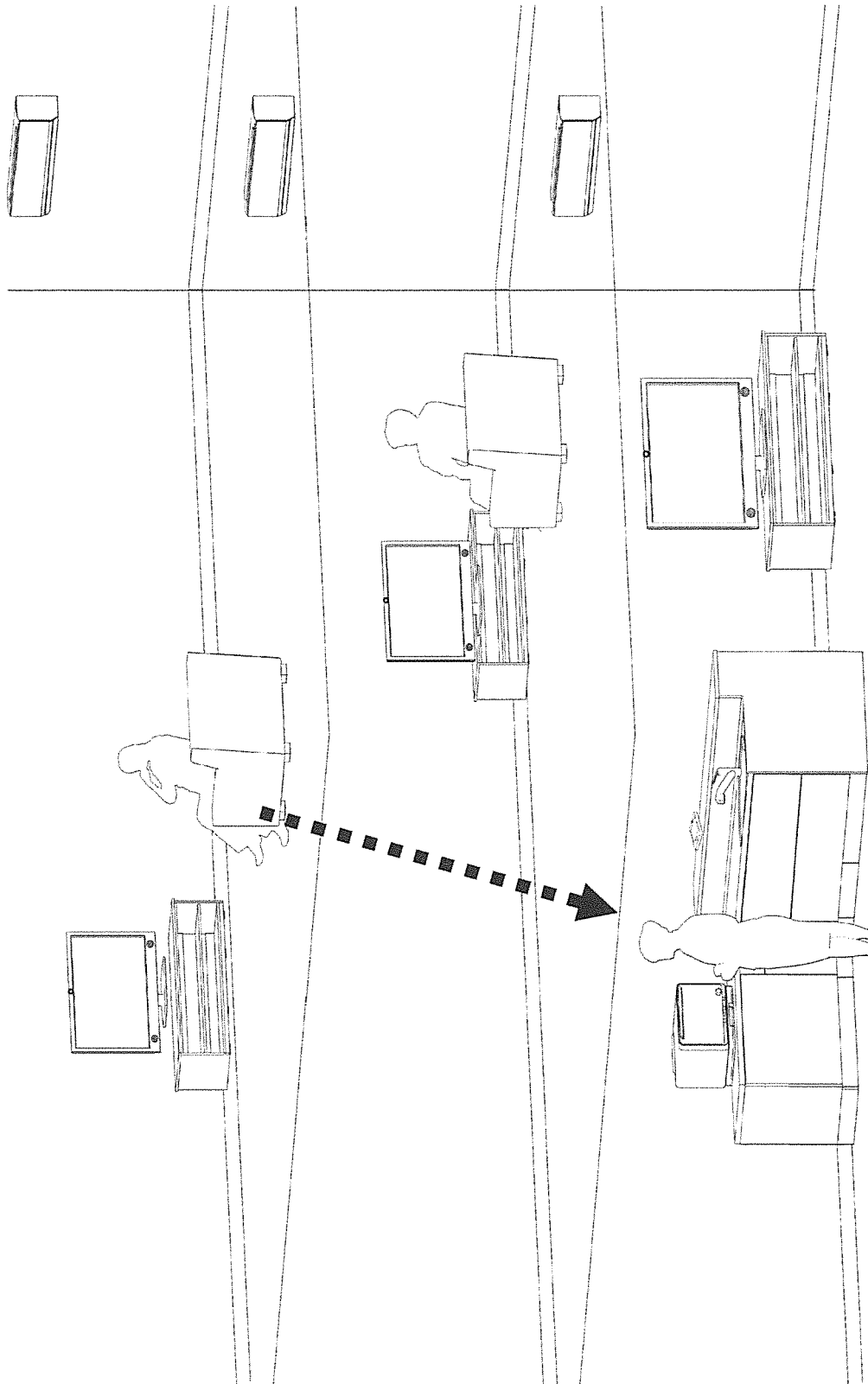
[図173]



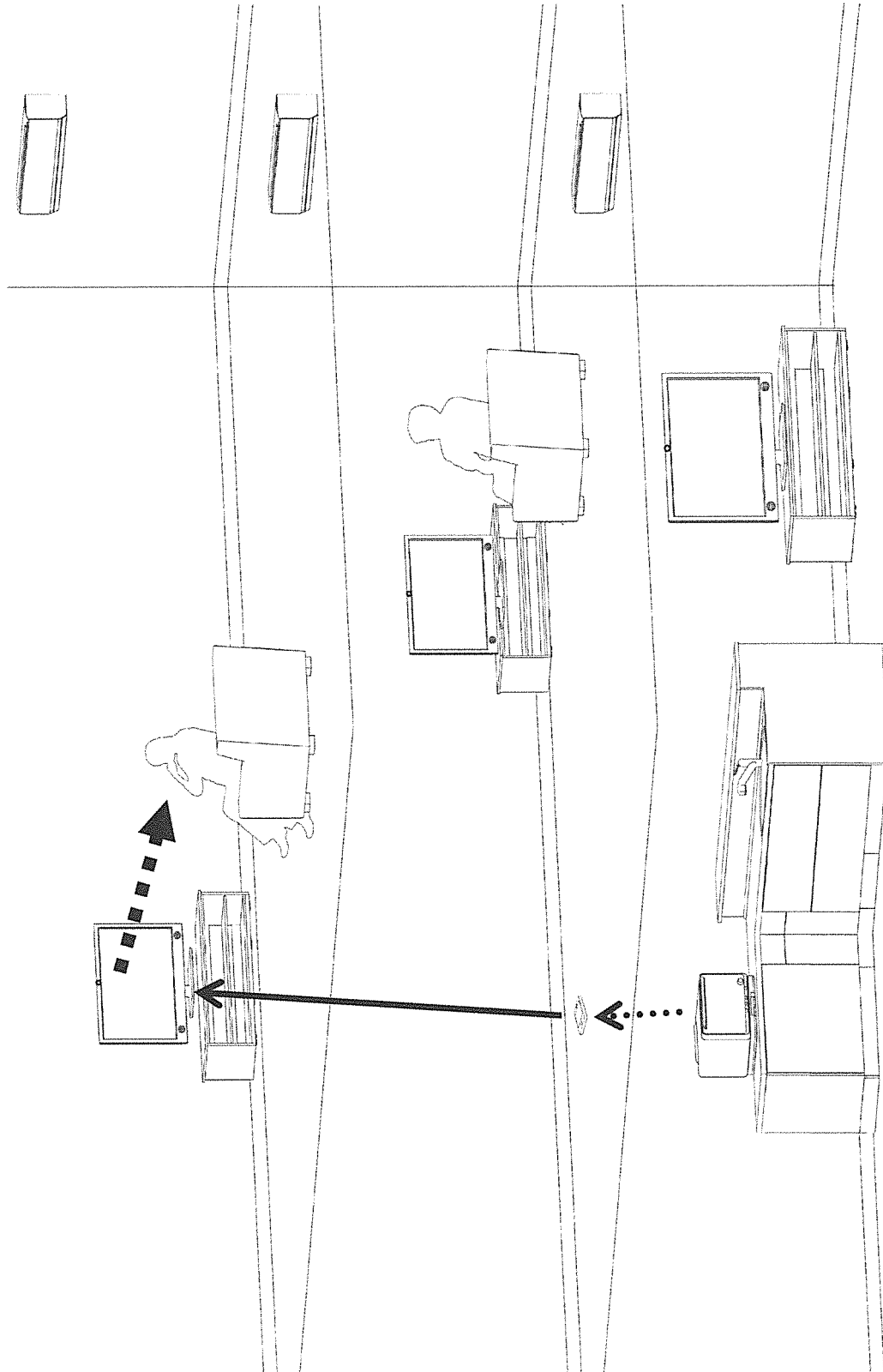
[図174]



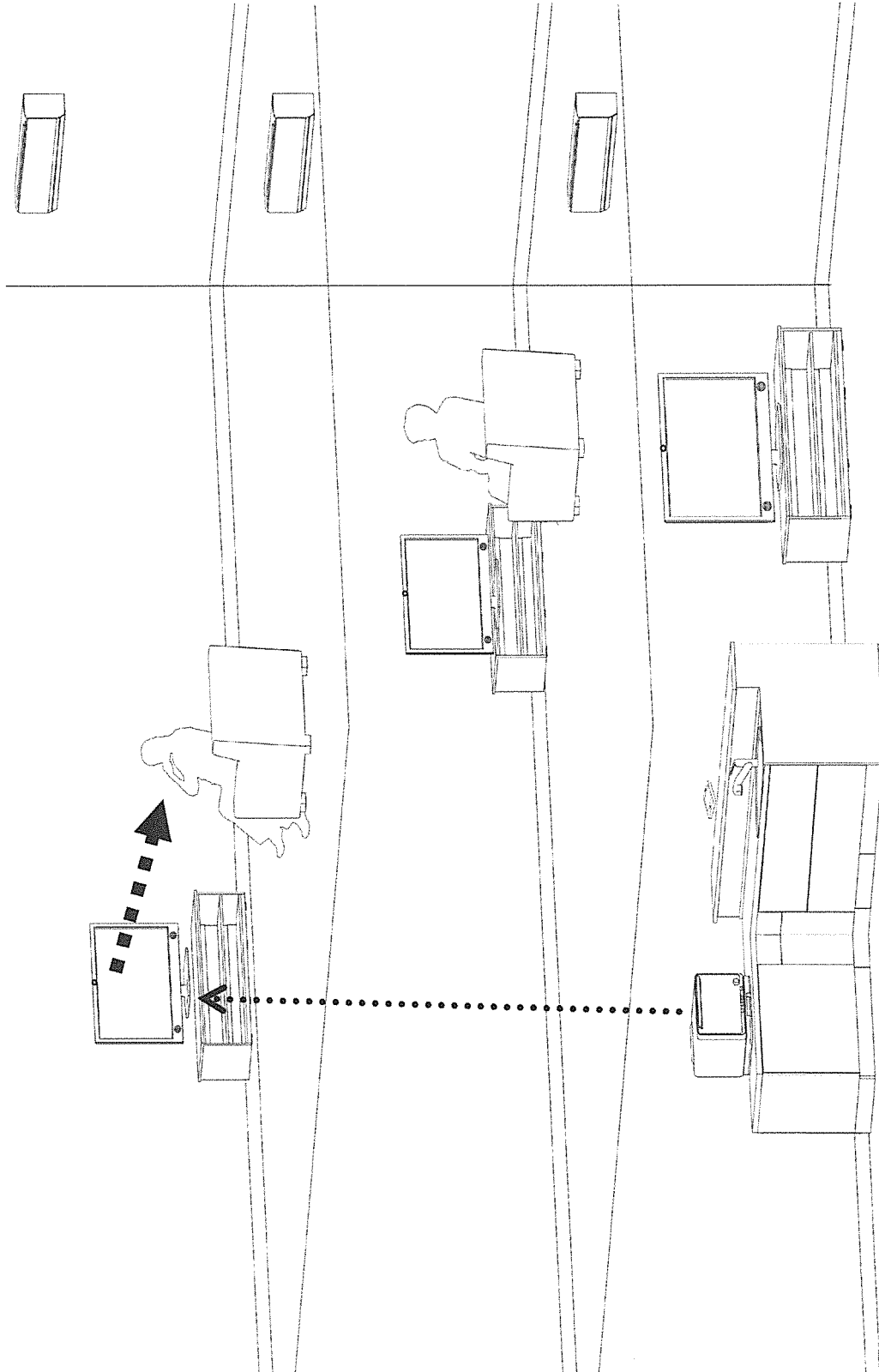
[図175]



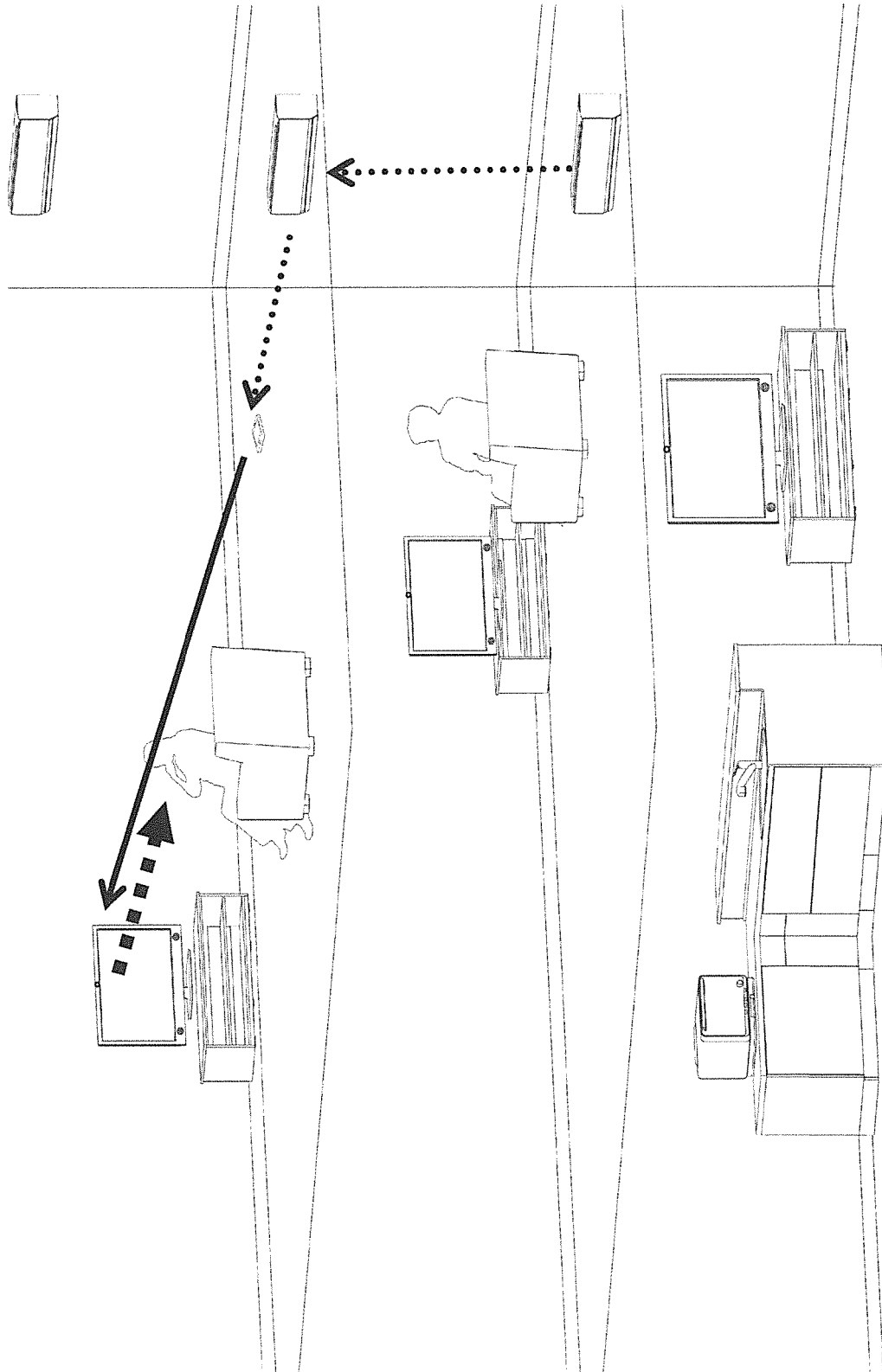
[図176]



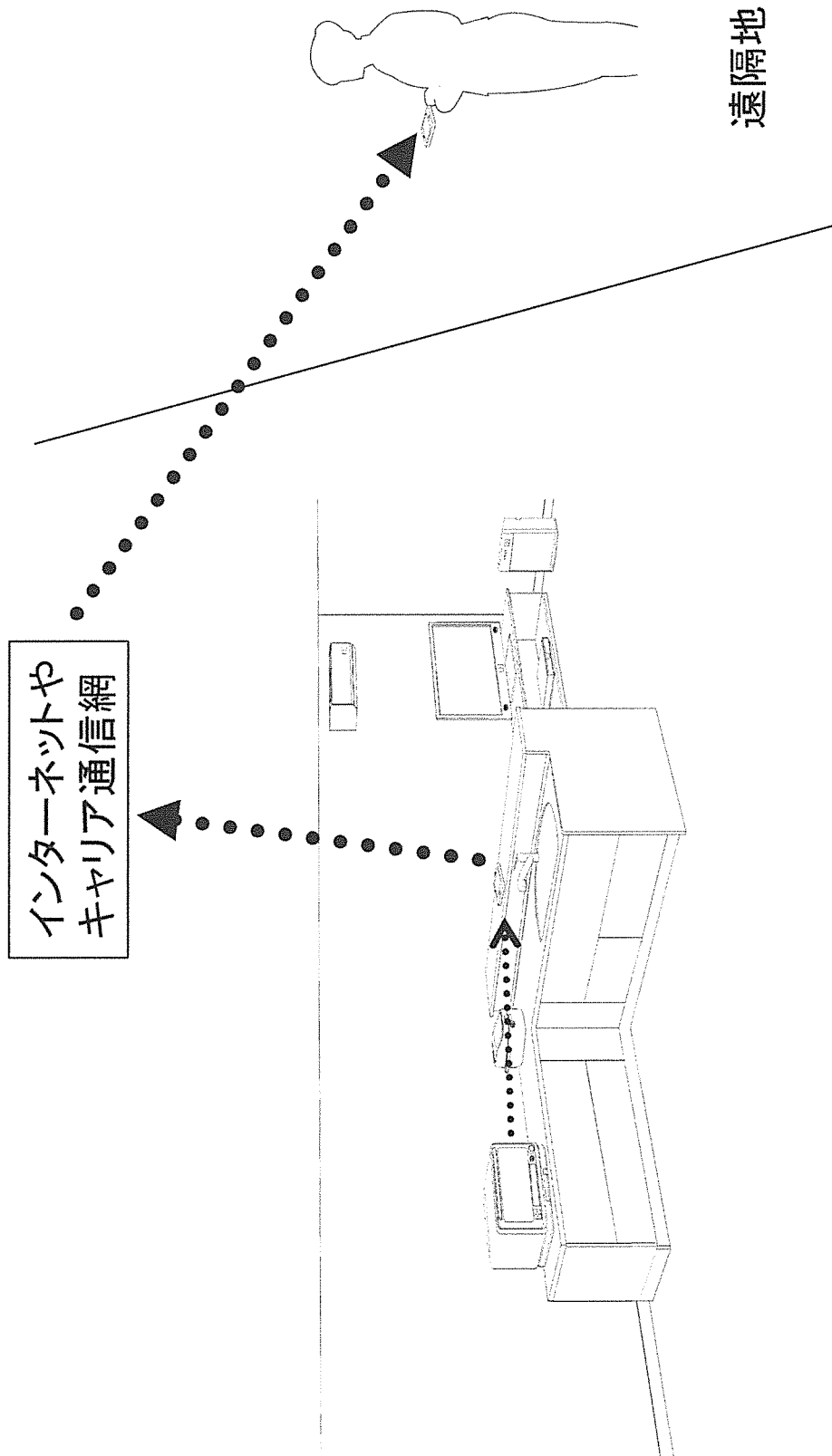
[図177]



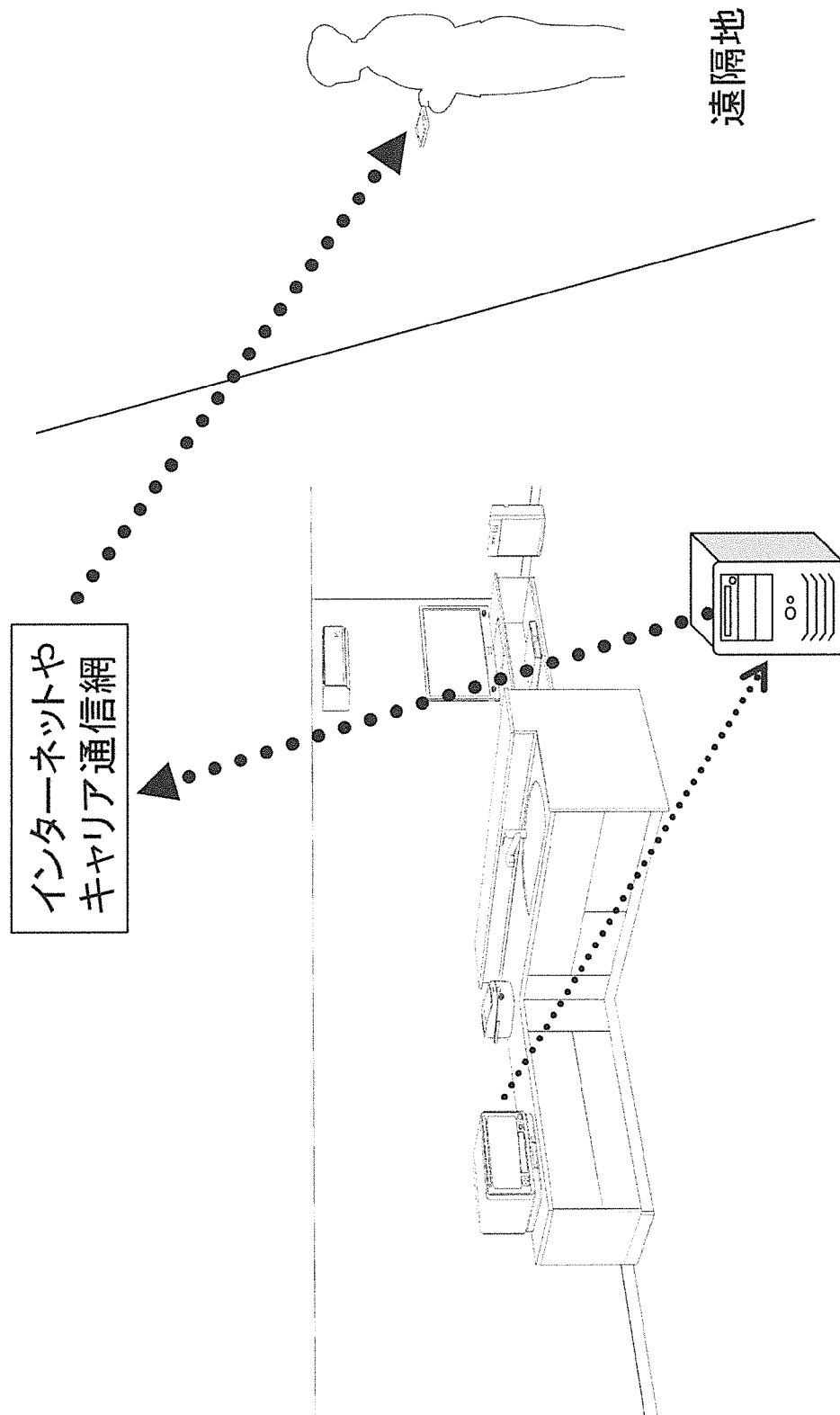
[図178]



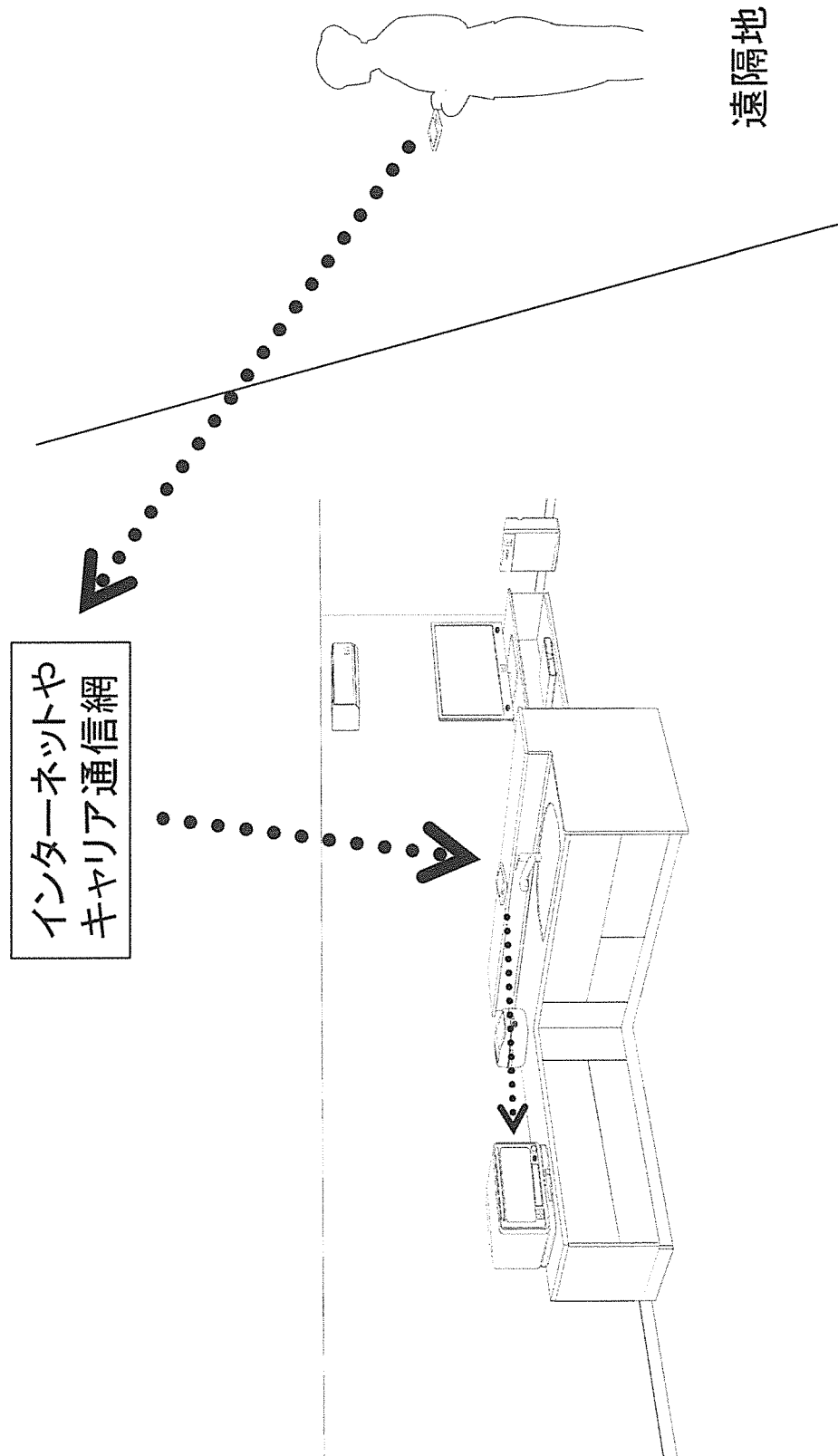
[図179]



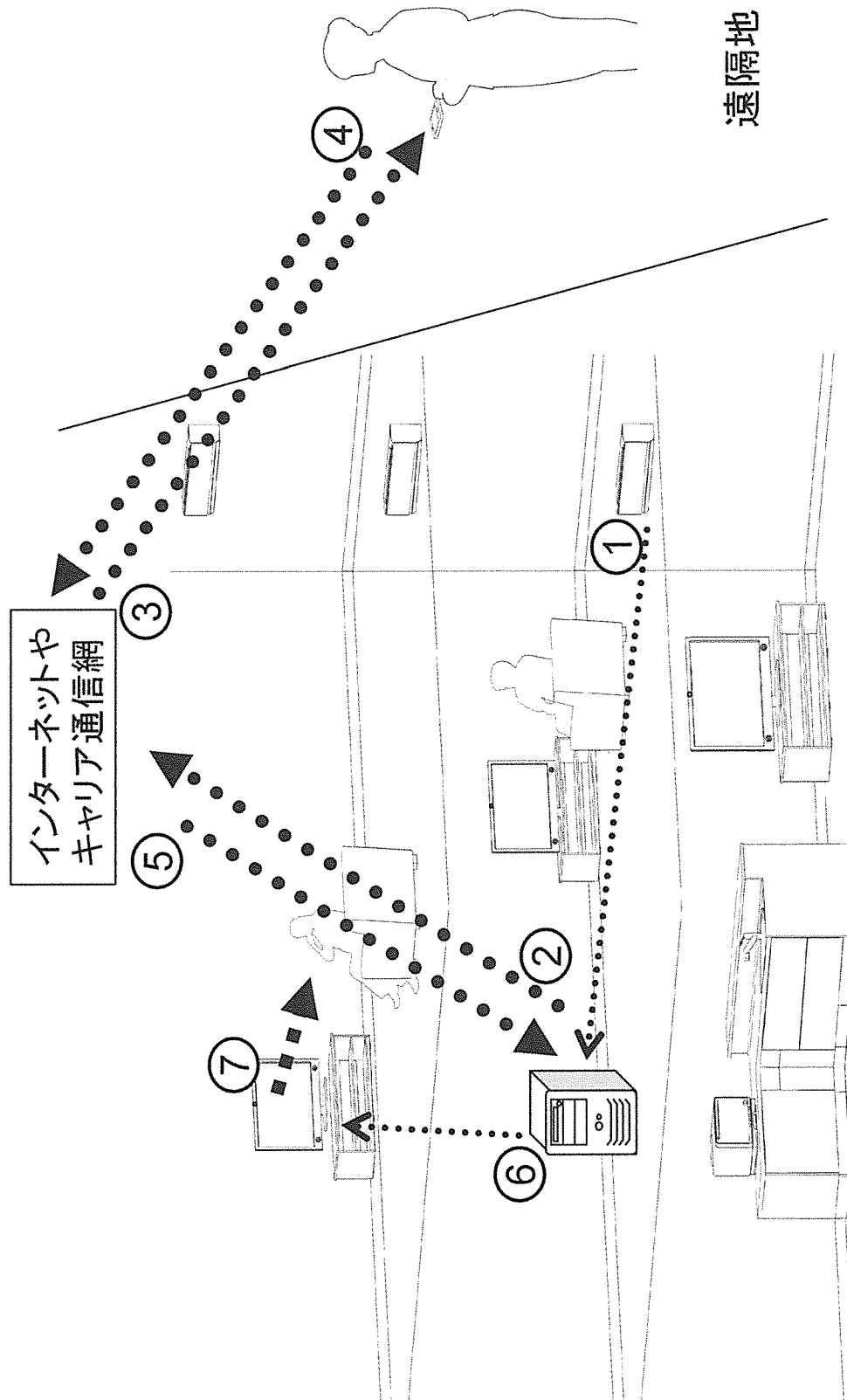
[図180]



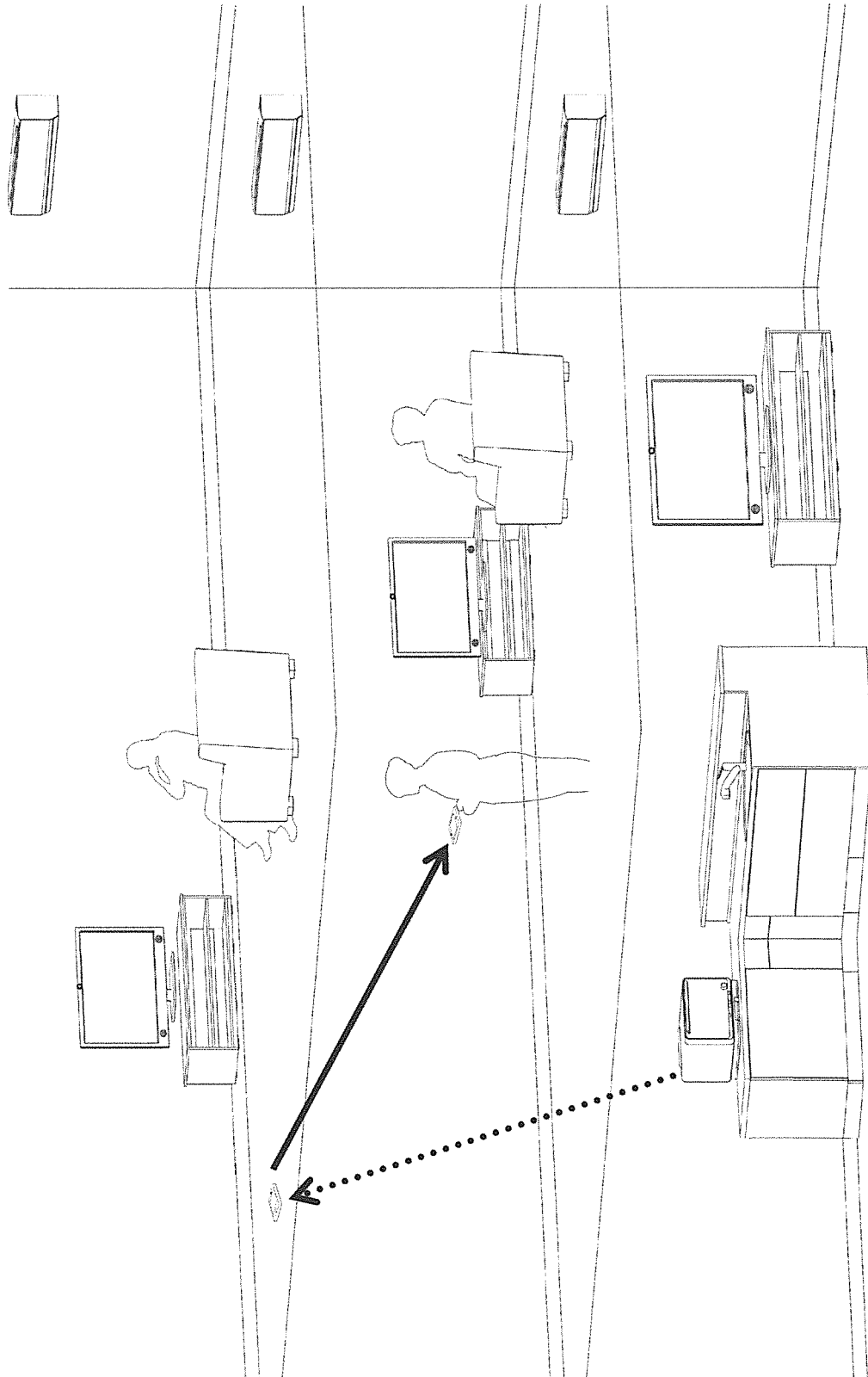
[図181]



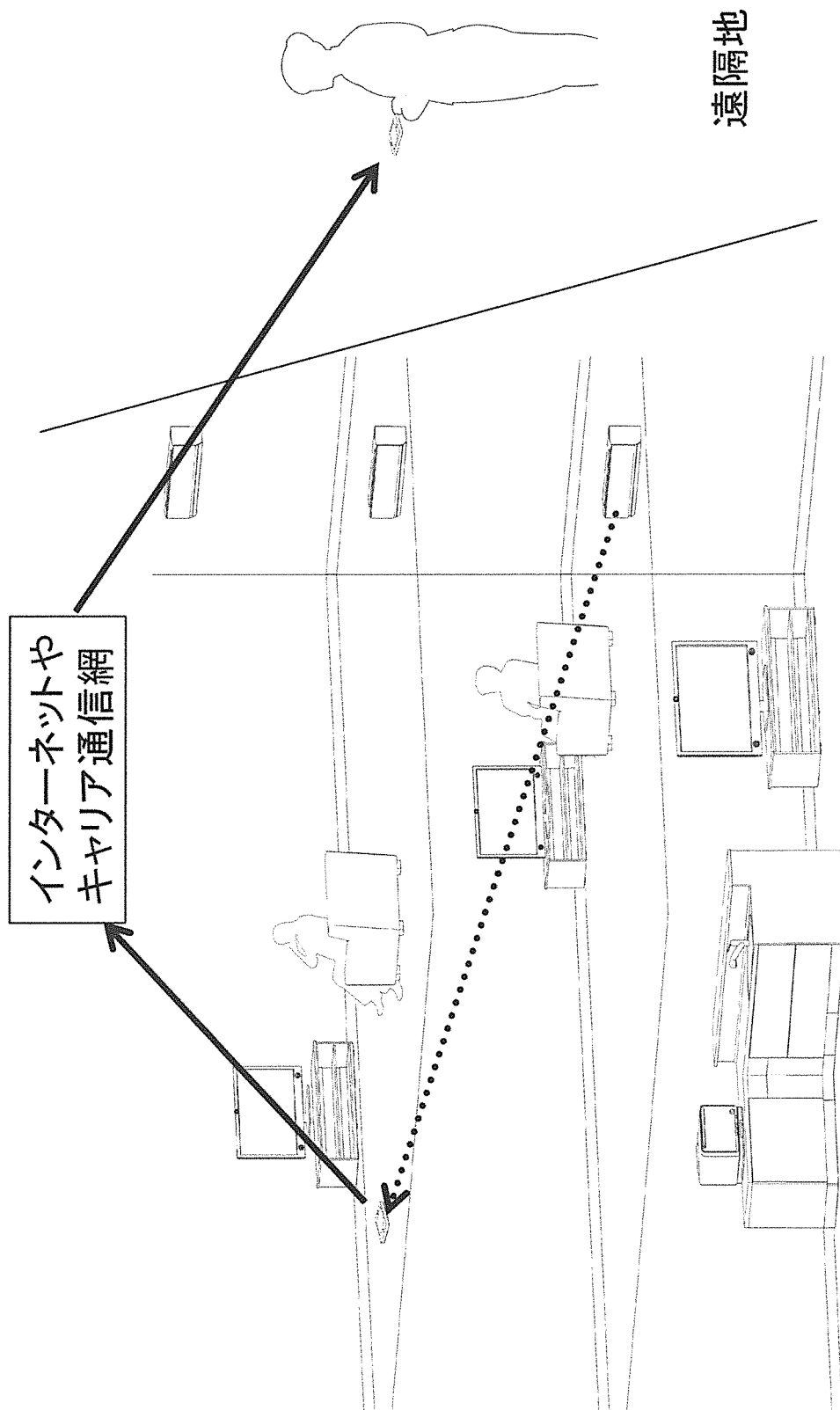
[図182]



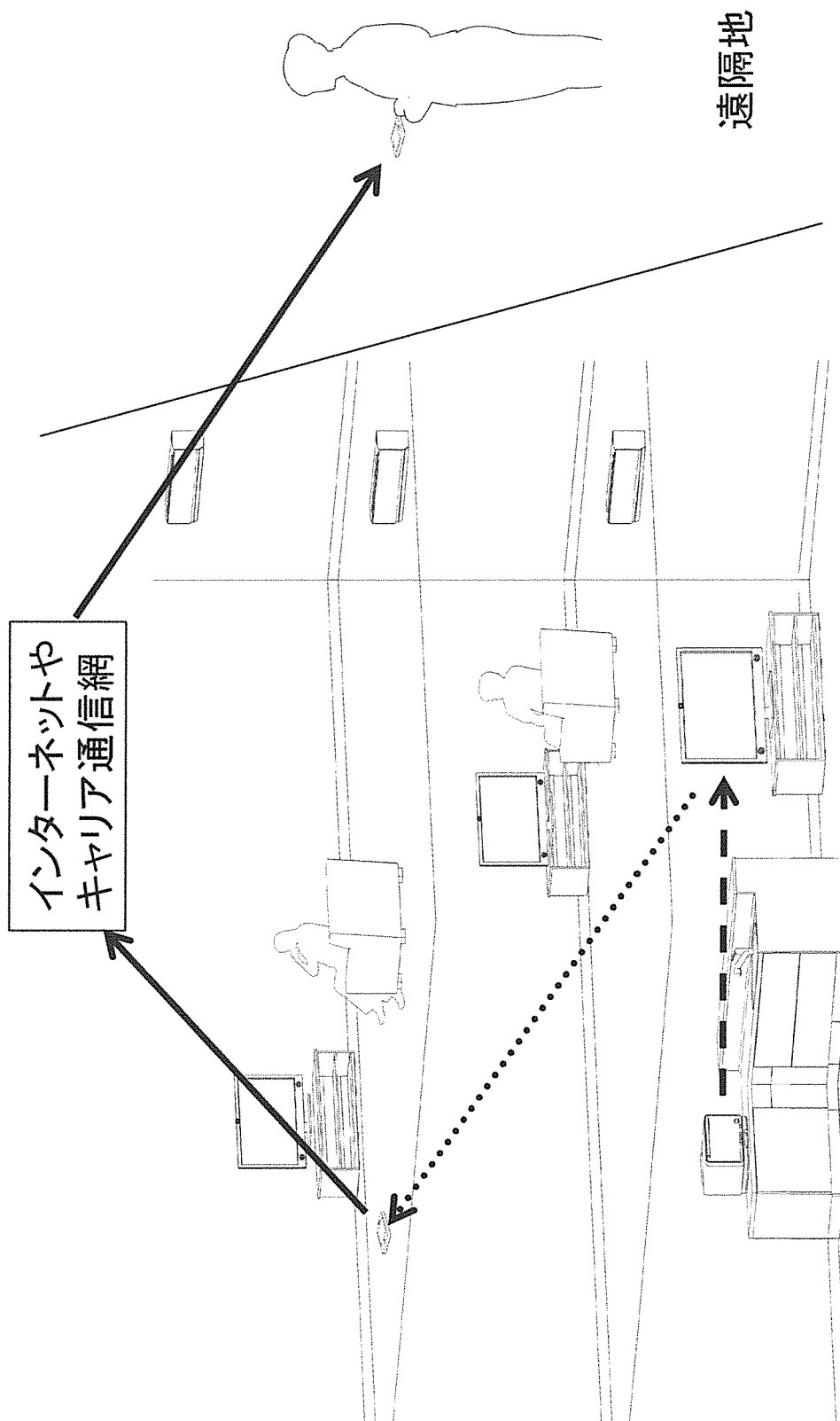
[図183]



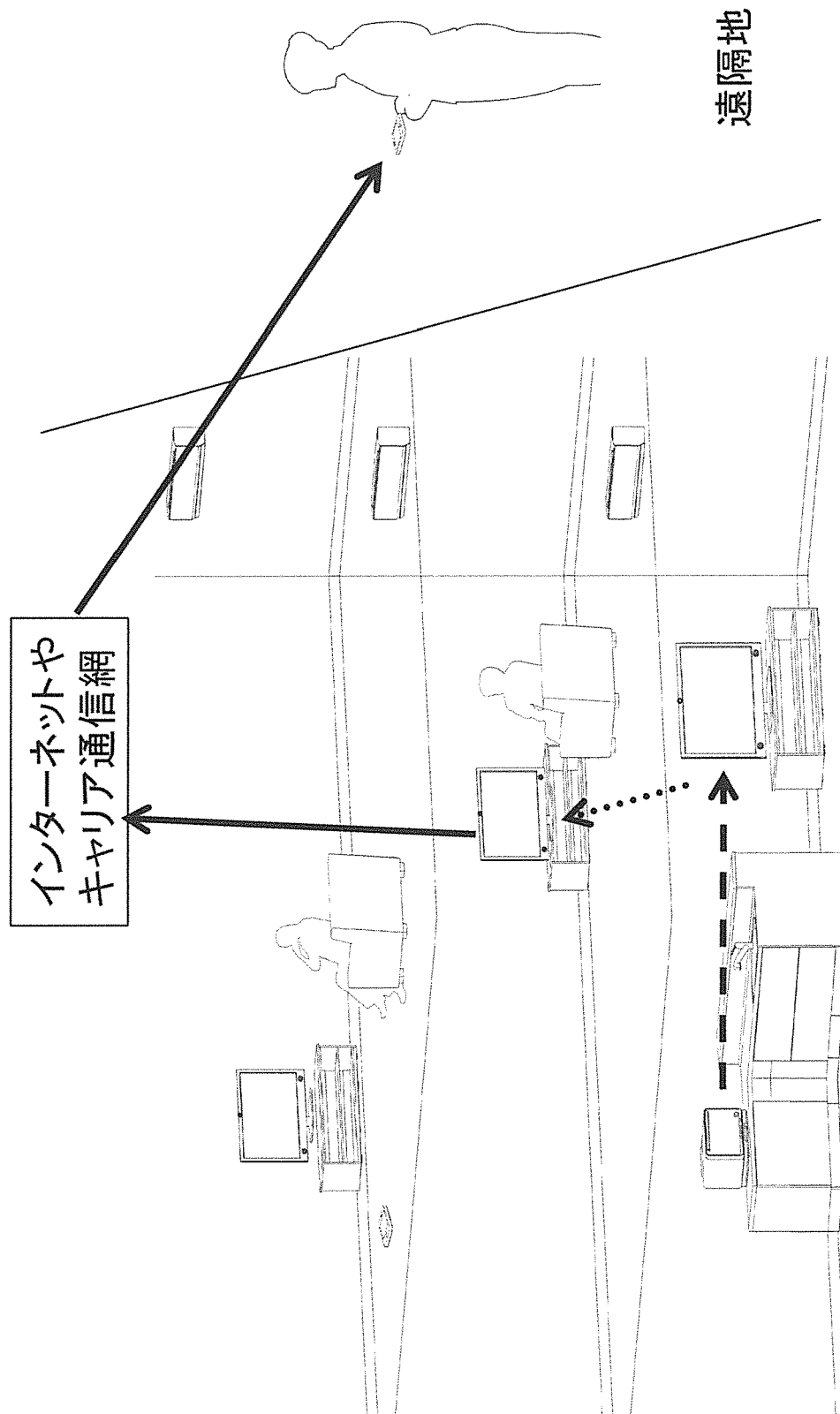
[図184]



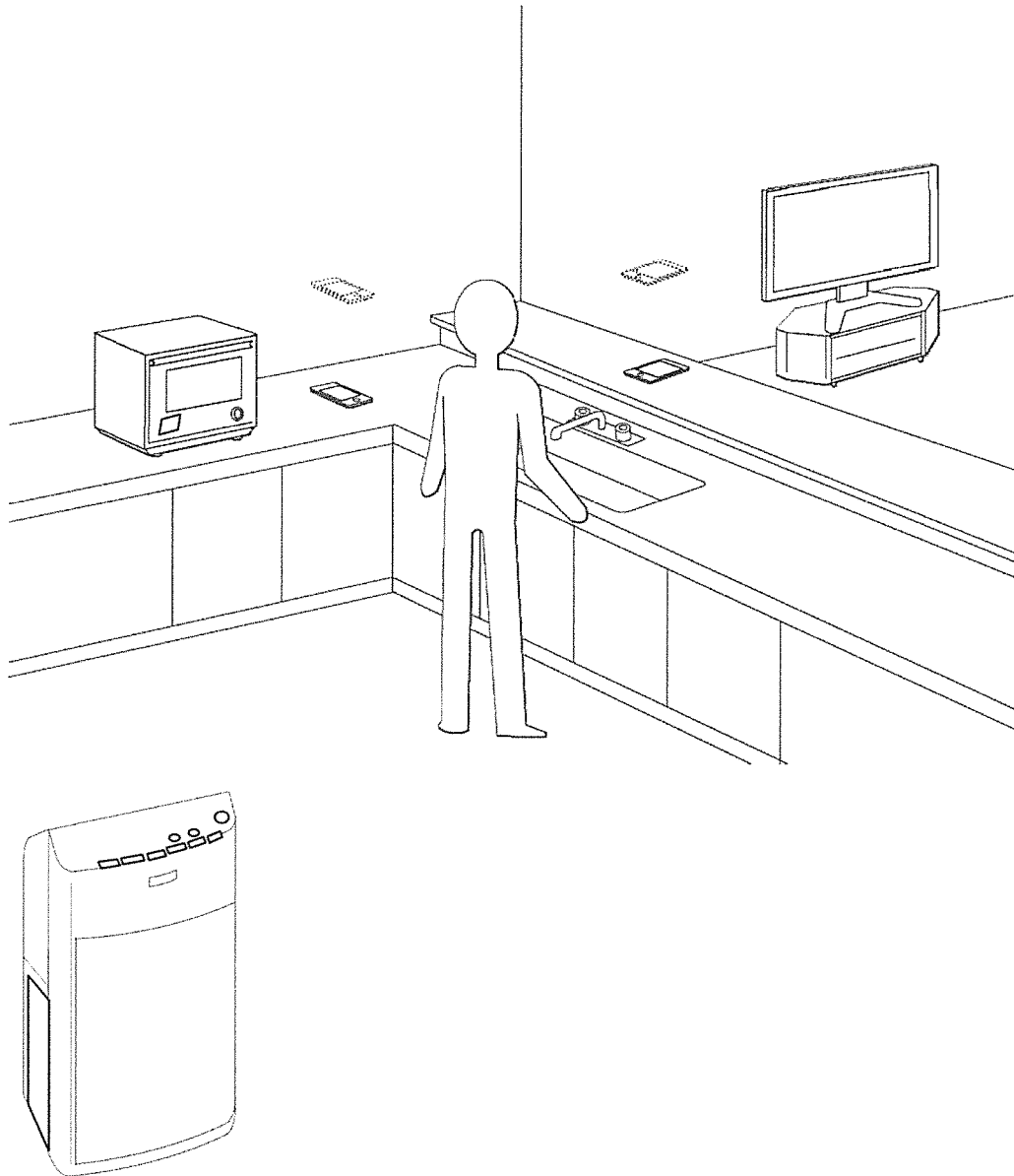
[図185]



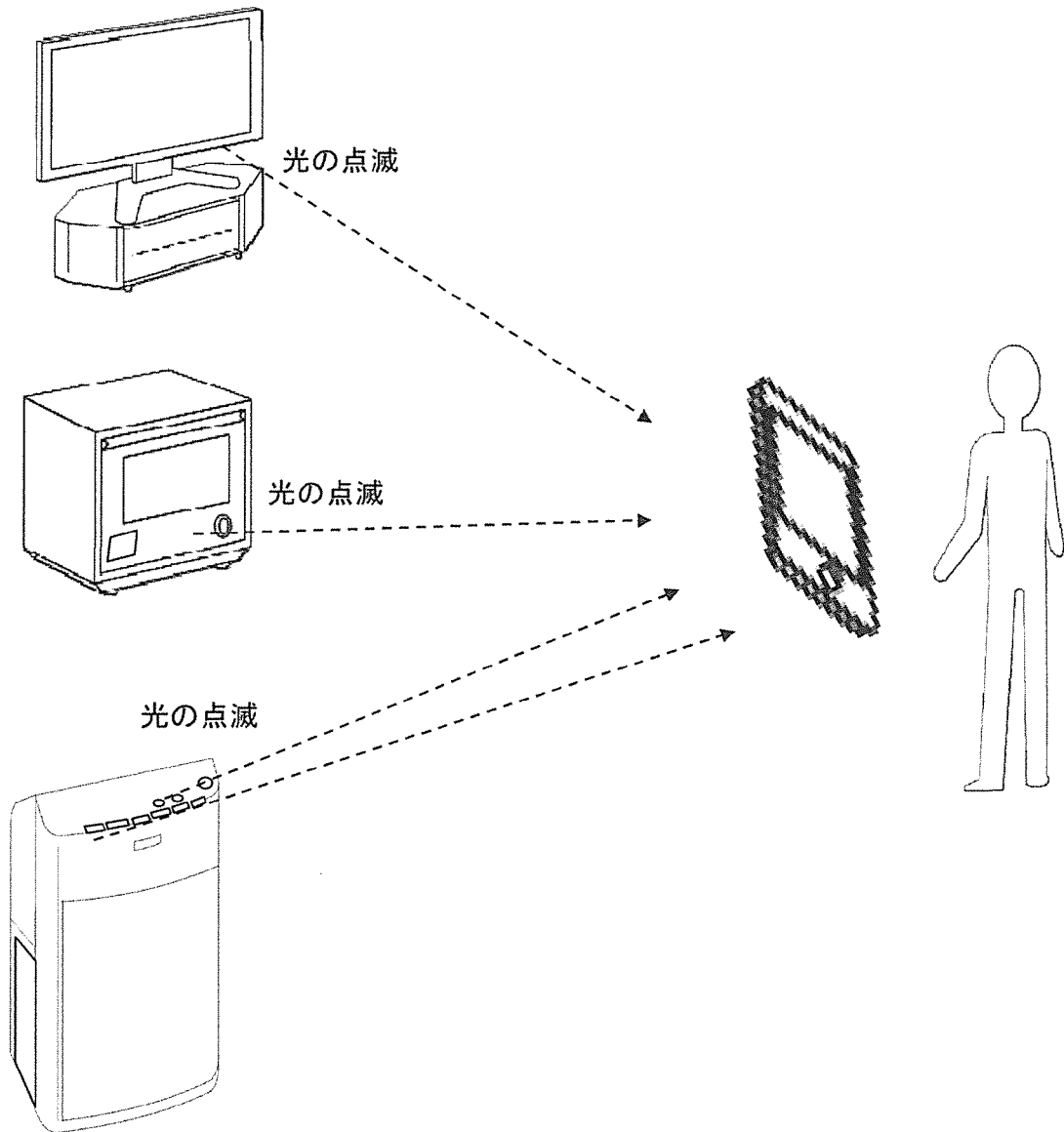
[図186]



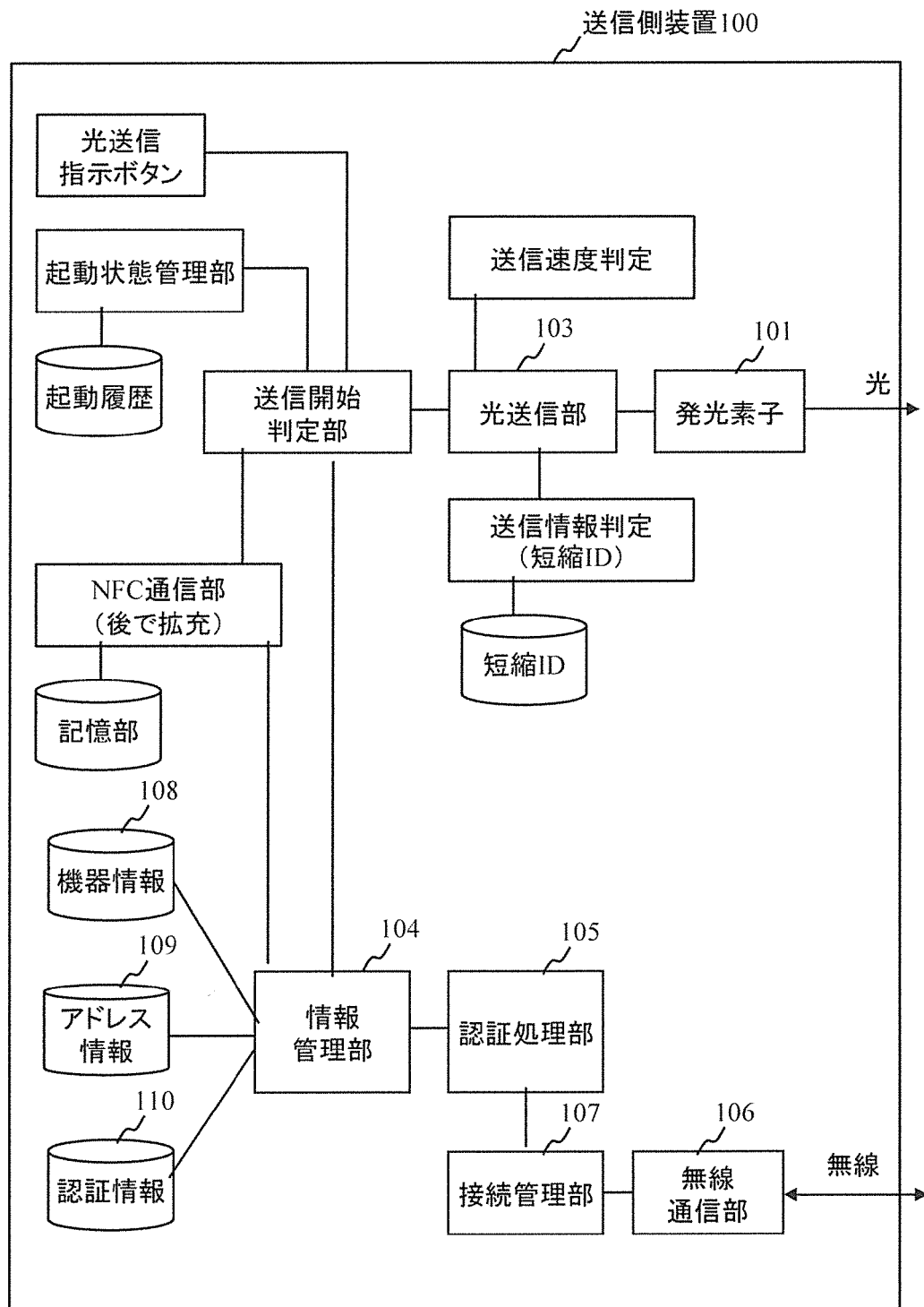
[図187]



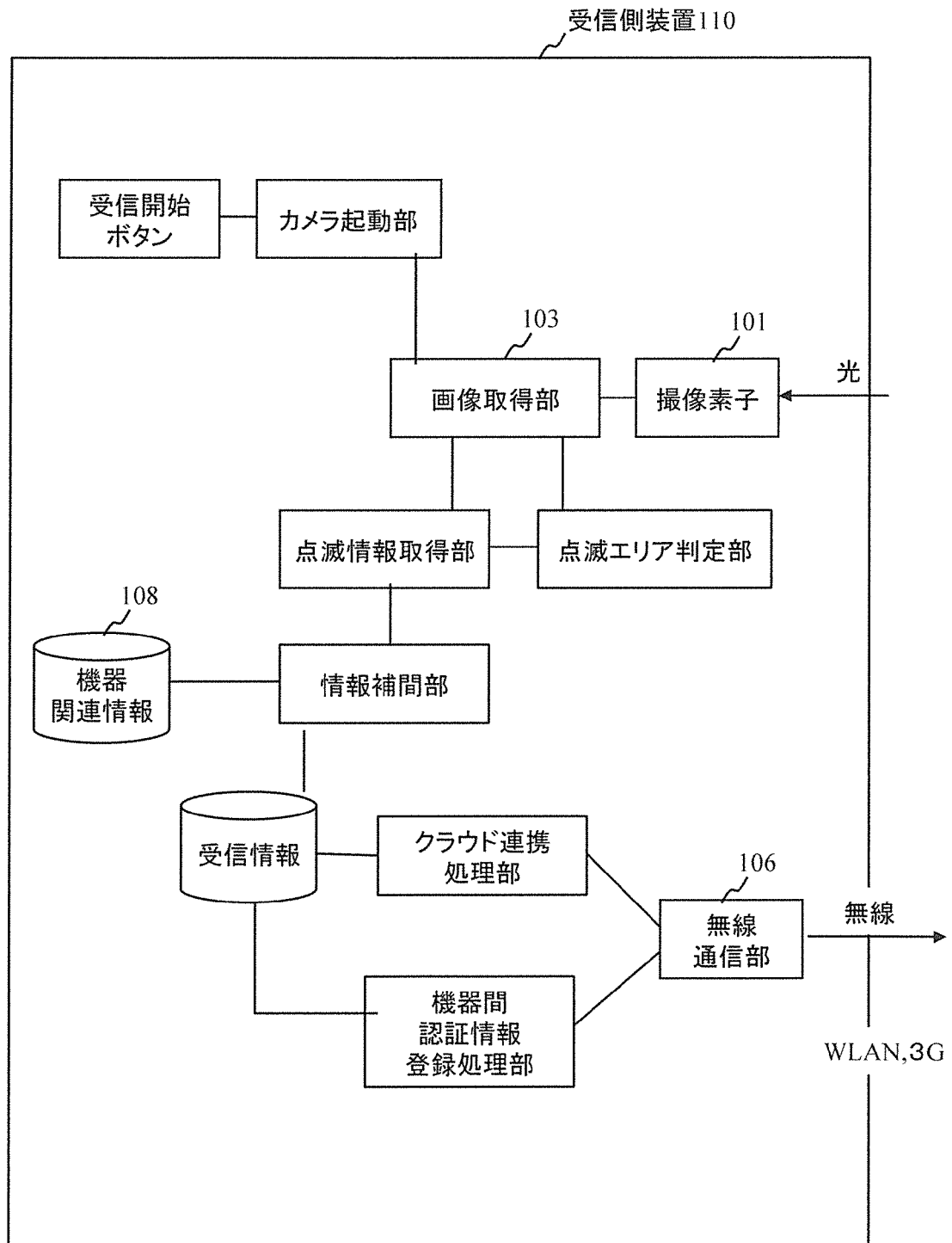
[図188]



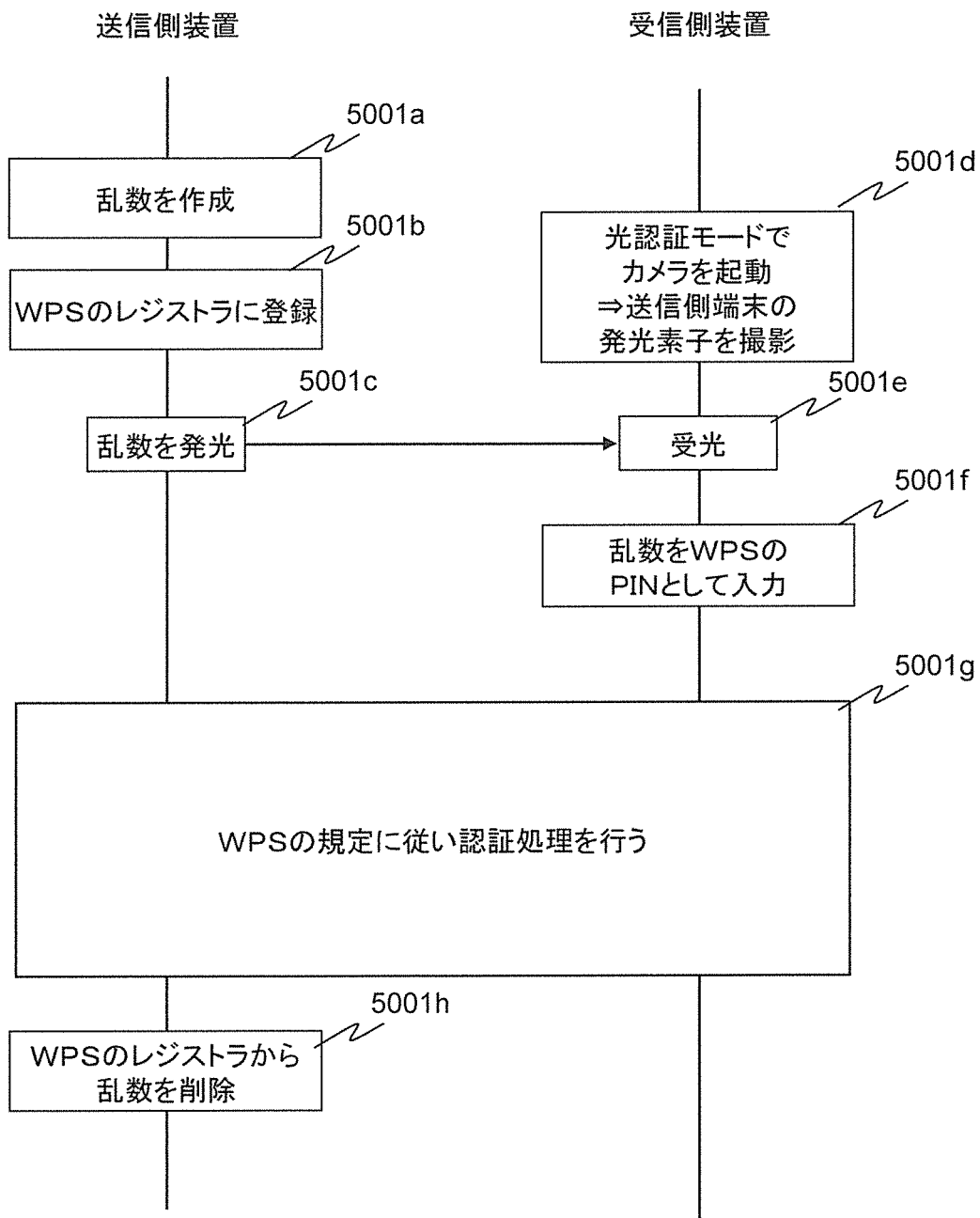
[図189]



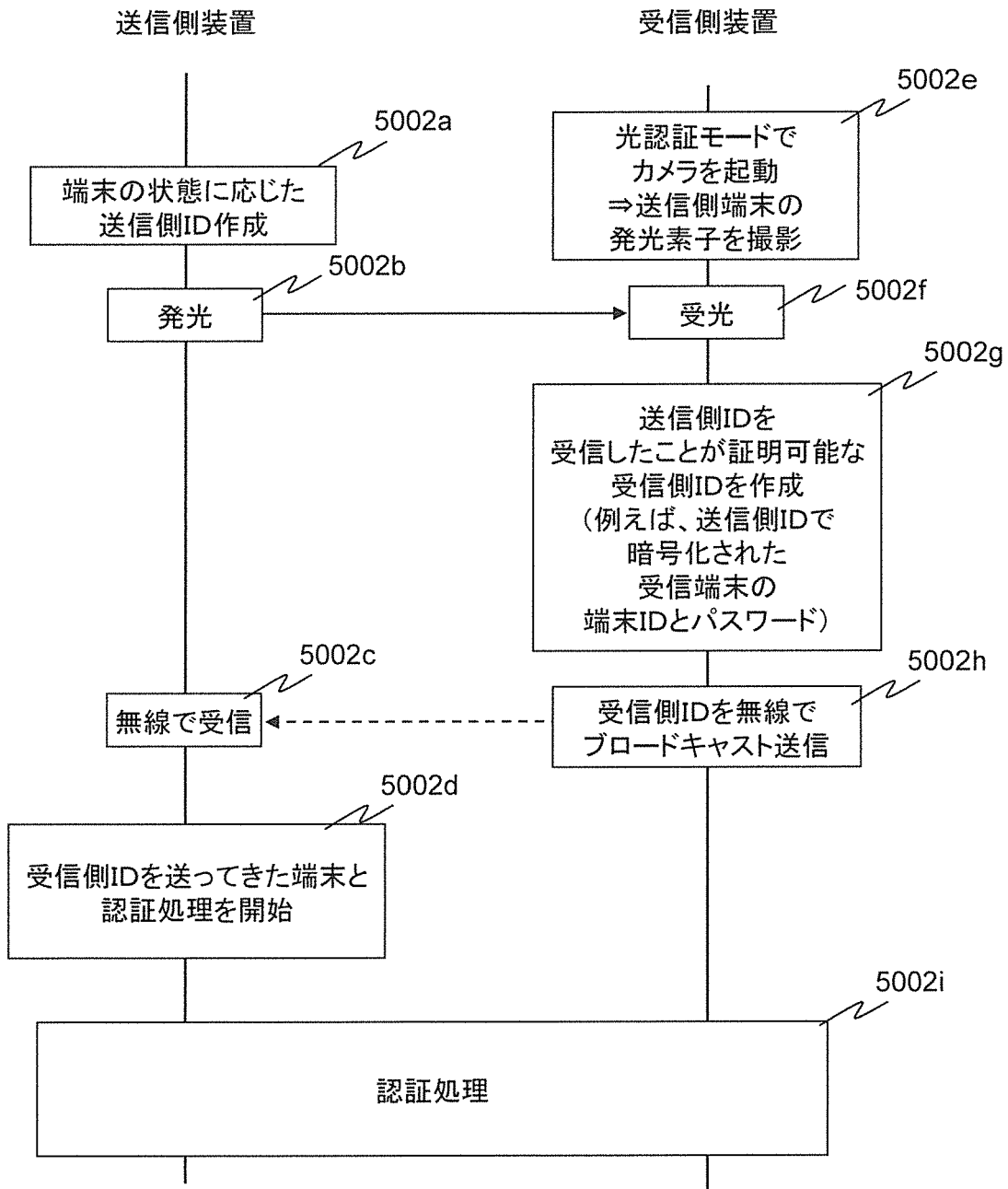
[図190]



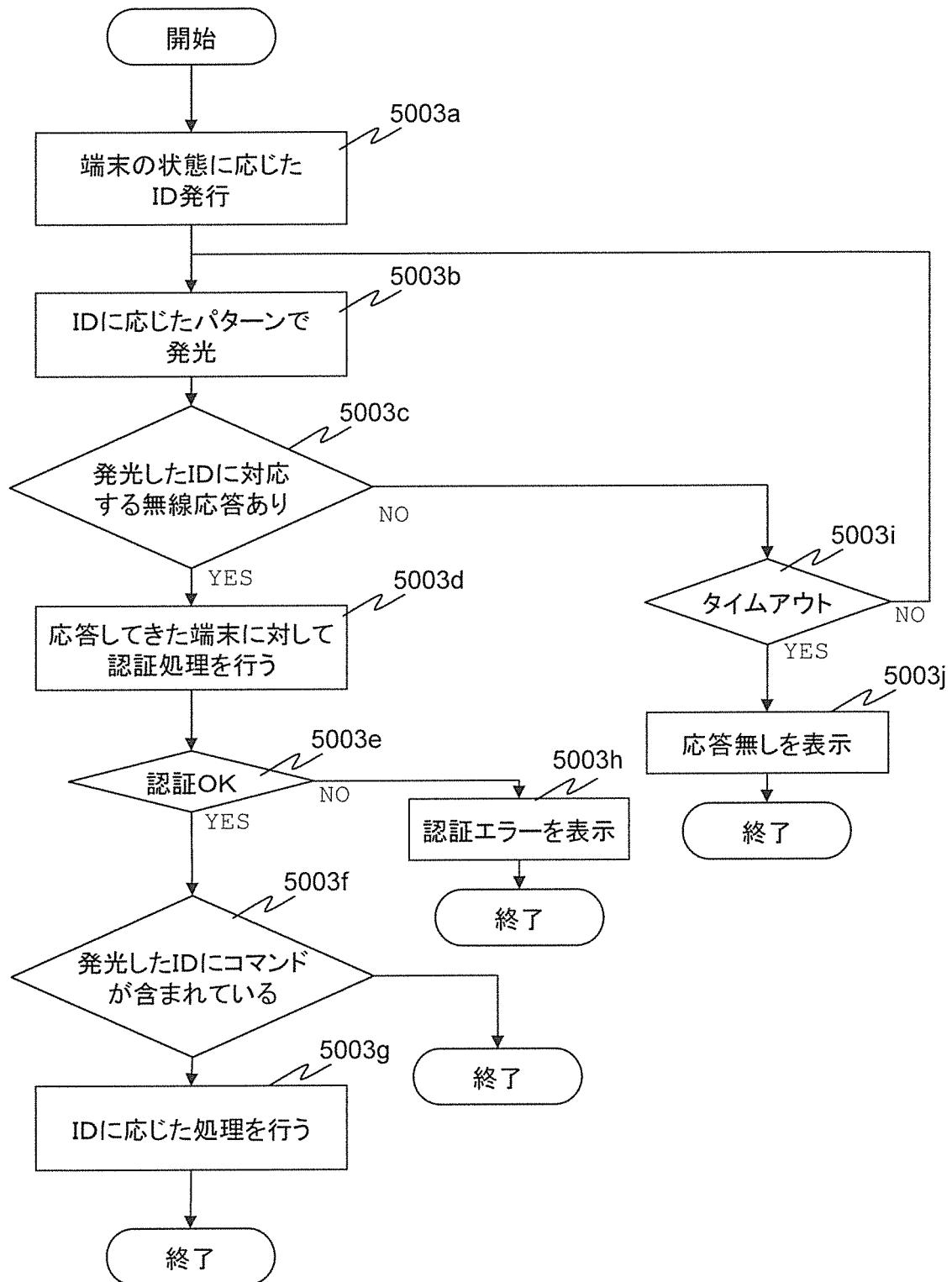
[図191]



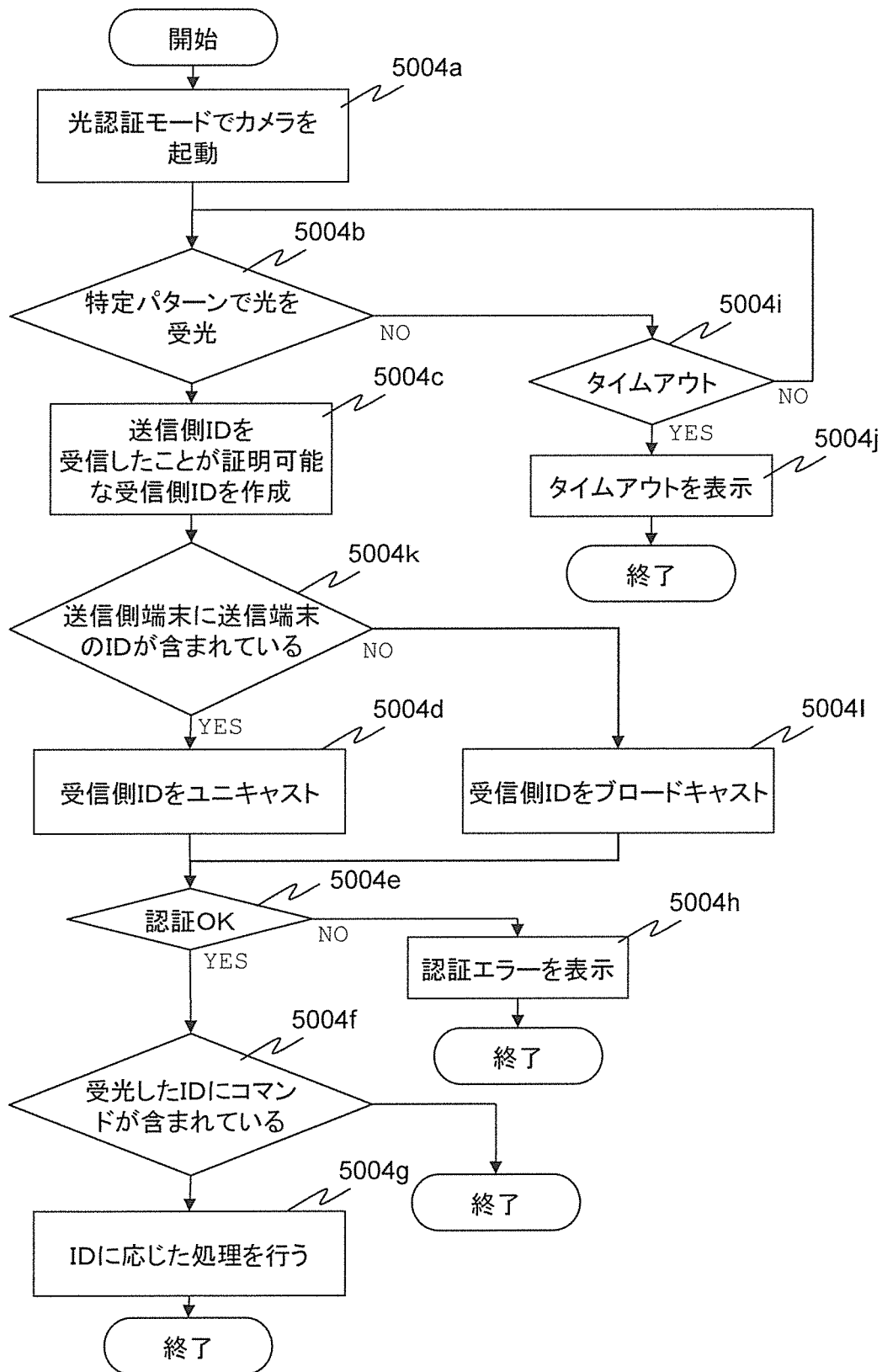
[図192]



[図193]

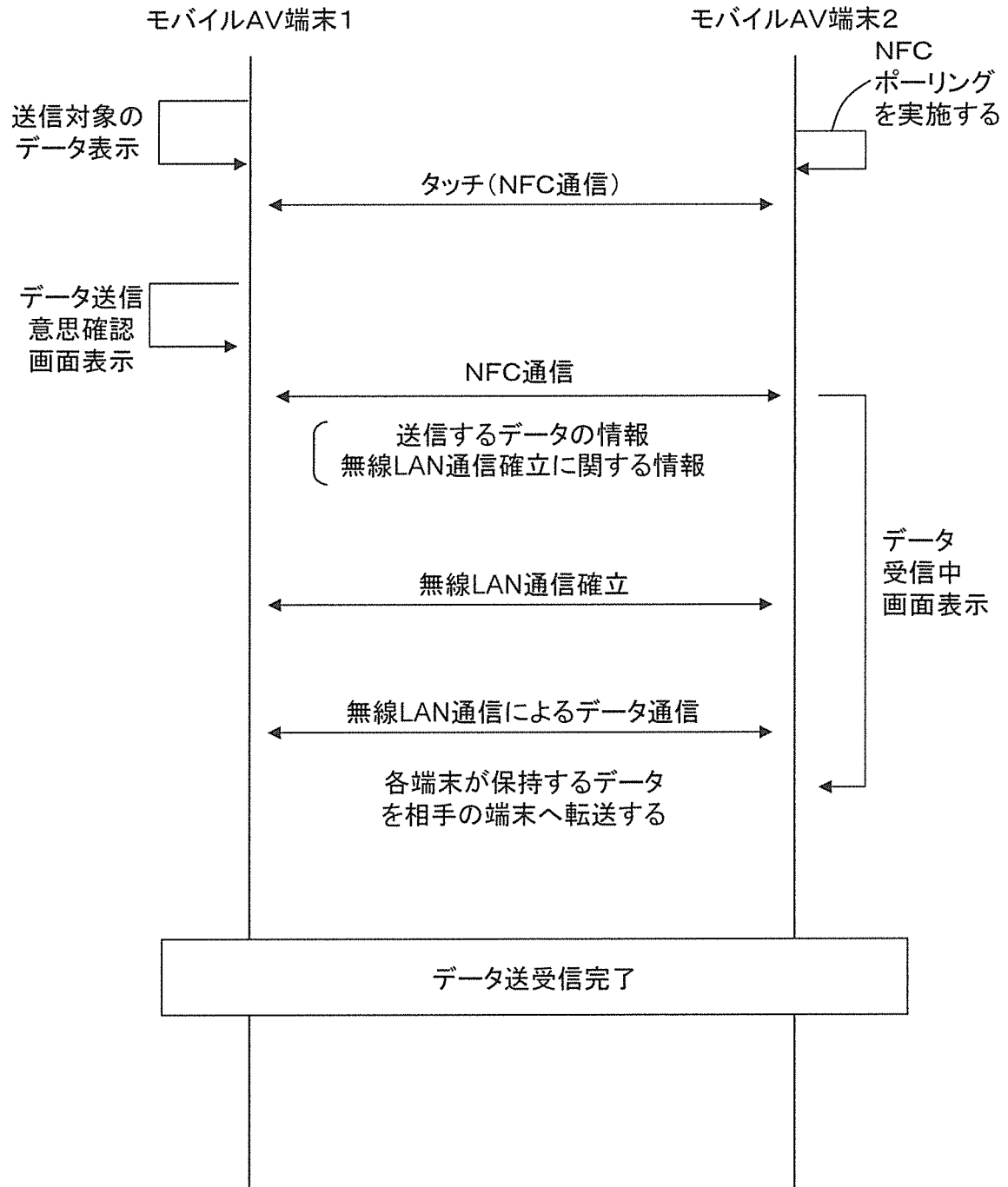


[図194]



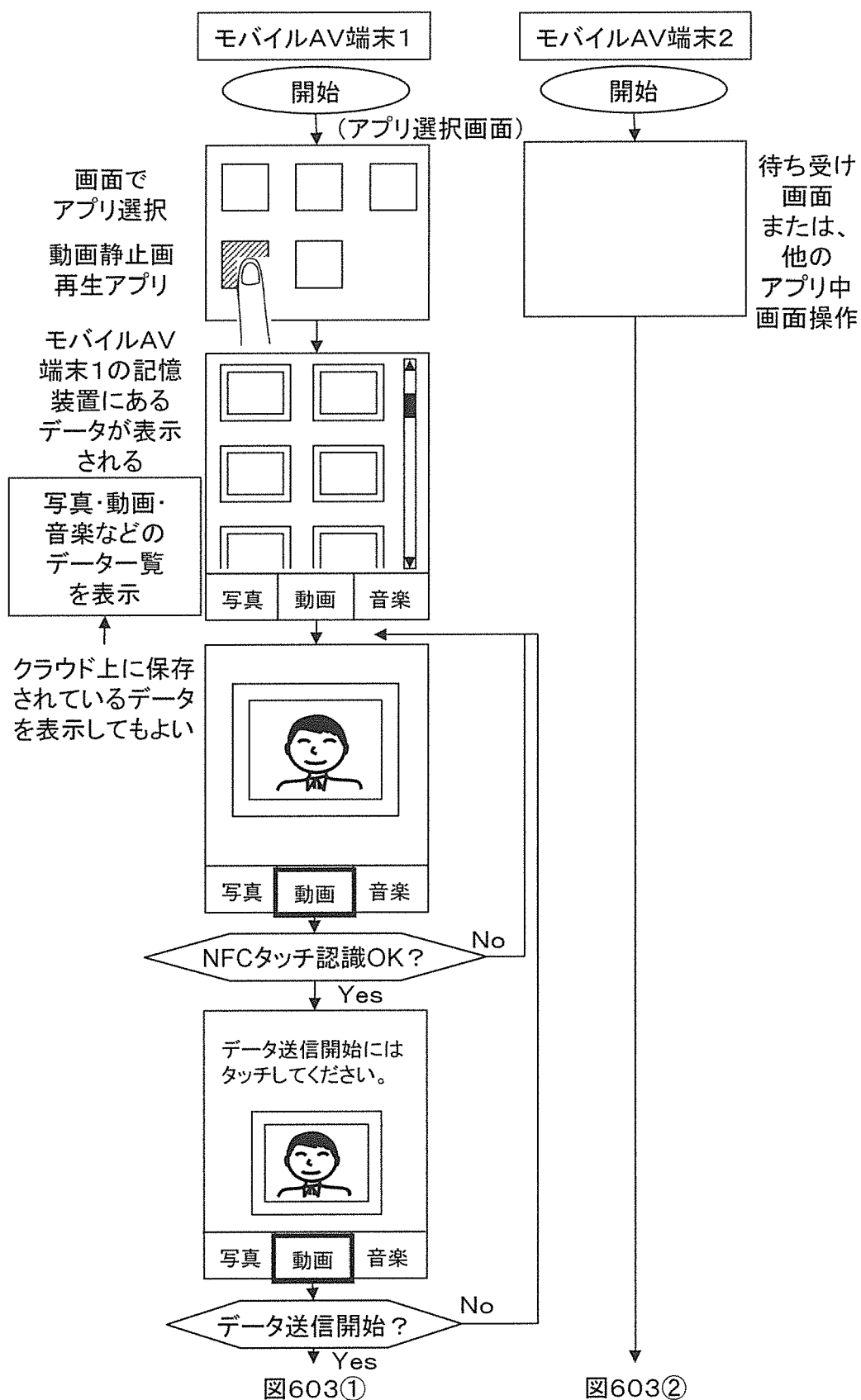
[図195]

NFC・高速無線通信を用いたデータ送受信のシーケンス図

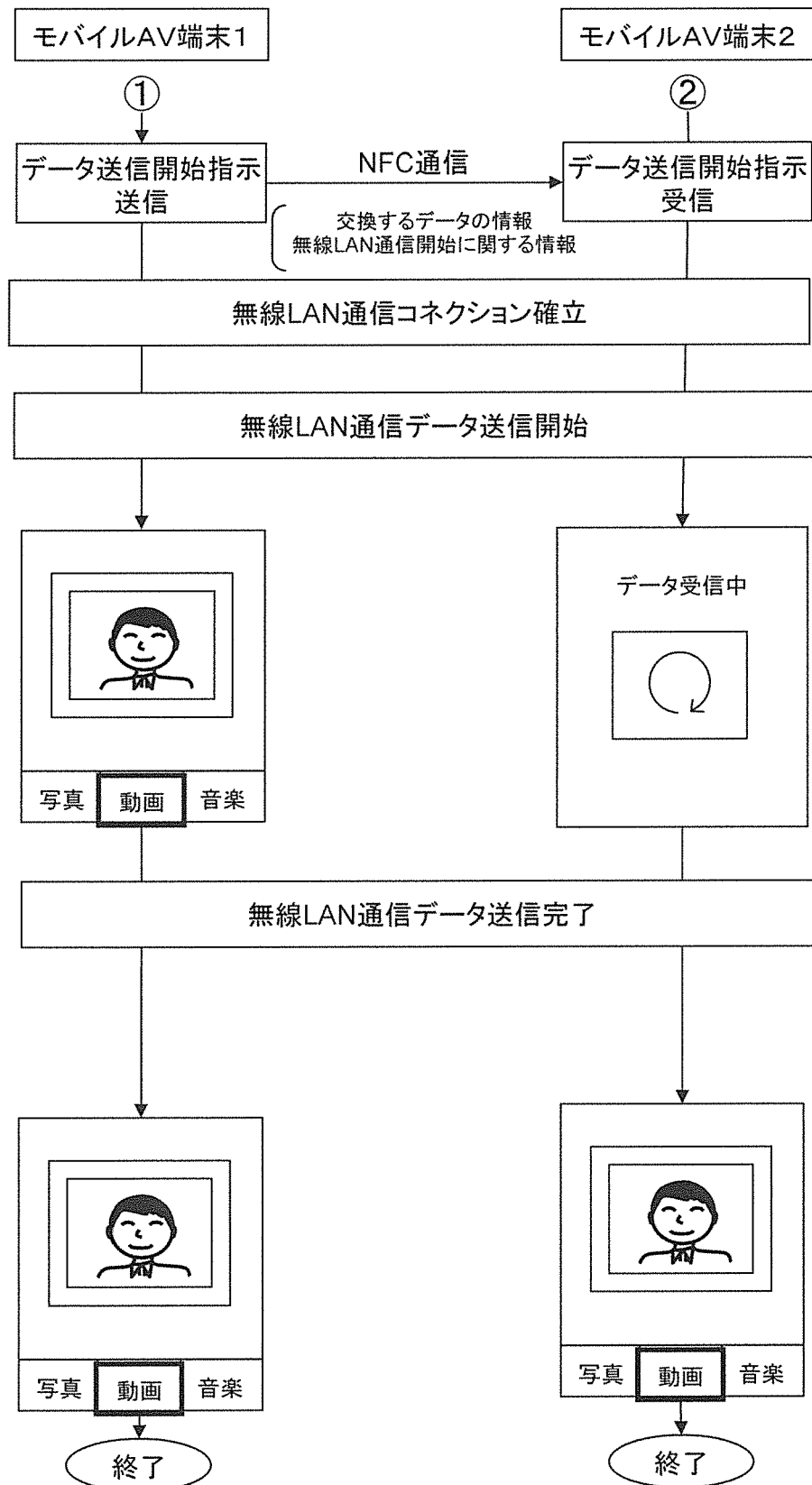


[図196]

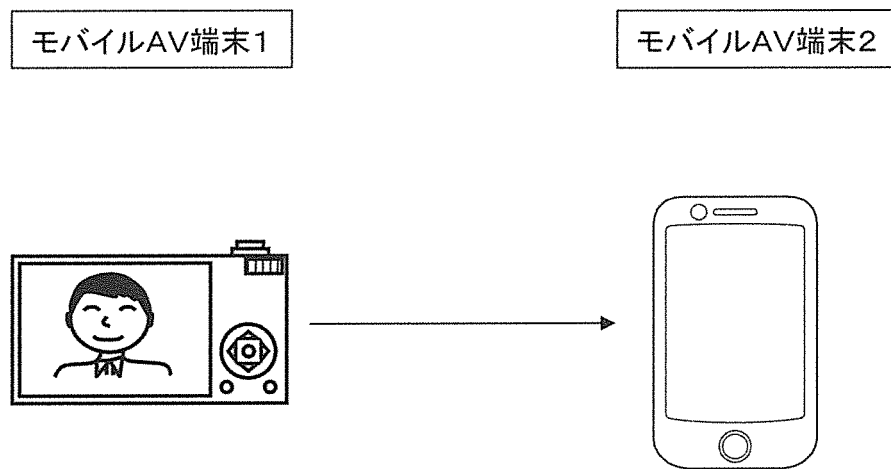
NFC・高速無線通信を用いたデータ交換の端末画面フロー



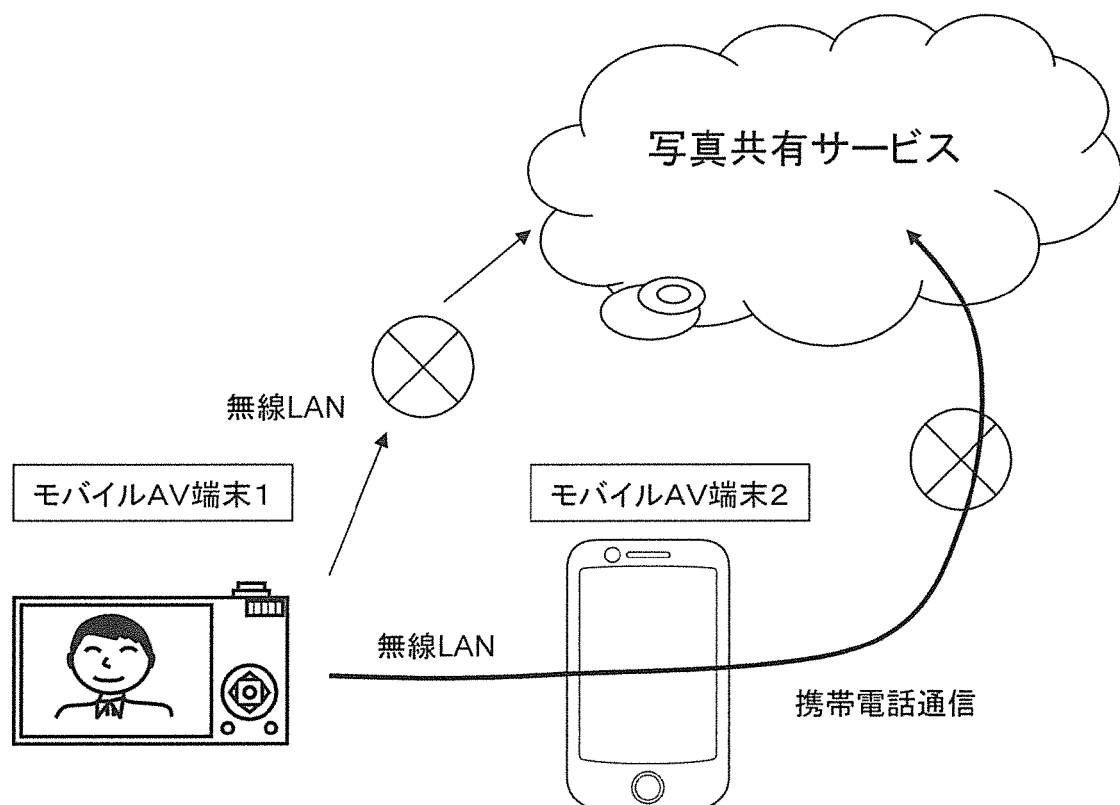
[図197]



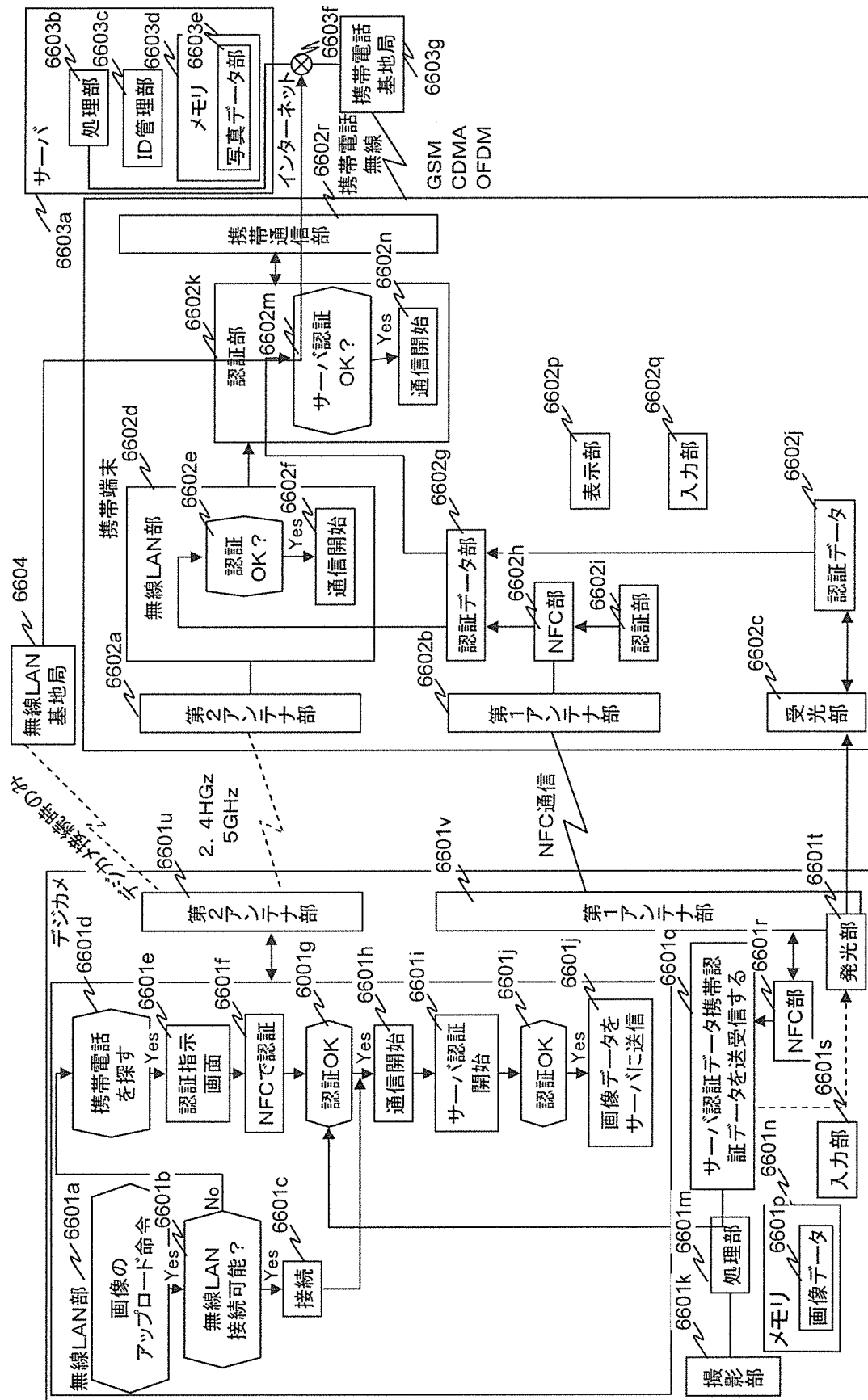
[図198]



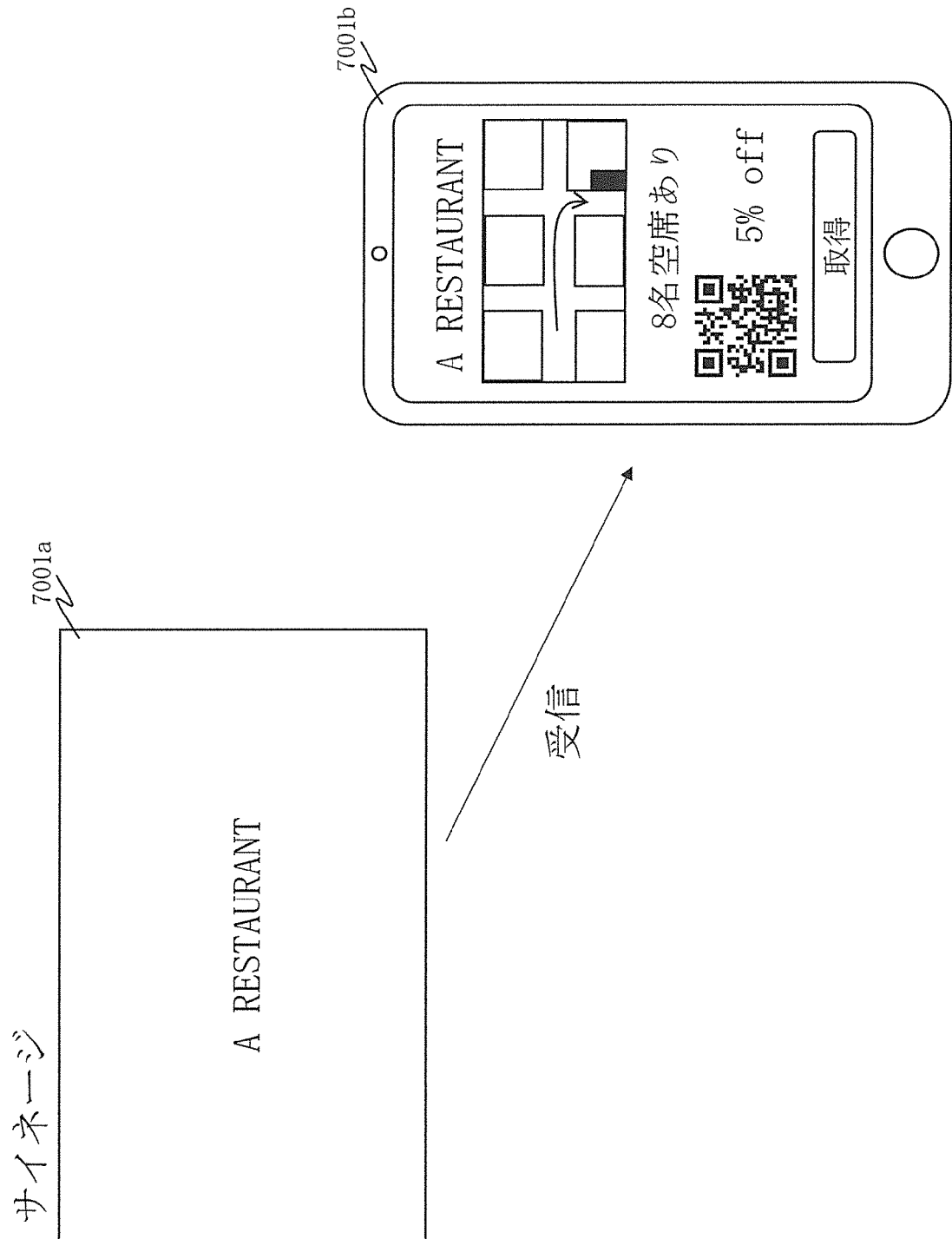
[図199]



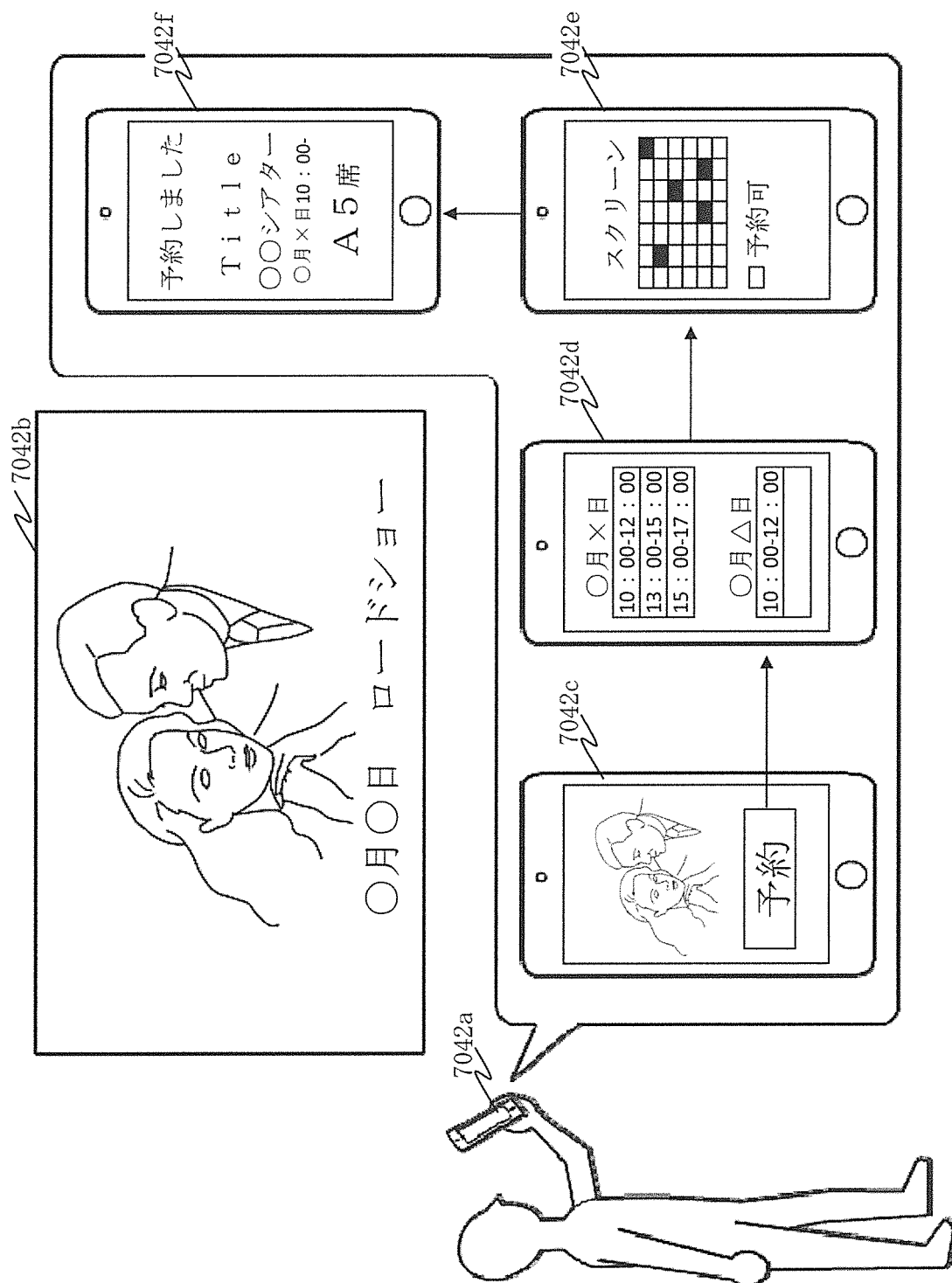
[図200]



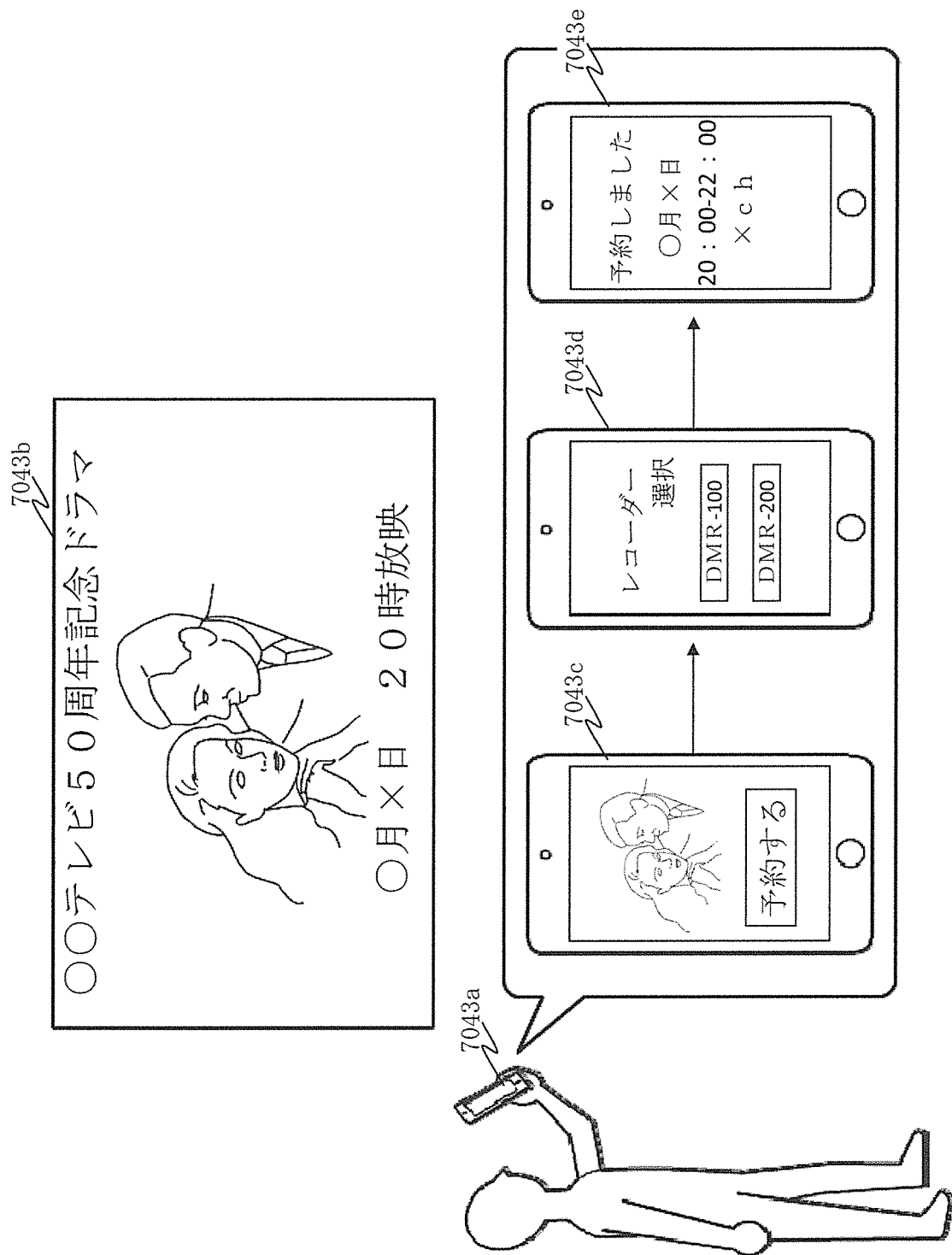
[図201]



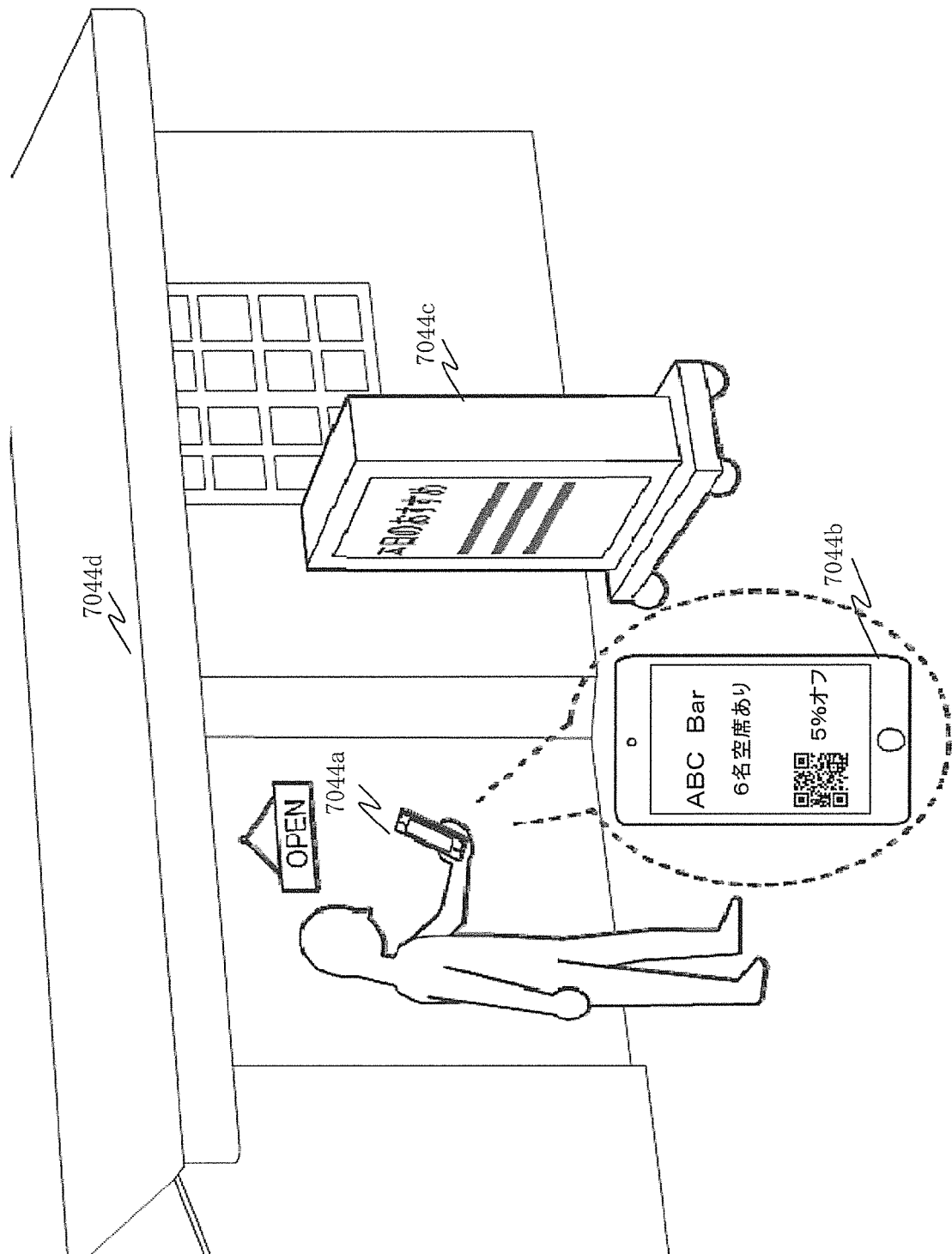
[図202]



[図203]



[図204]



[図205]

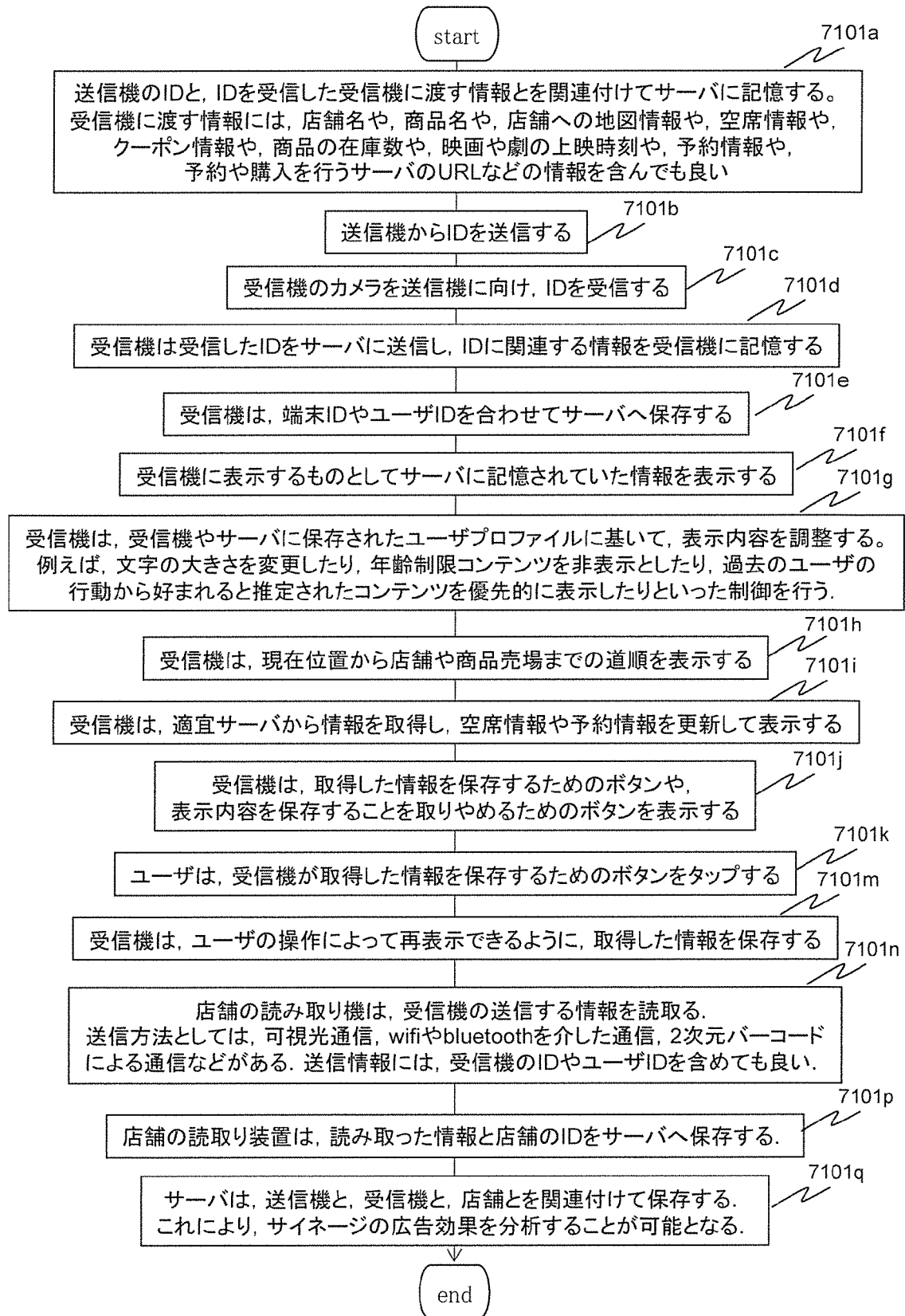
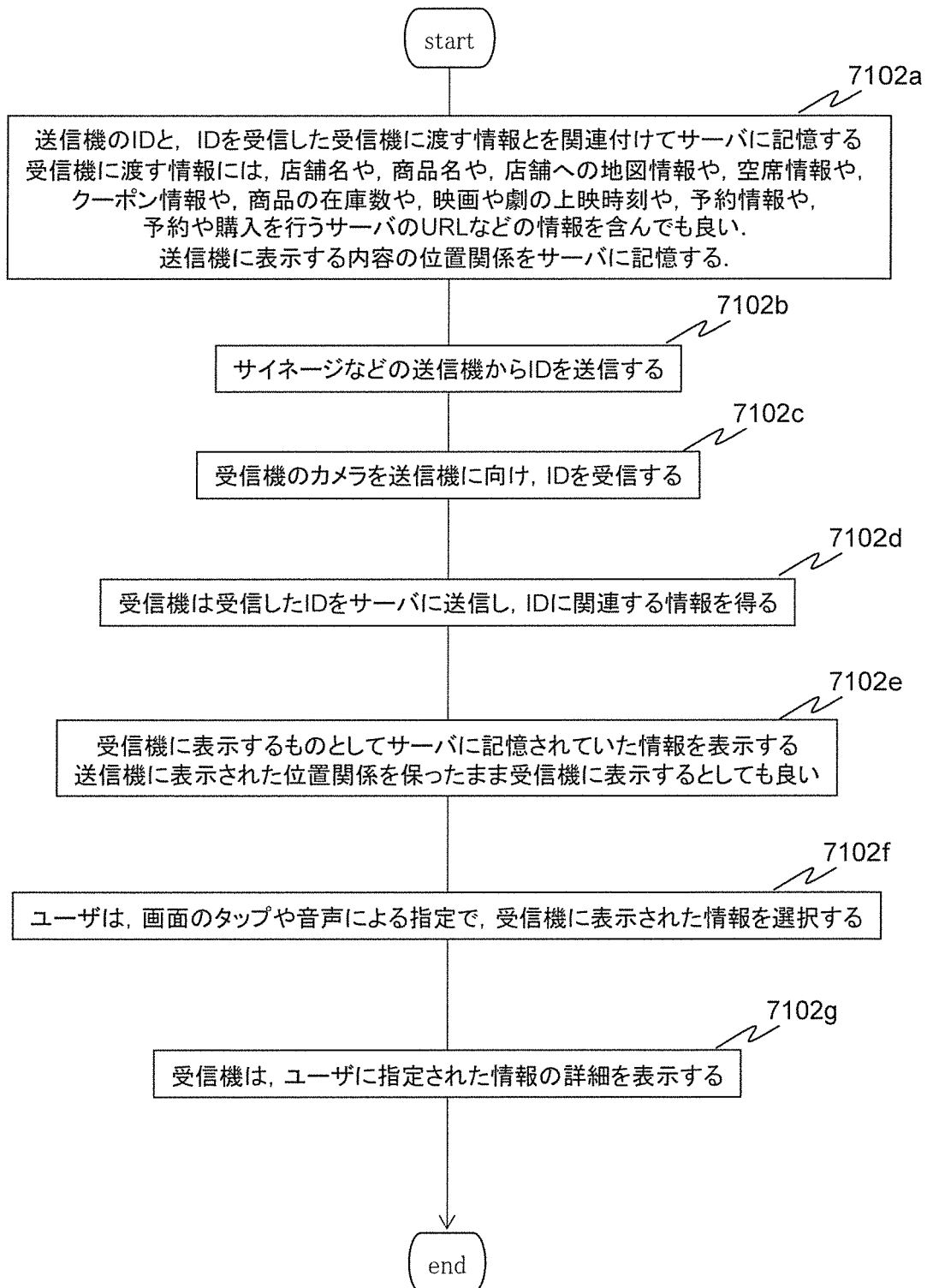
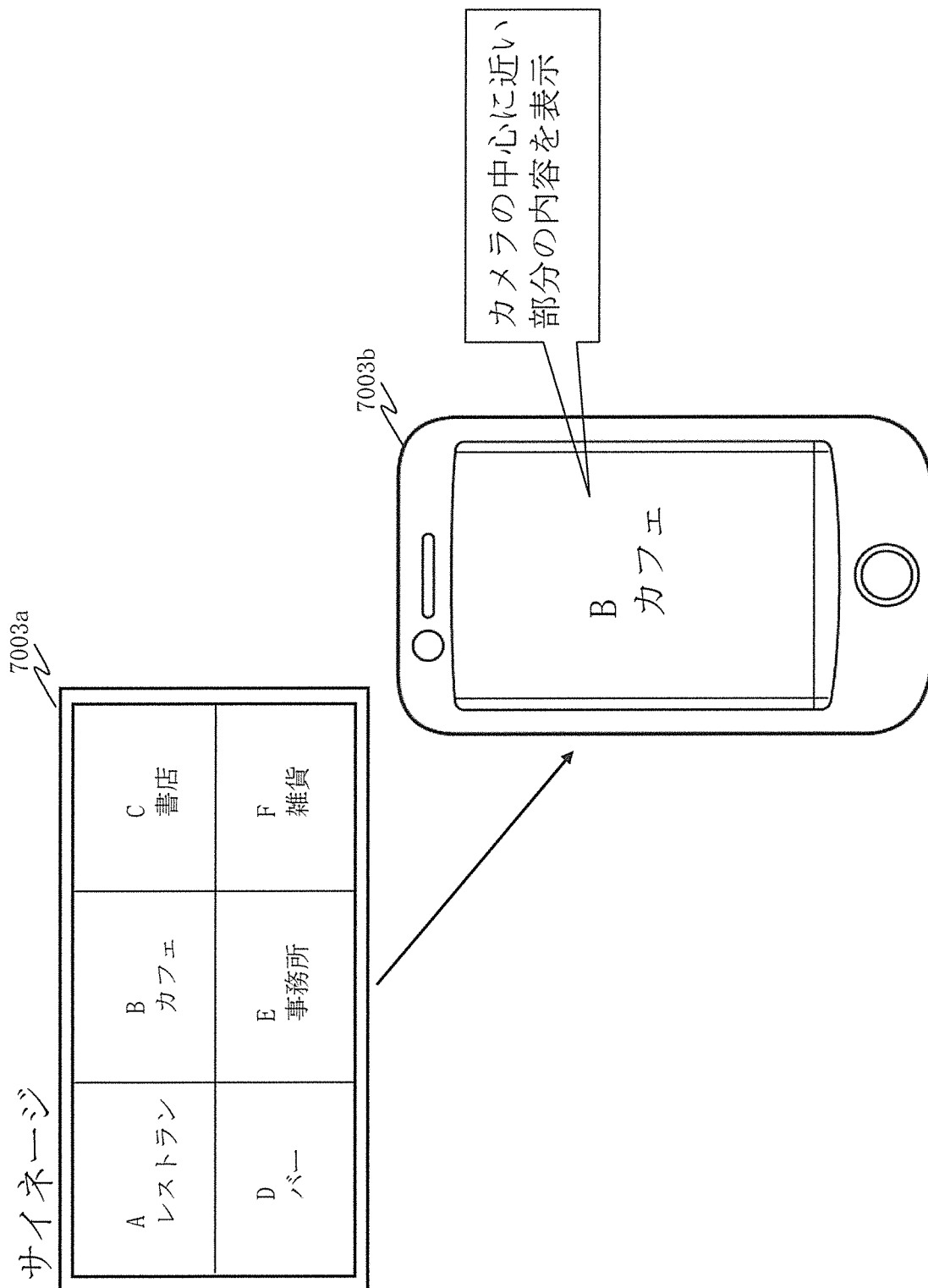


Figure 1 illustrates a process for selecting a location on a mobile device. The process begins with a signage screen (7002a) displaying a 2x2 grid of locations: A レストラン (Restaurant), B カフェ (Cafe), C 書店 (Bookstore), and D バー (Bar). An arrow labeled '受信' (Reception) points to a mobile phone (7002b) displaying the same grid. A finger is shown tapping the phone's screen. An arrow points to another mobile phone (7002b) displaying only 'B カフェ' (Cafe).

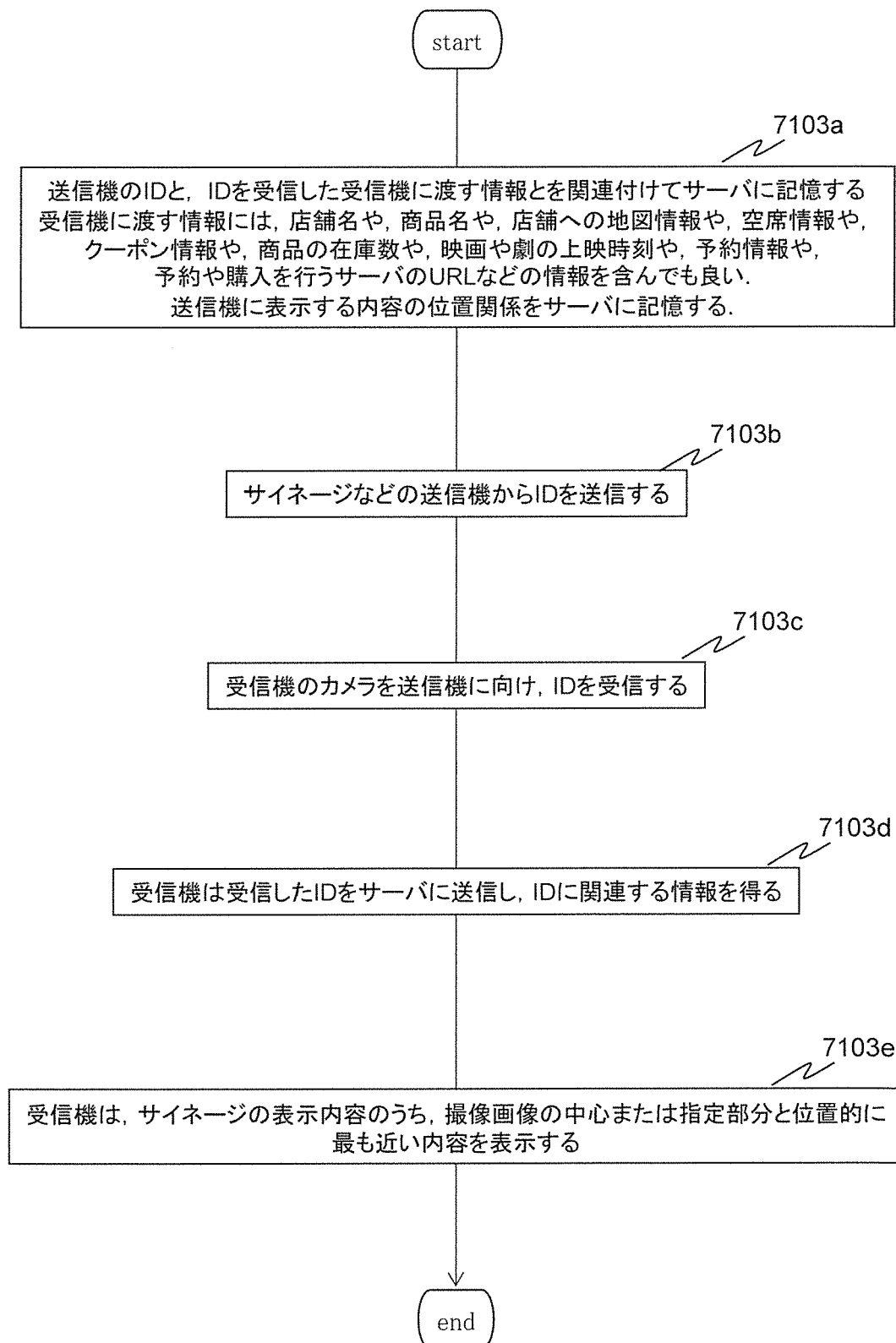
[図207]



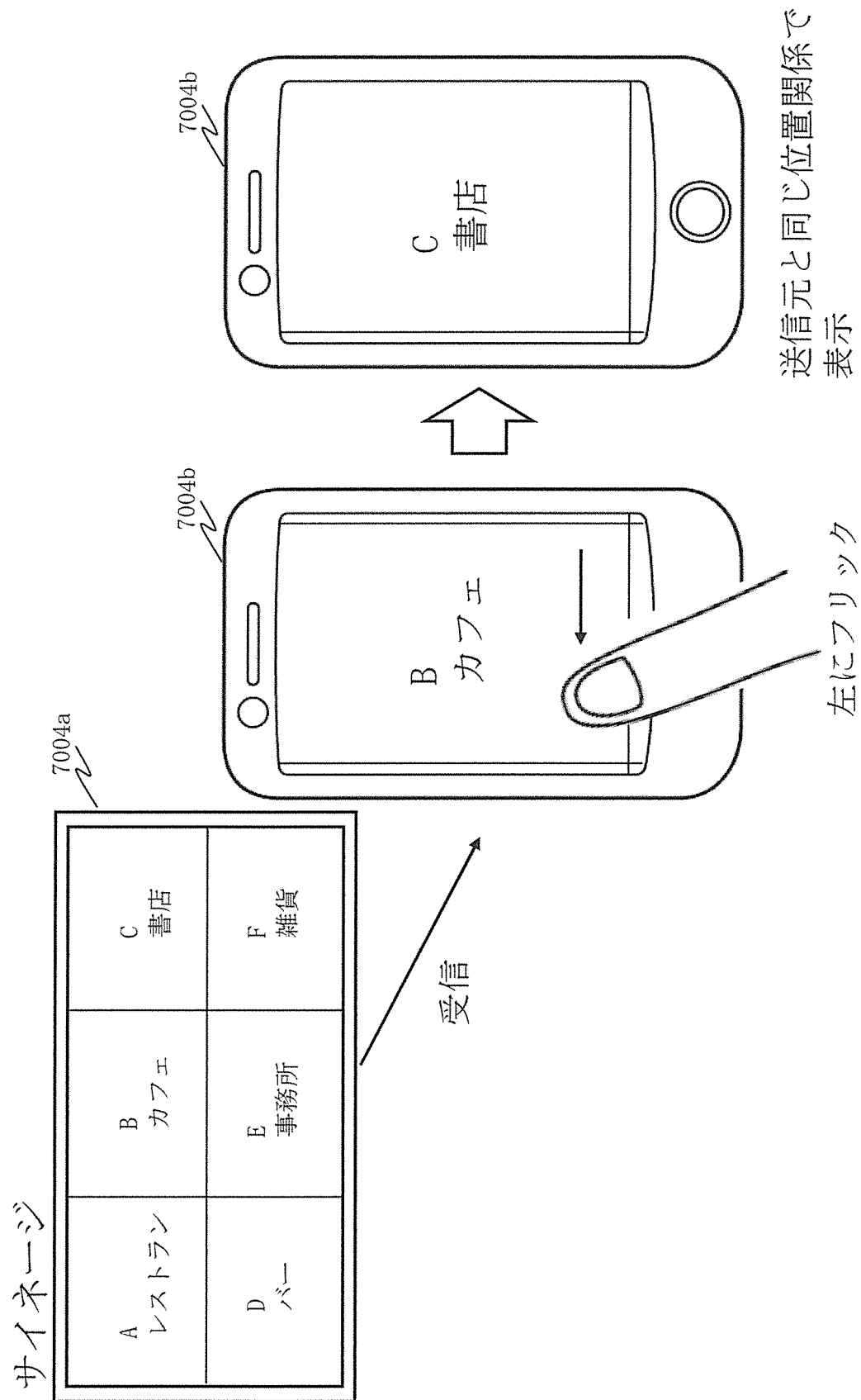
[図208]



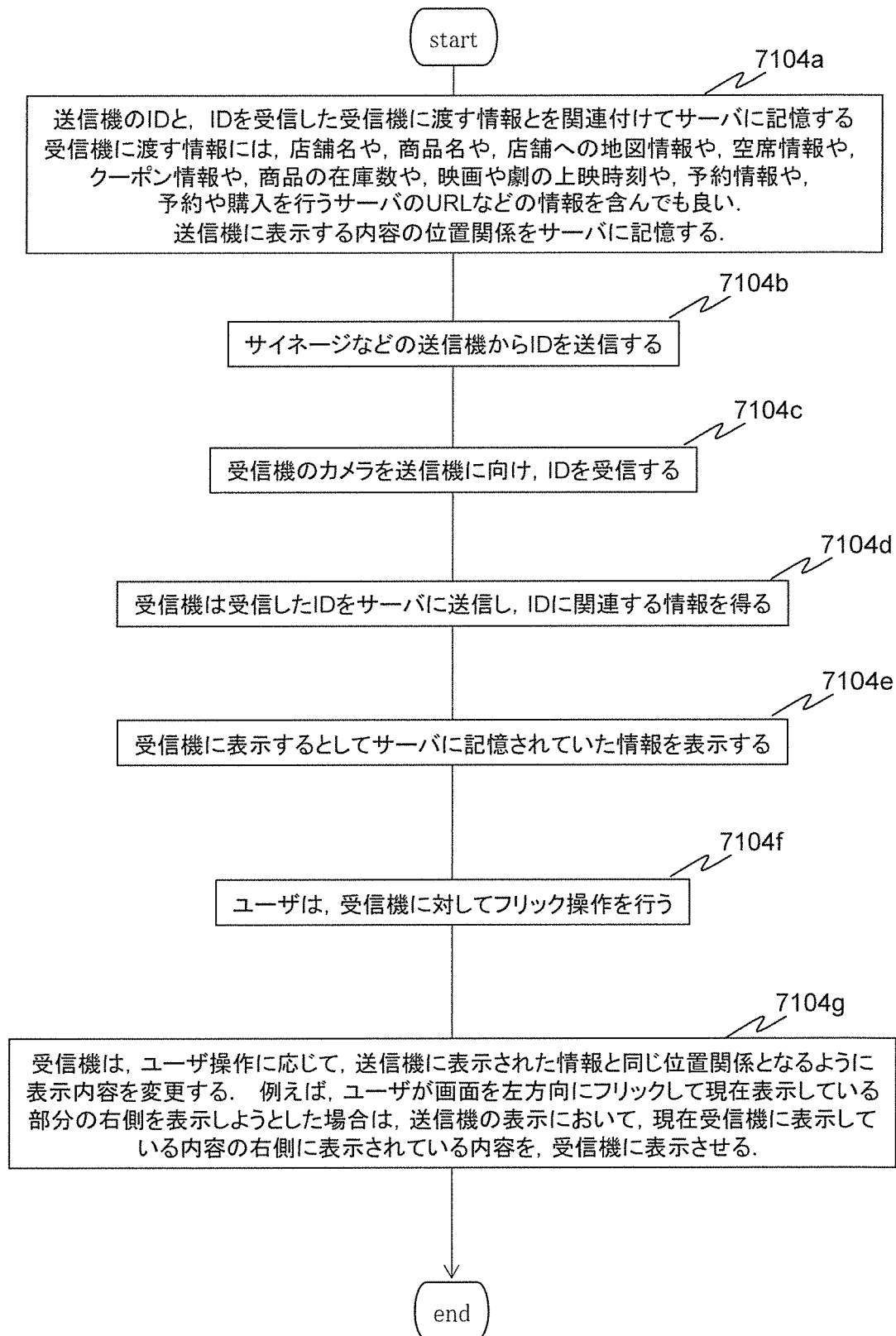
[図209]



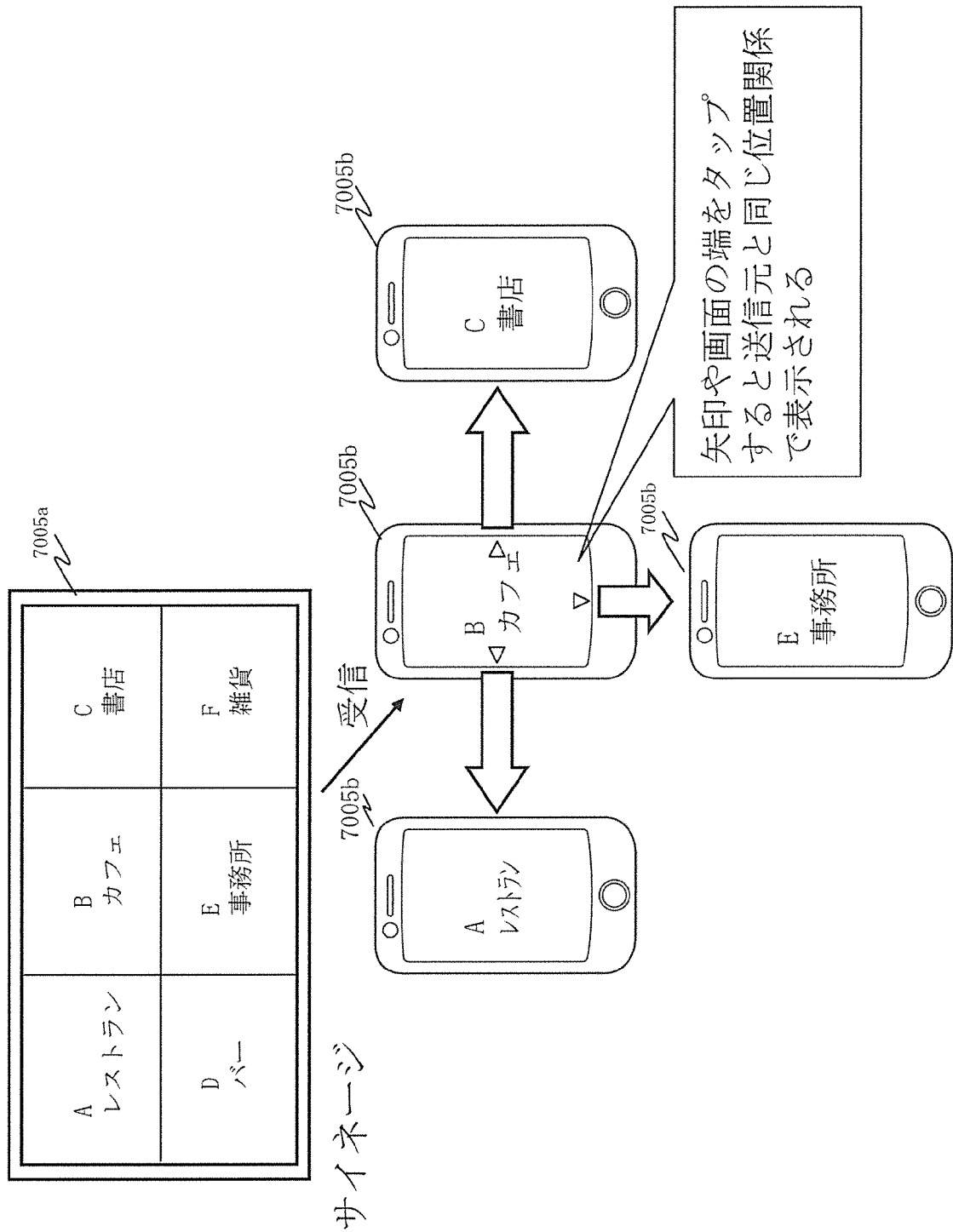
[図210]



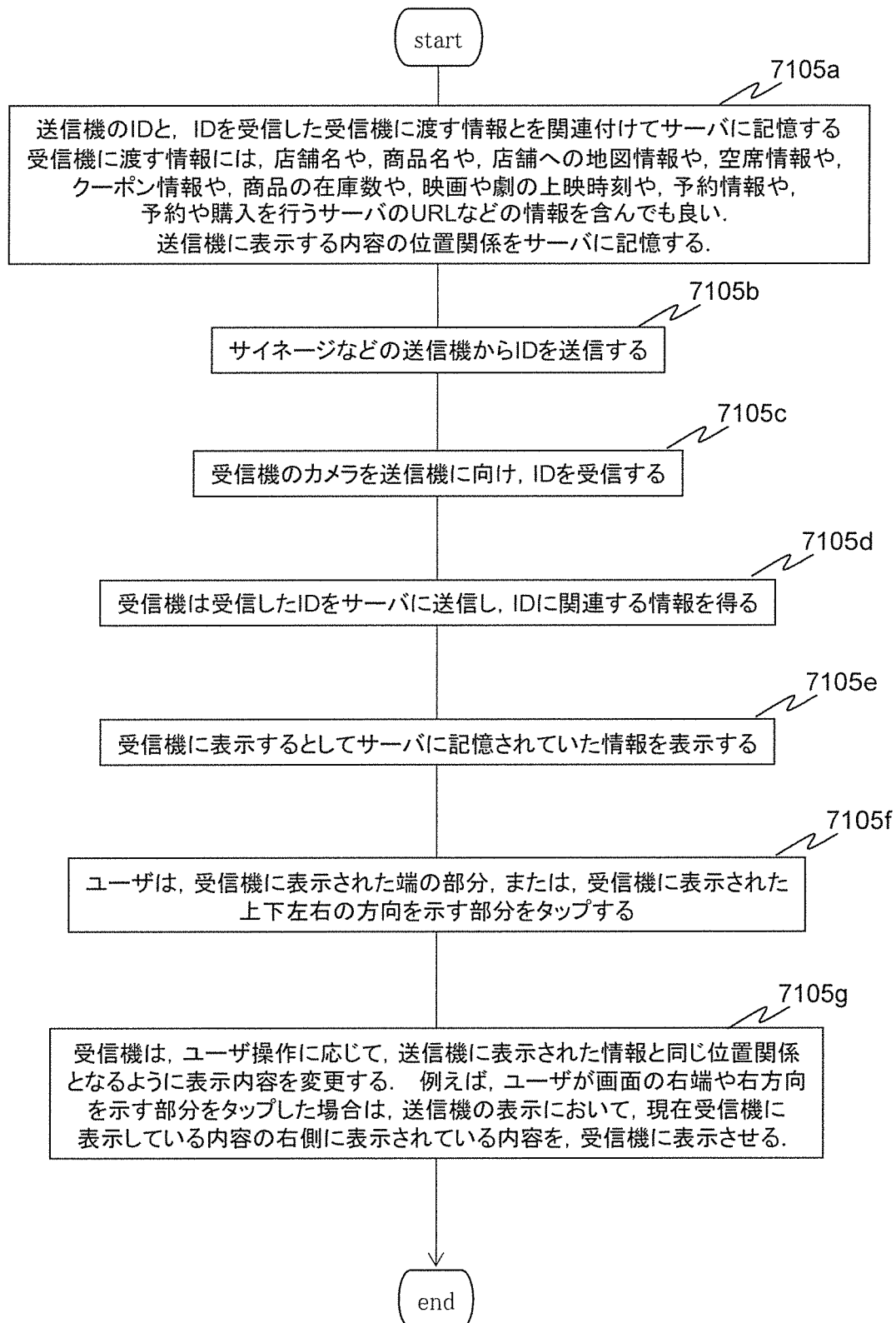
[図211]



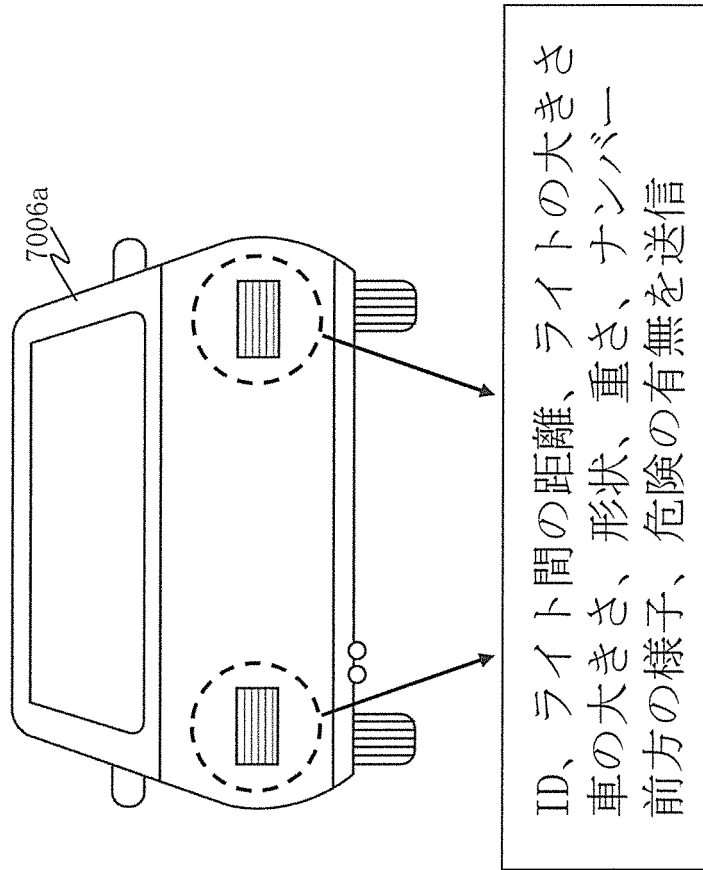
[図212]



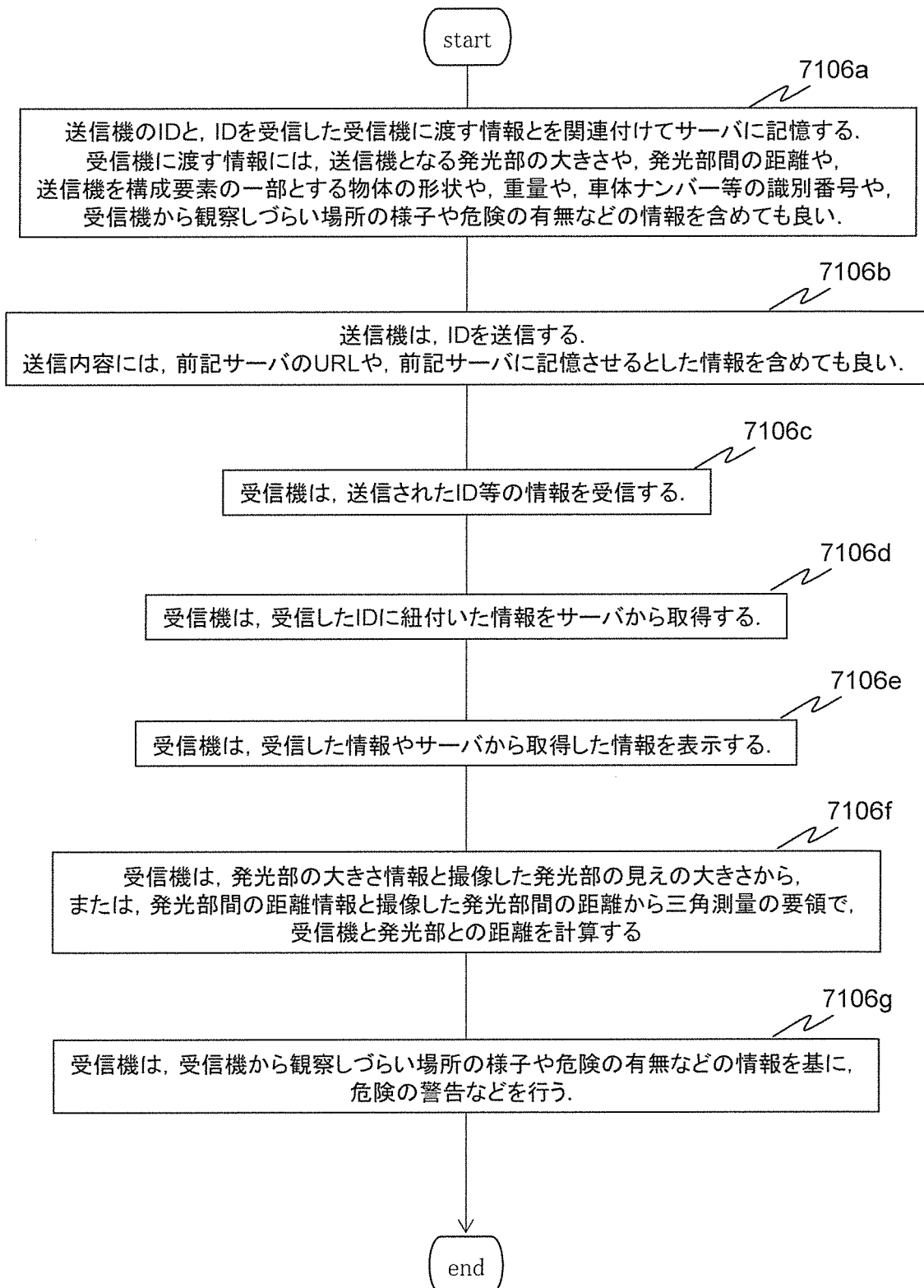
[図213]



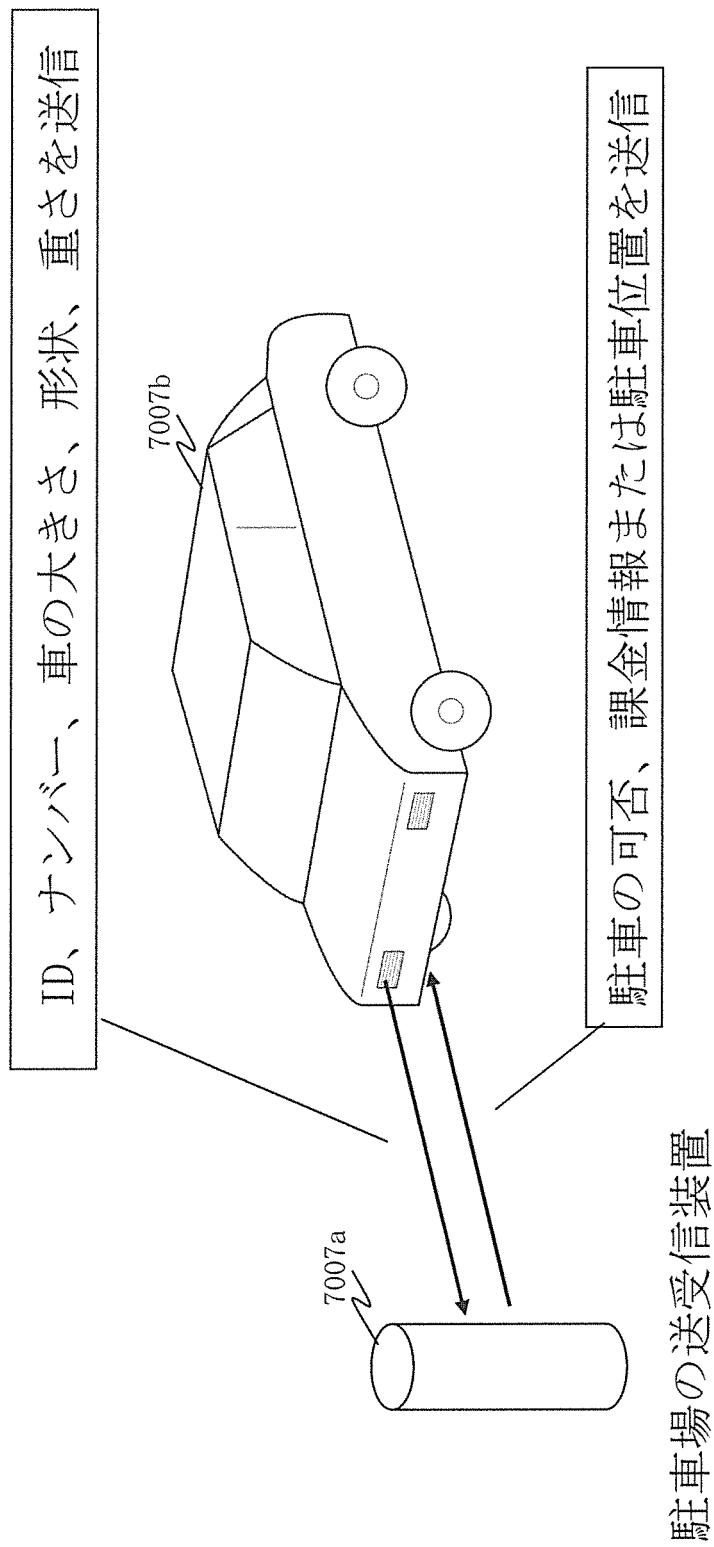
[図214]



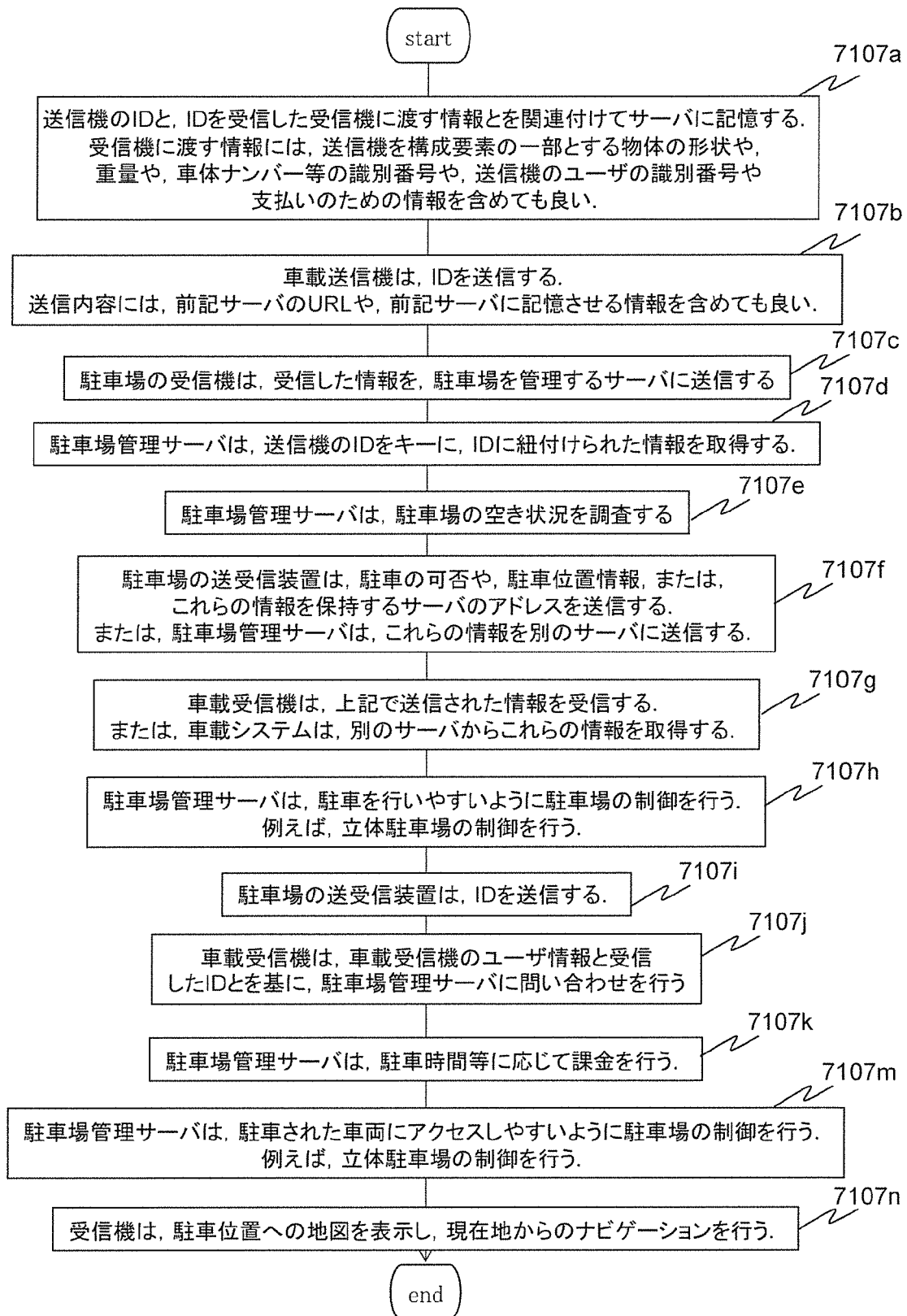
[図215]



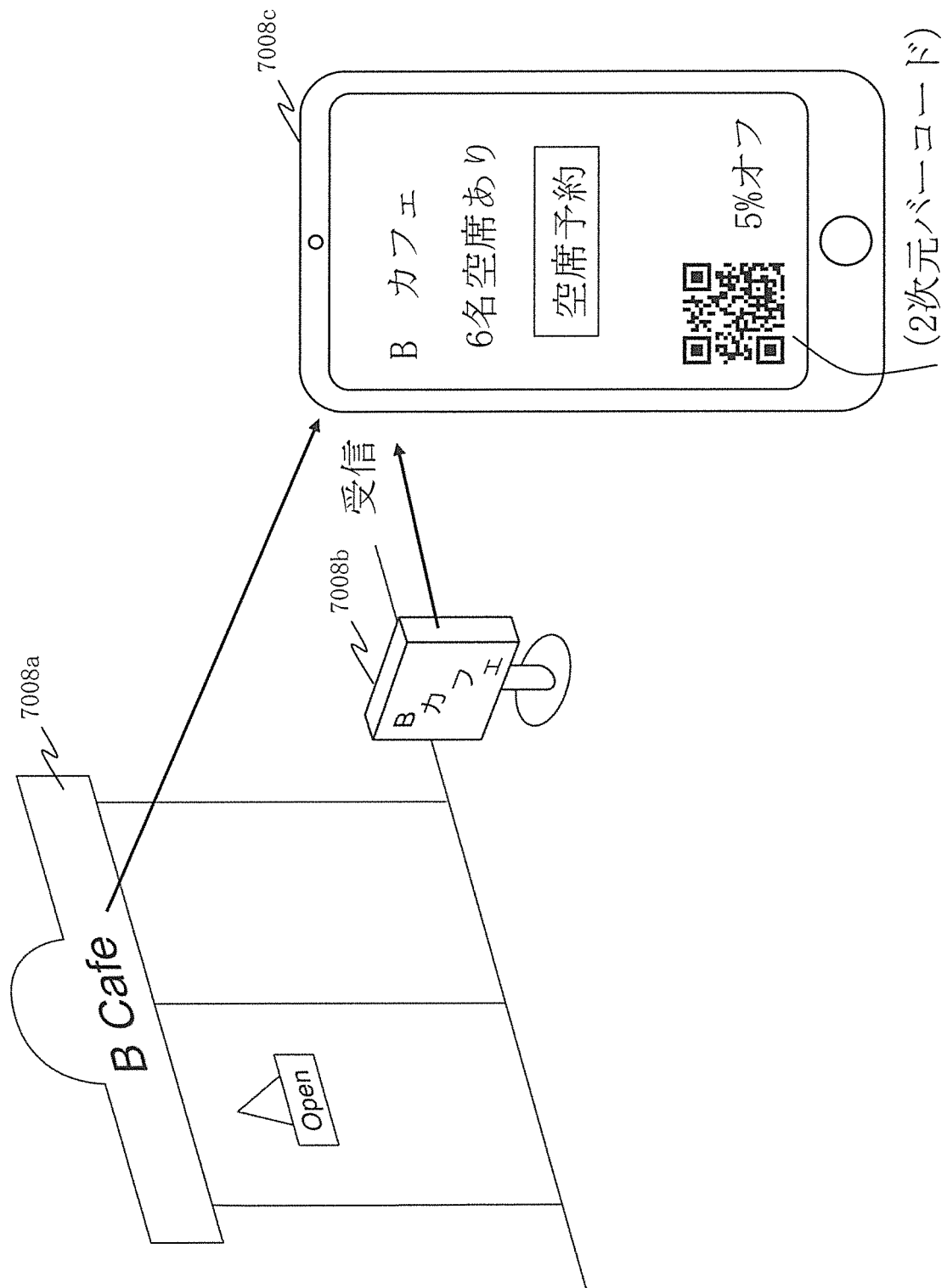
[図216]



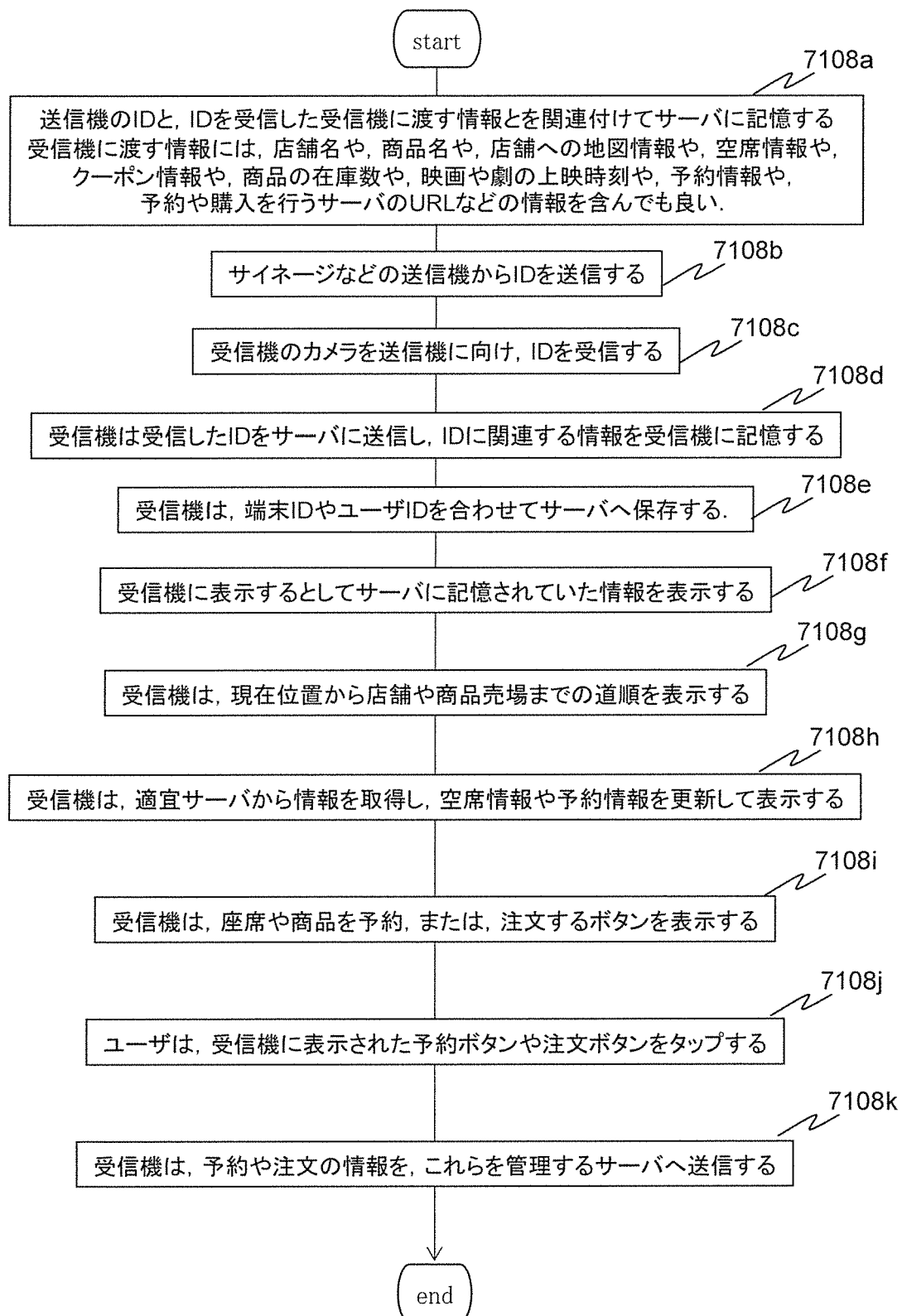
[図217]



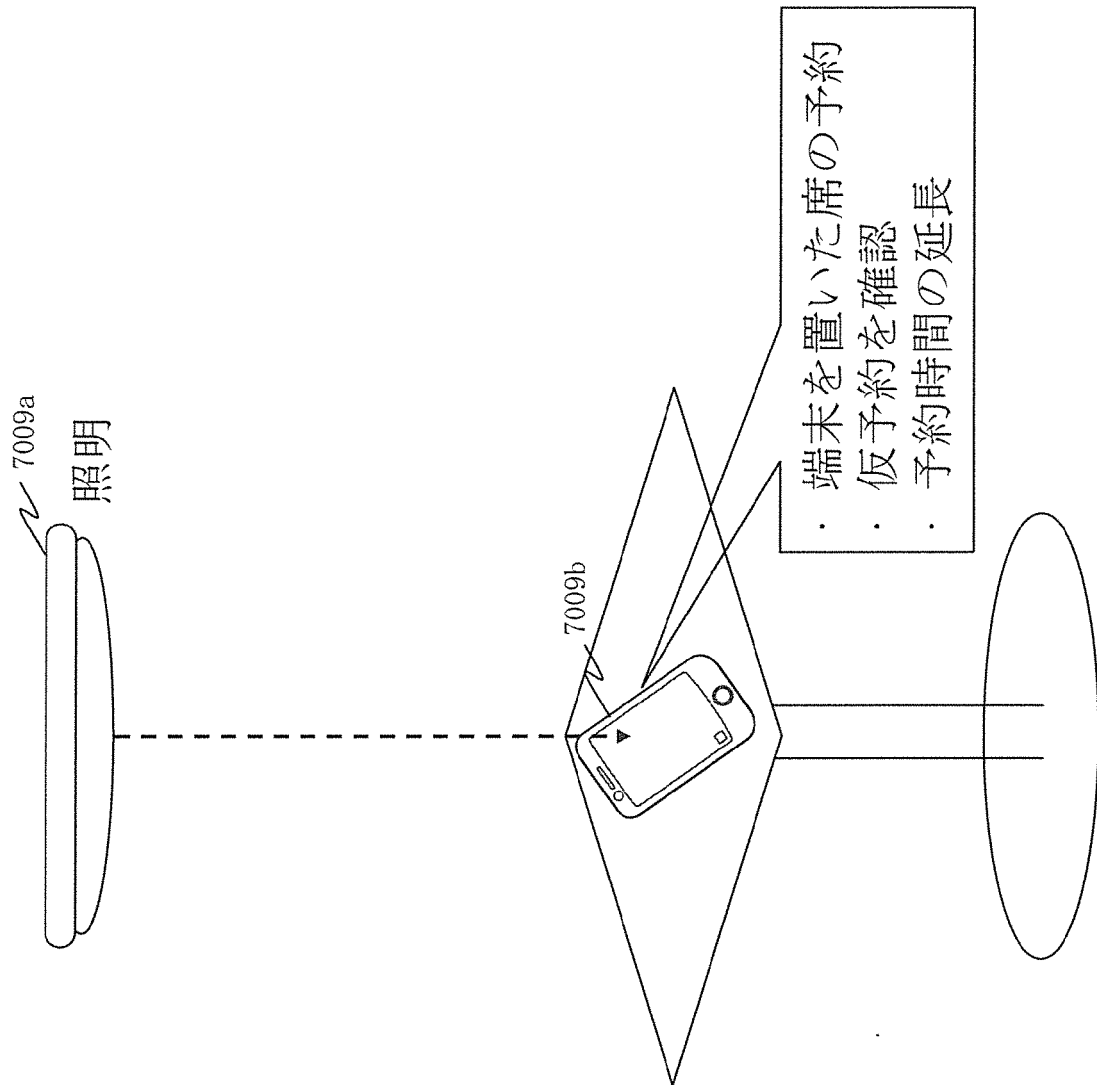
[図218]



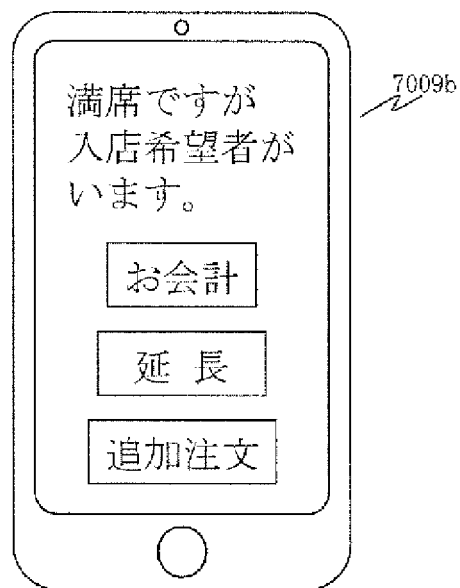
[図219]



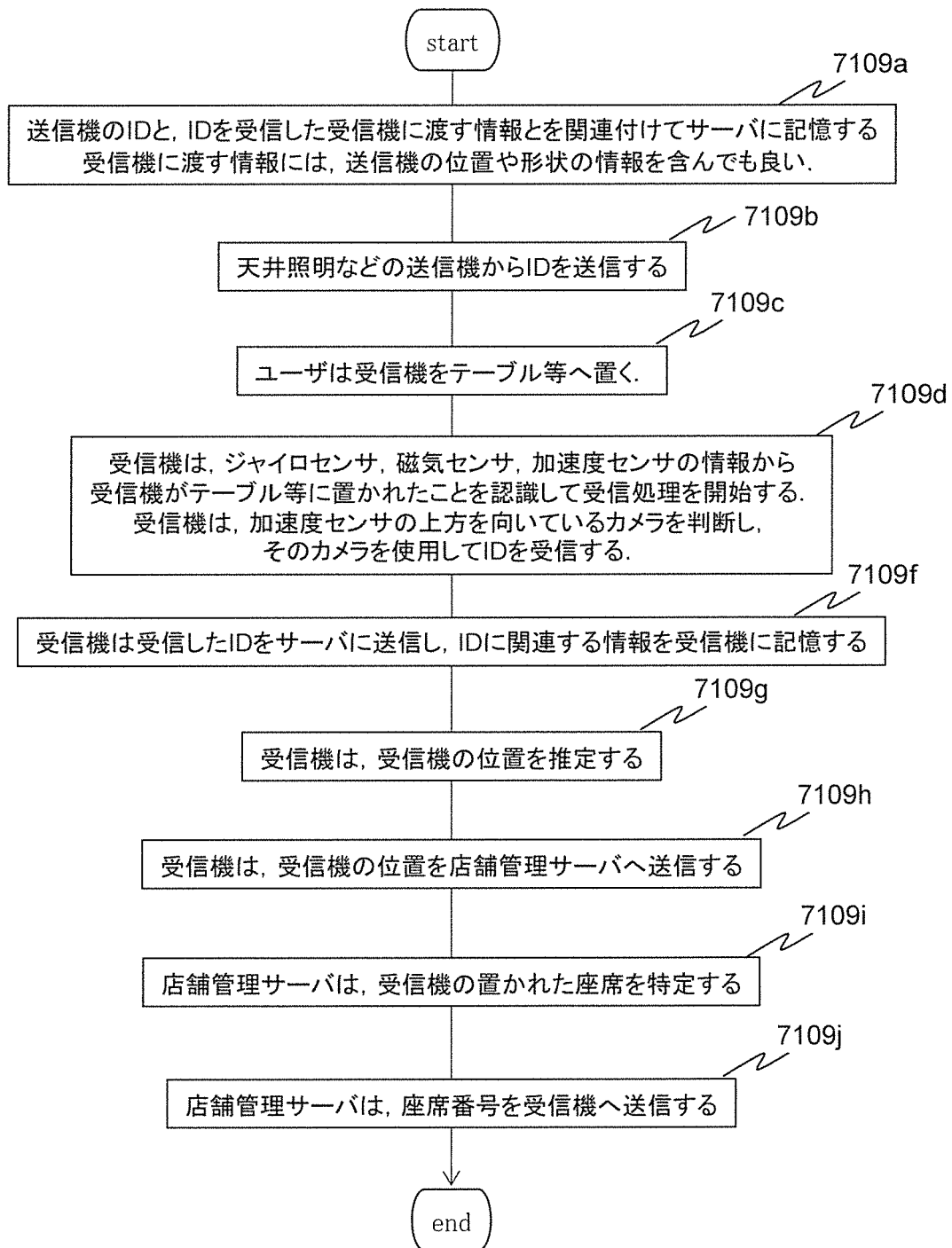
[図220]



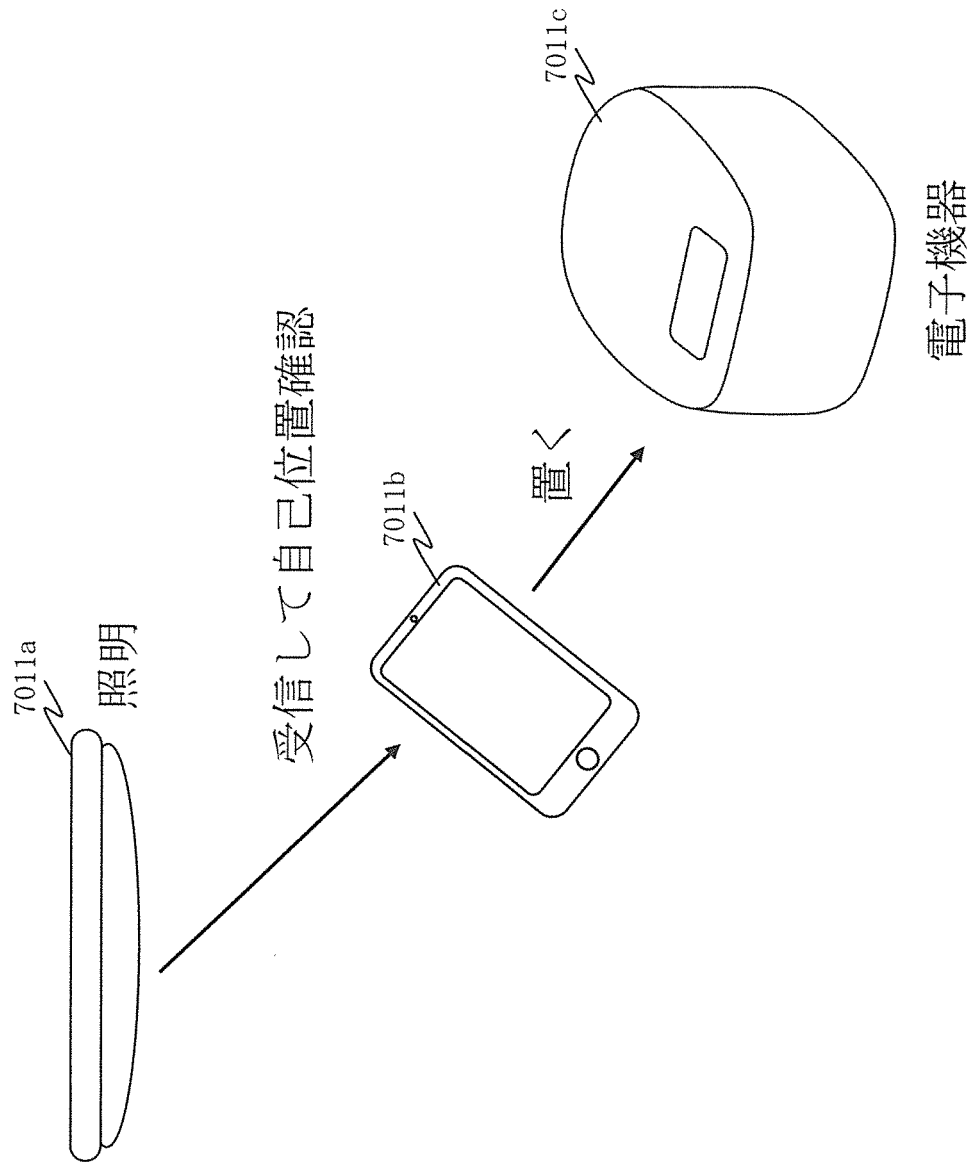
[図221]



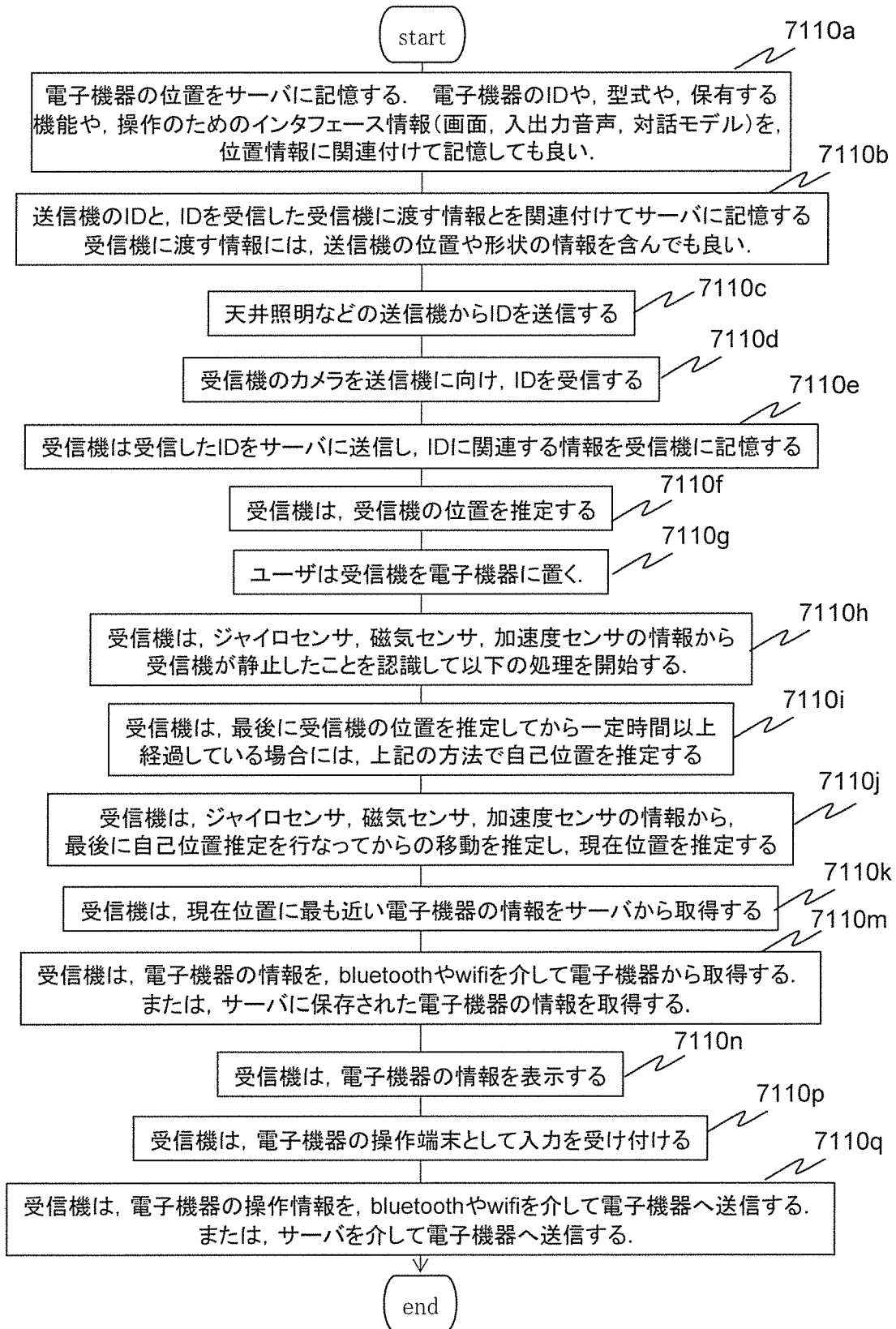
[図222]



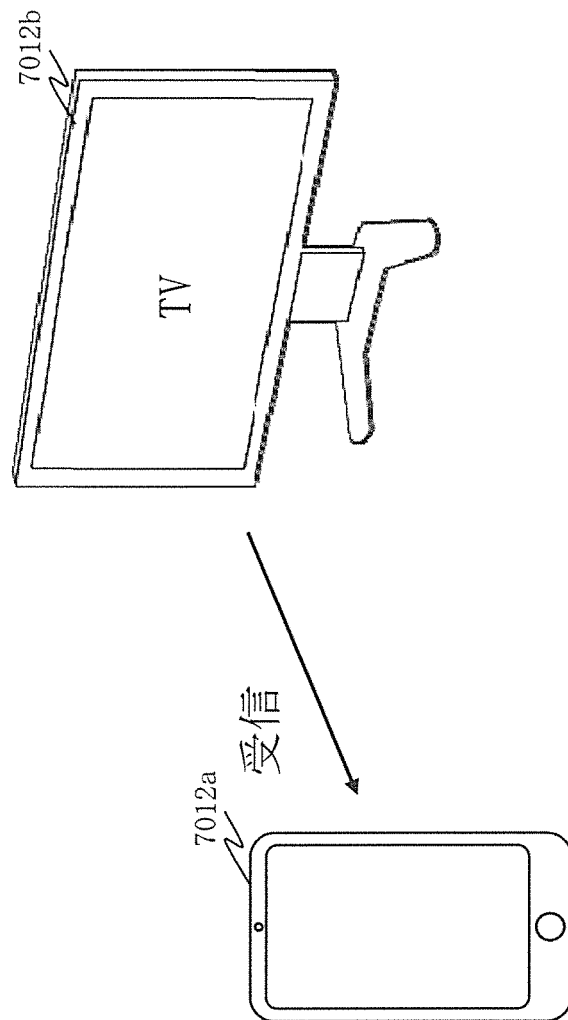
[図223]



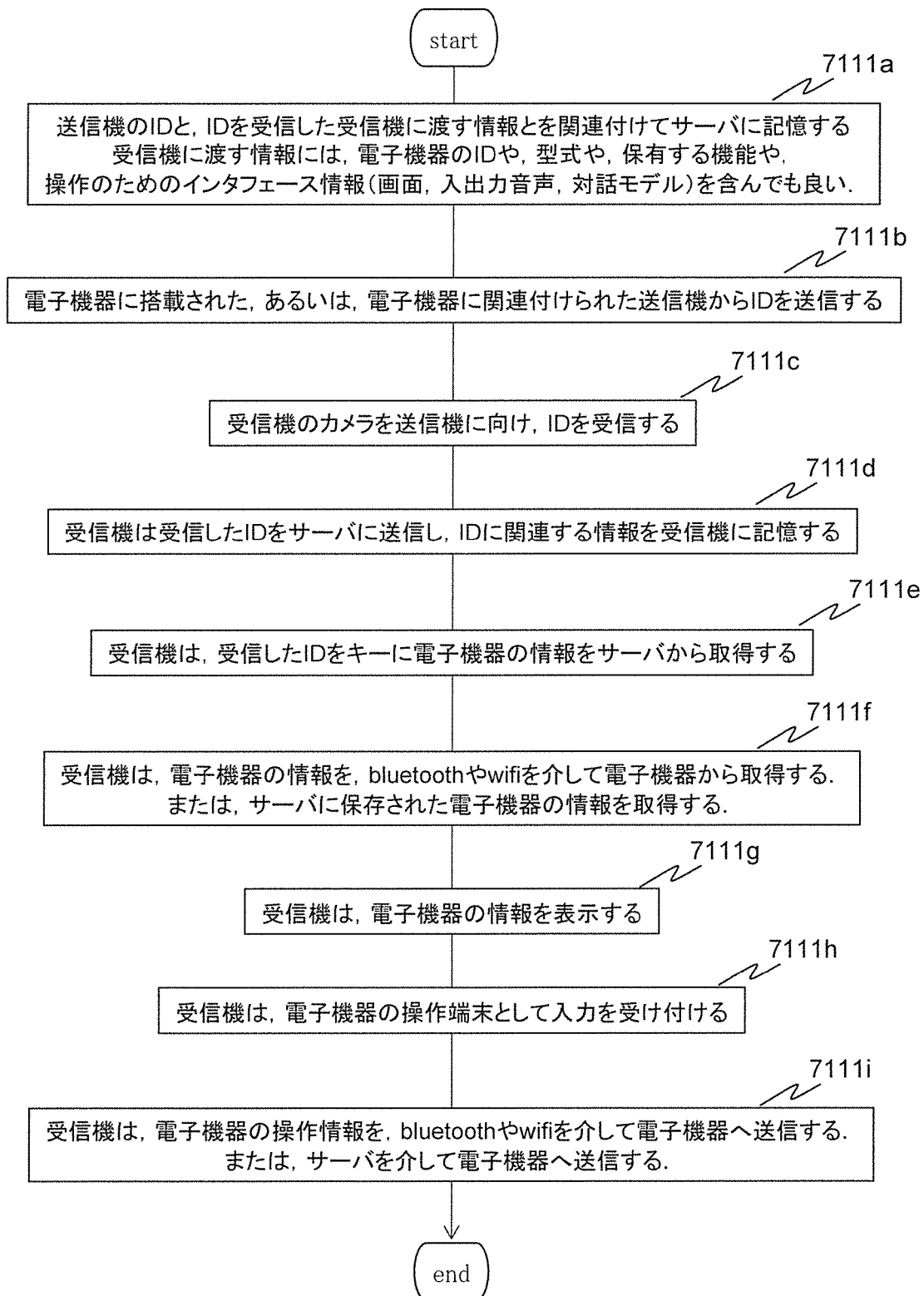
[図224]



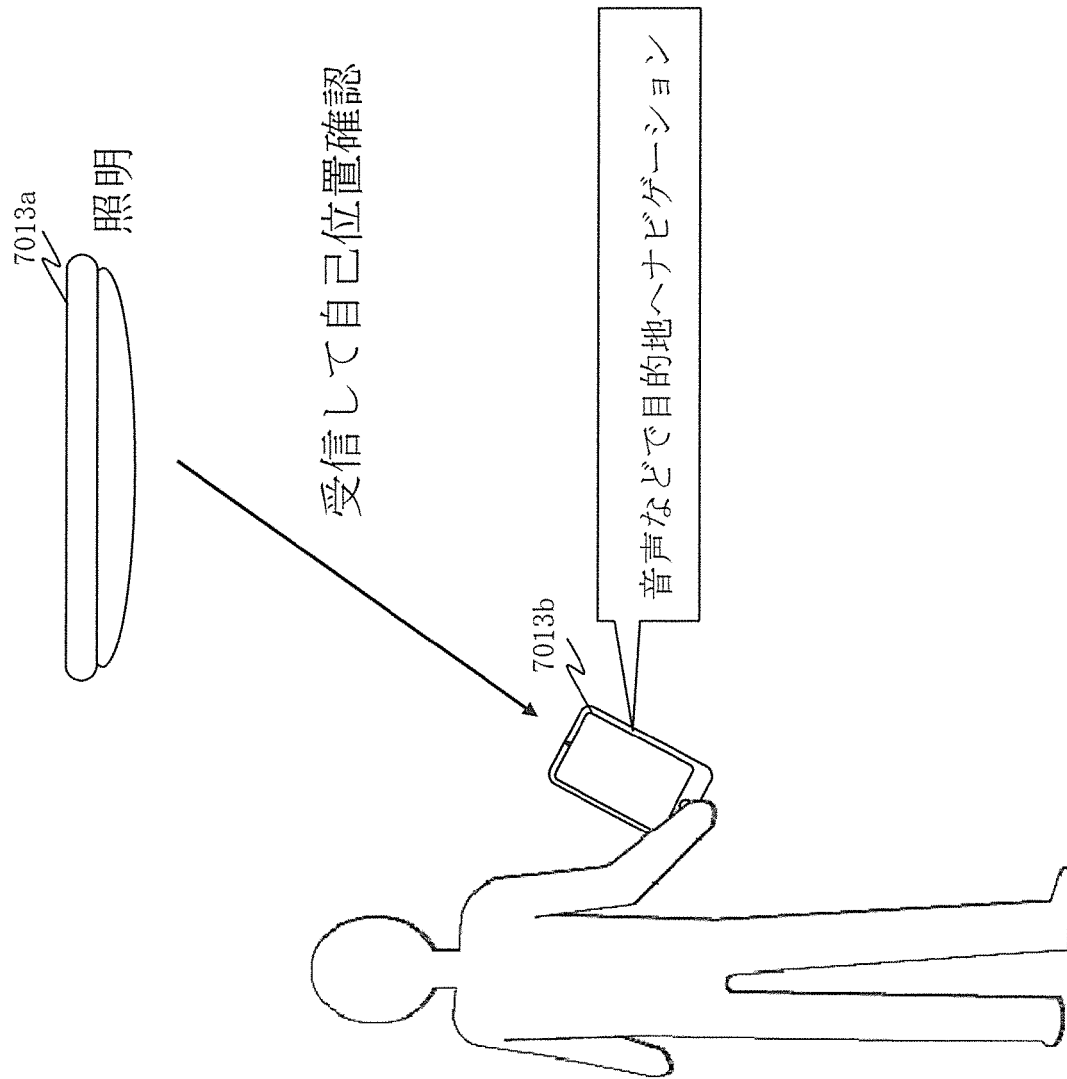
[図225]



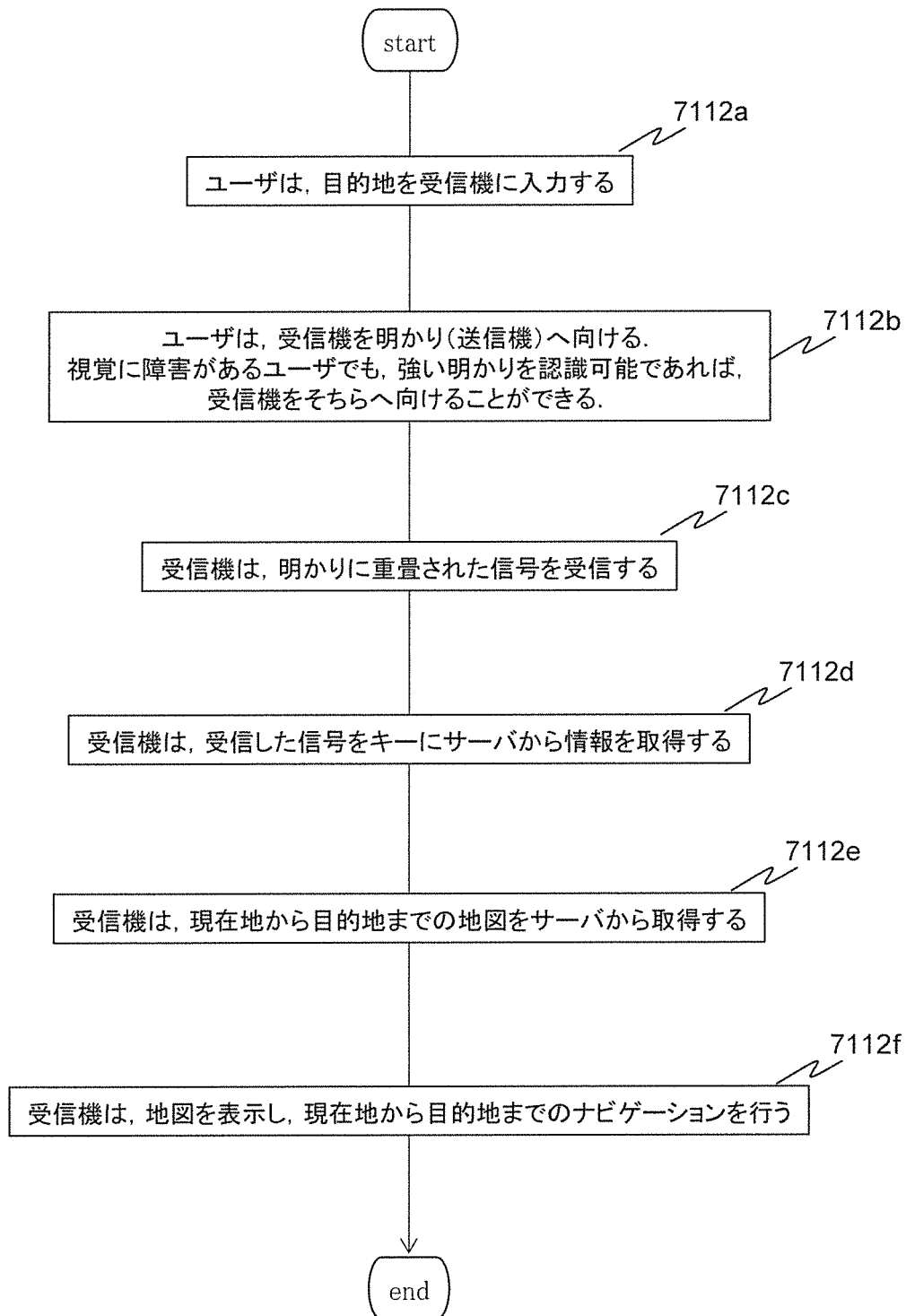
[図226]



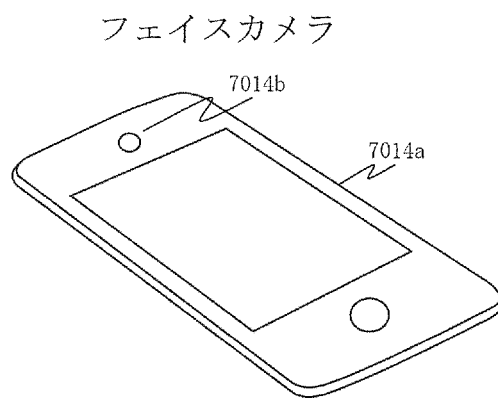
[図227]



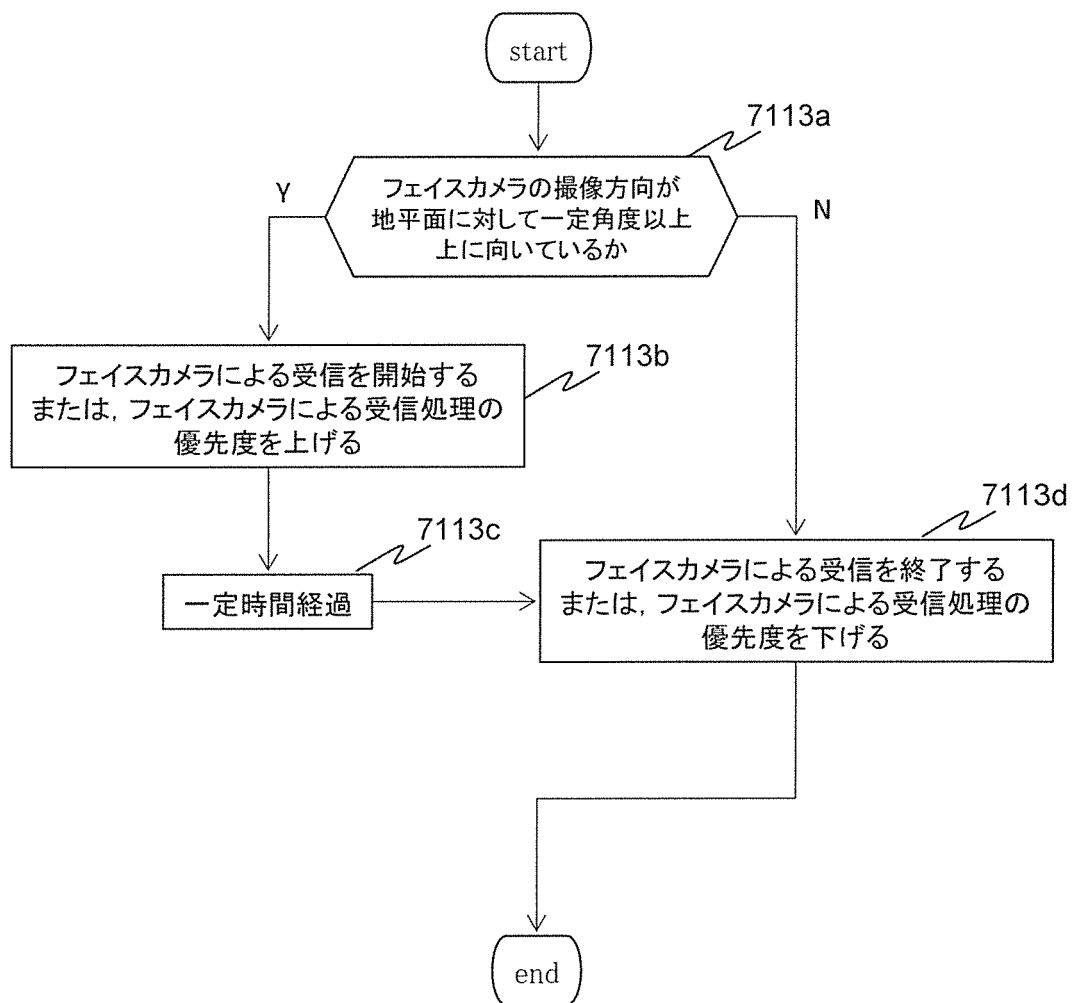
[図228]



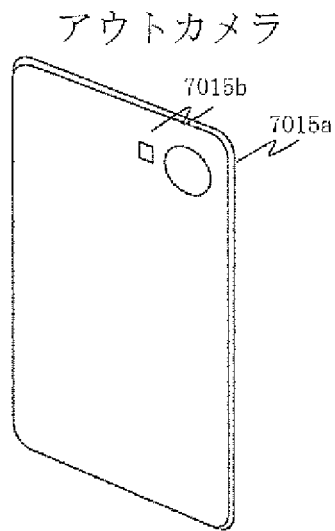
[図229]



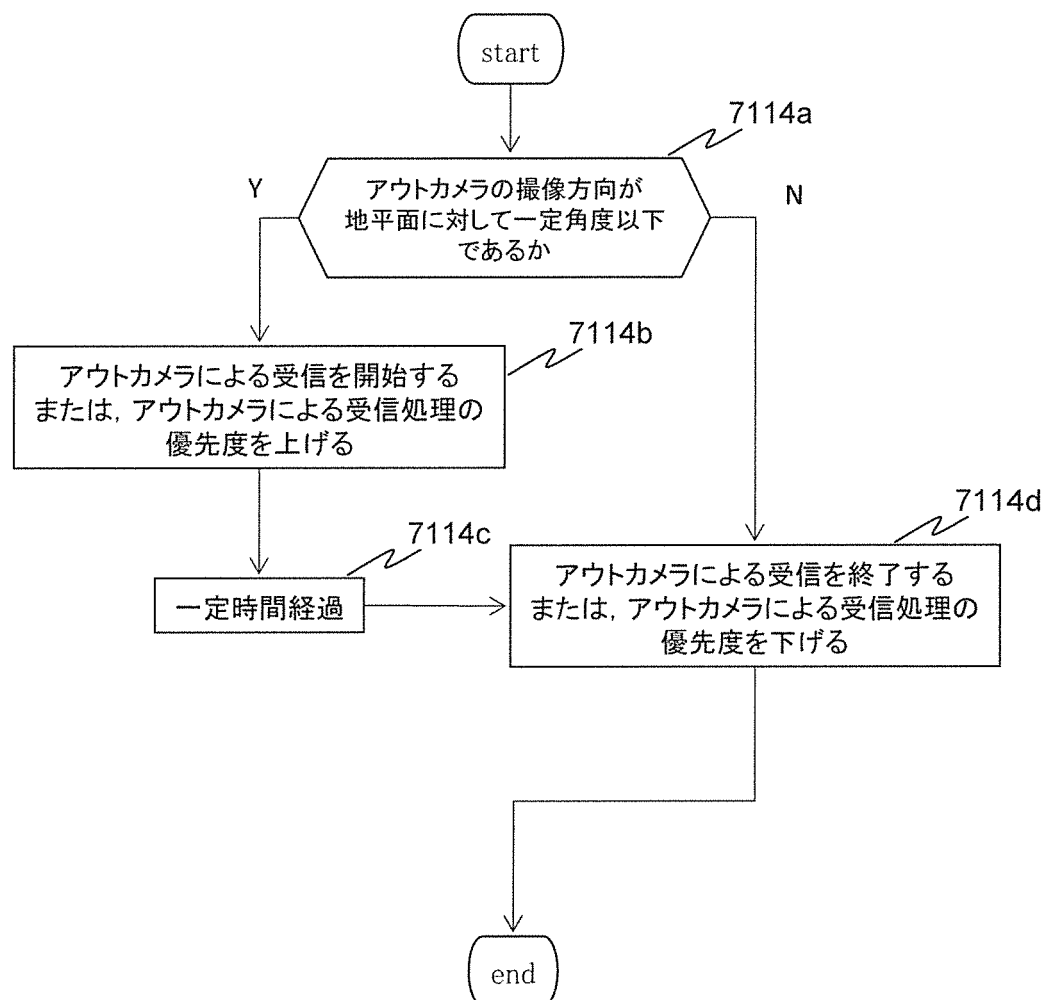
[図230]



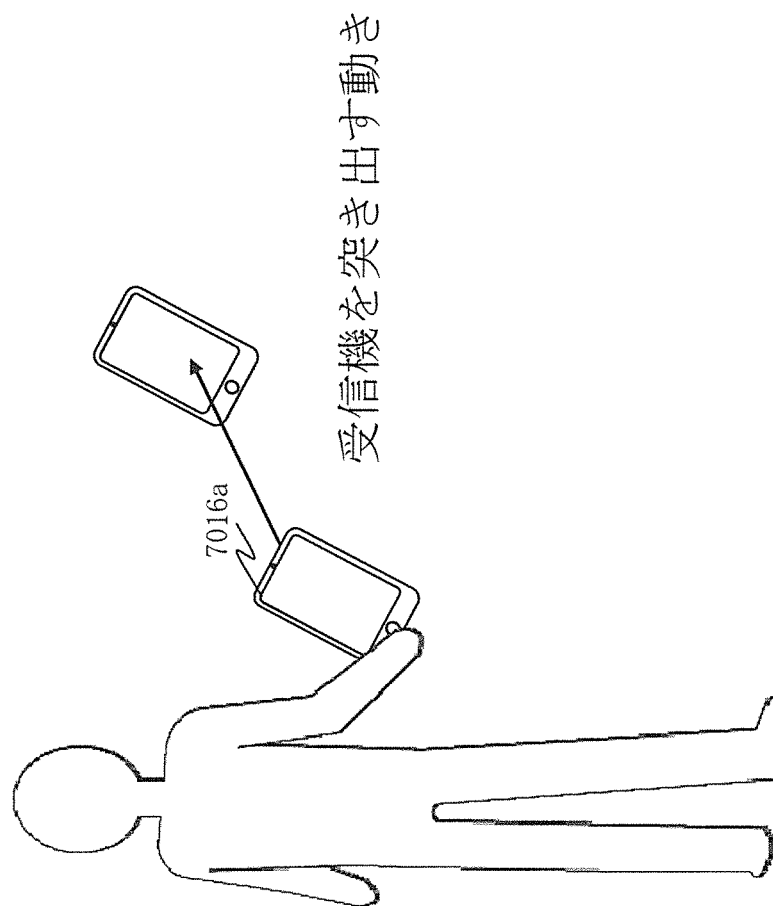
[図231]



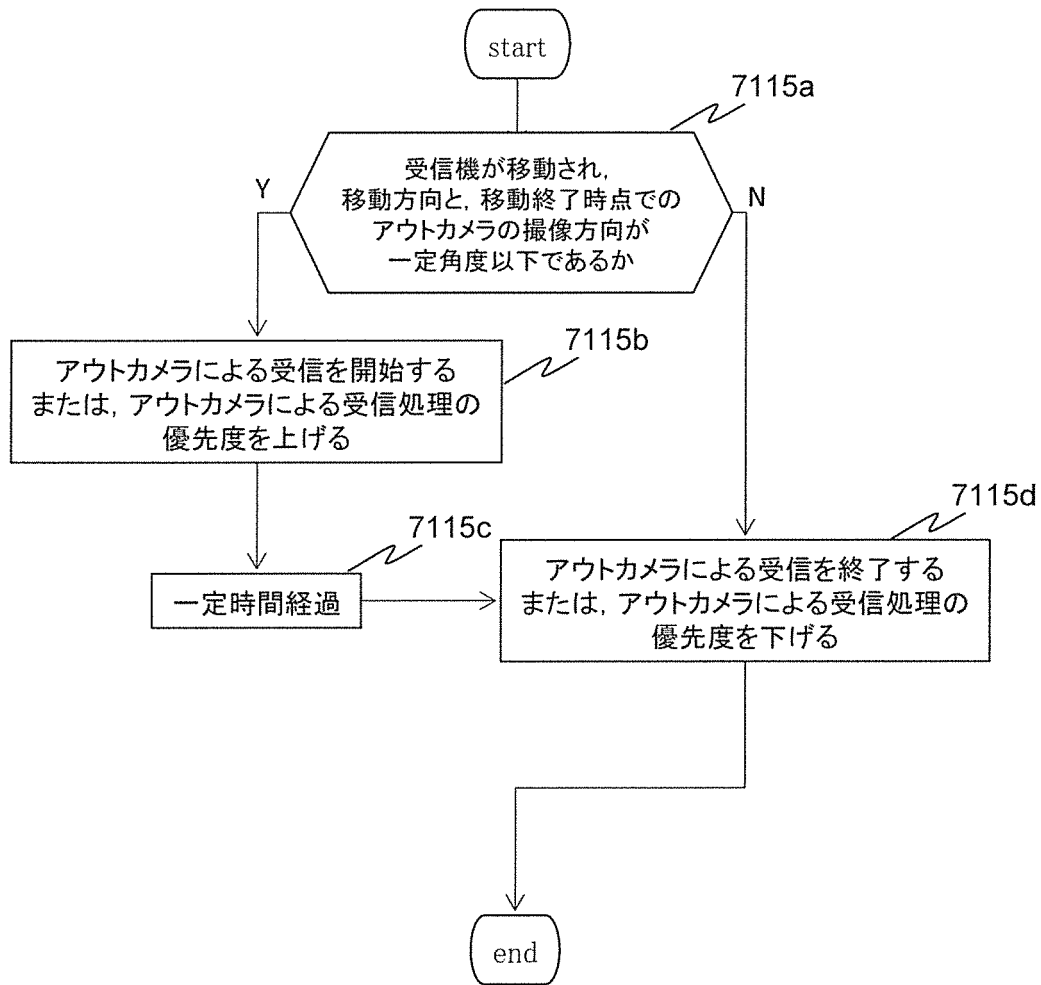
[図232]



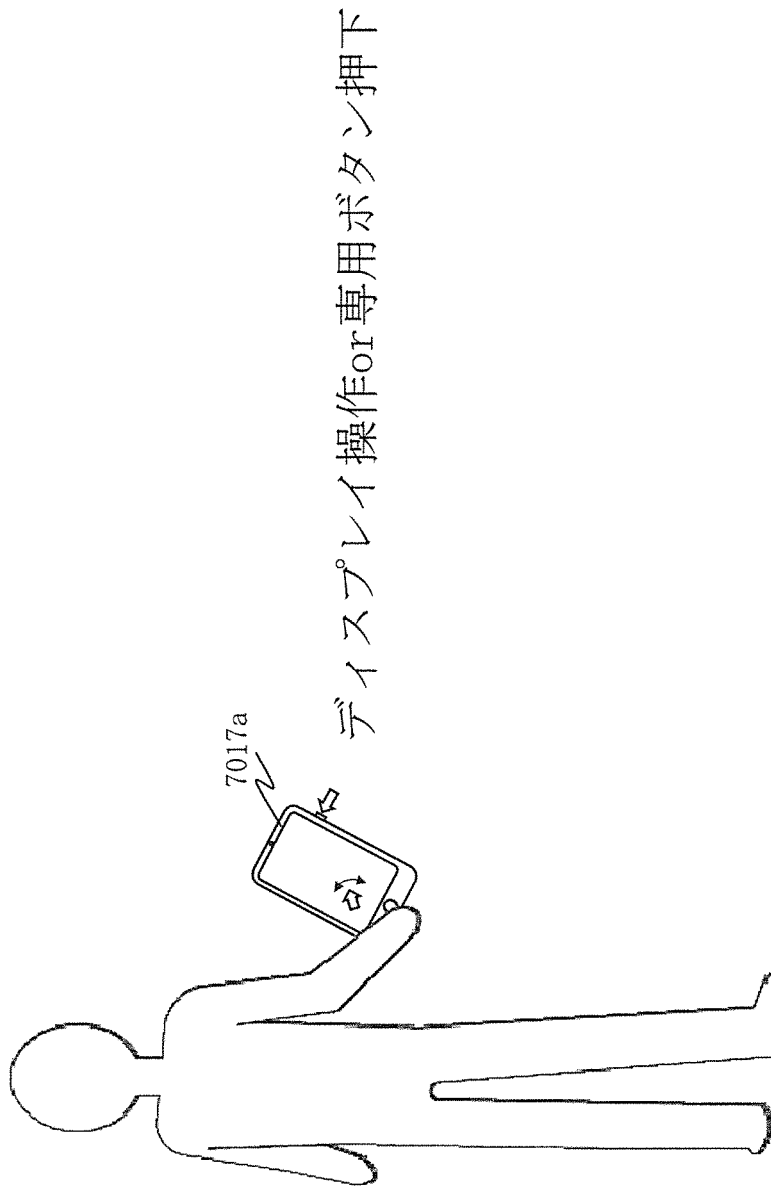
[図233]



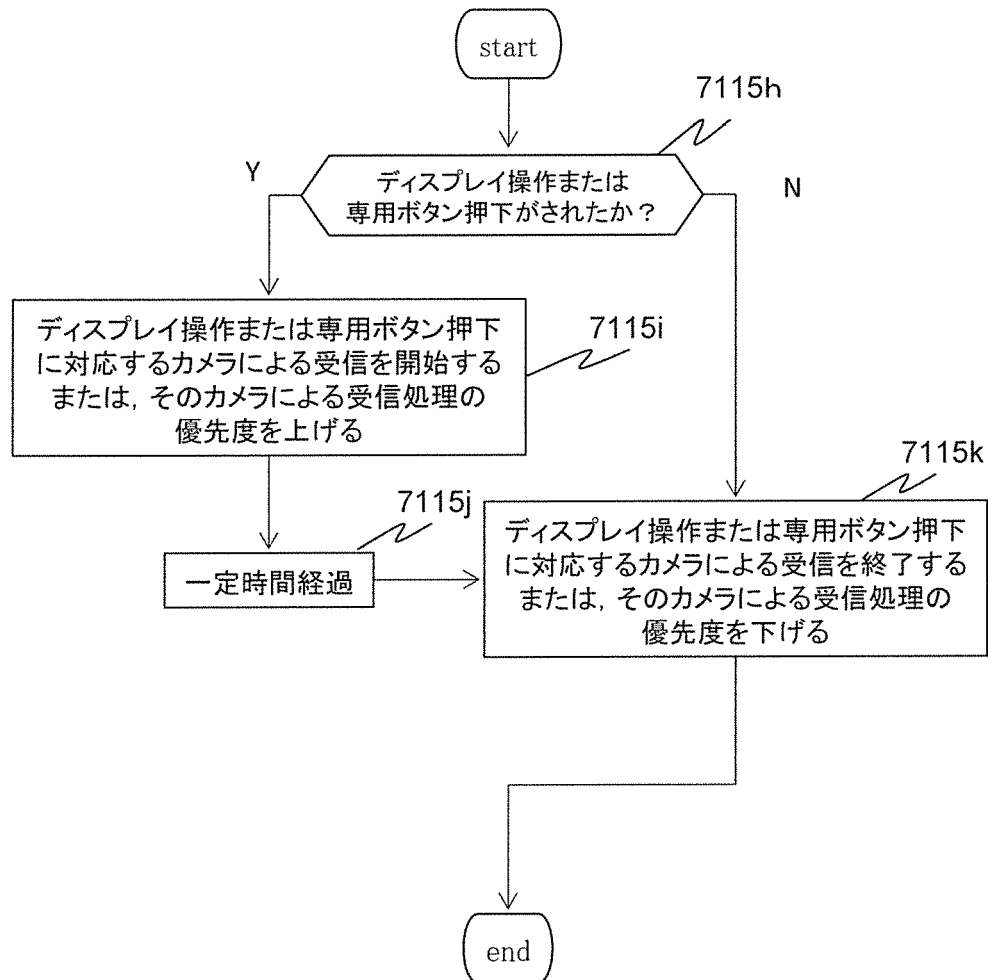
[図234]



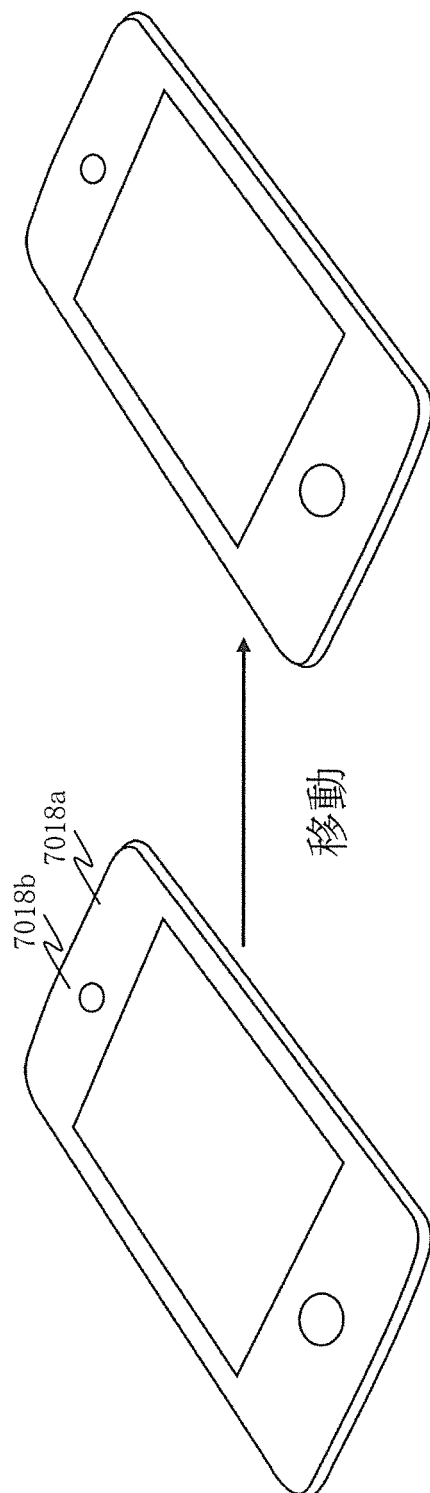
[図235]



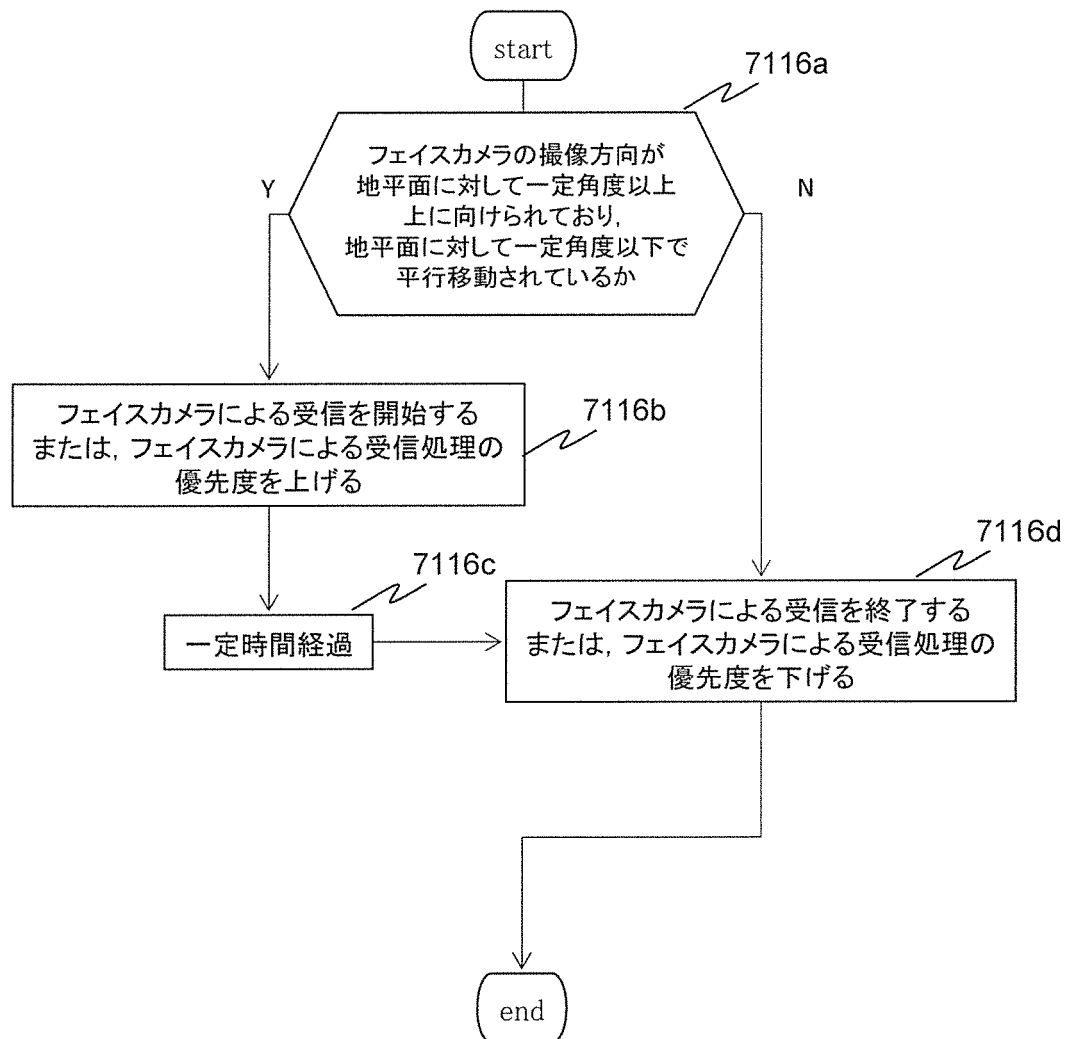
[図236]



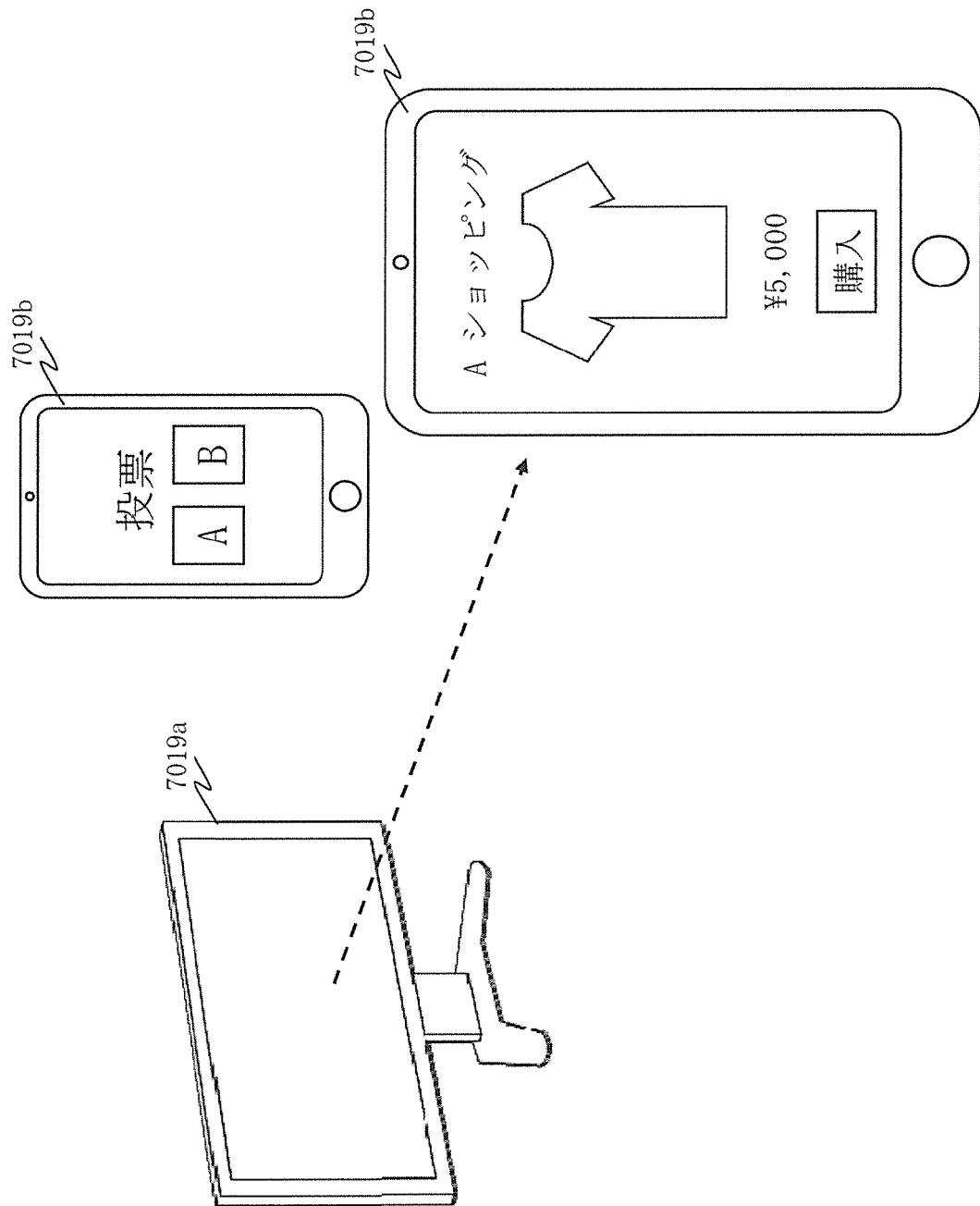
[図237]



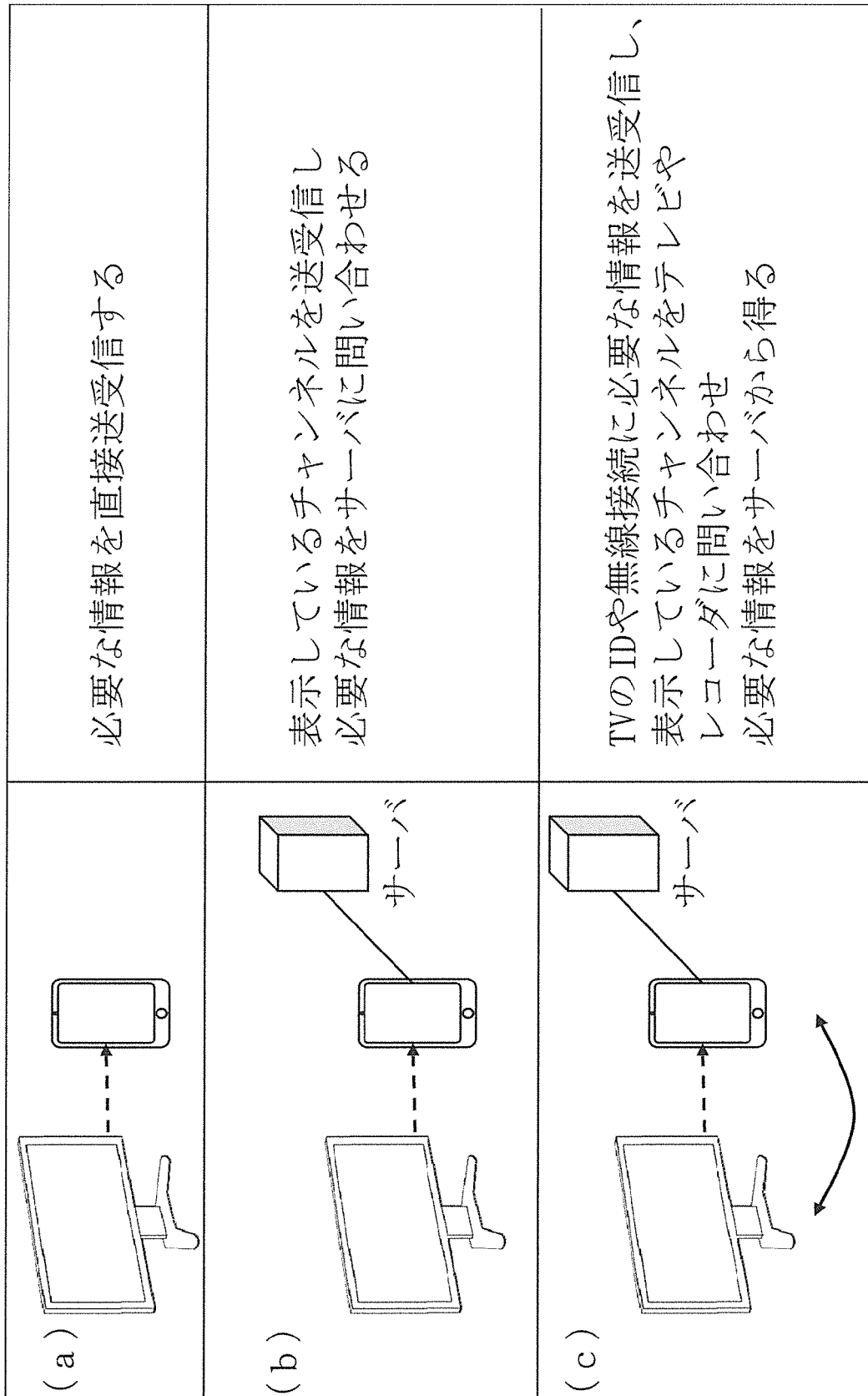
[図238]



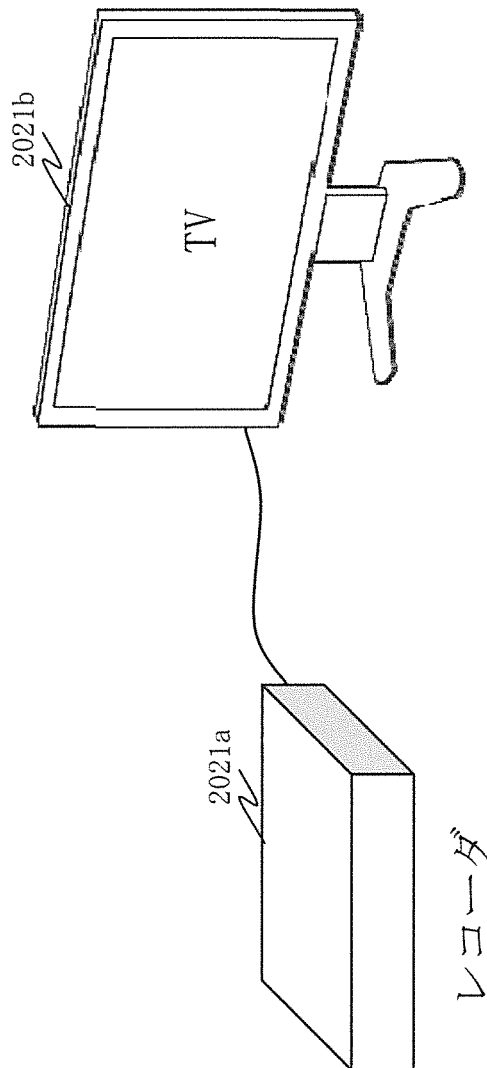
[図239]



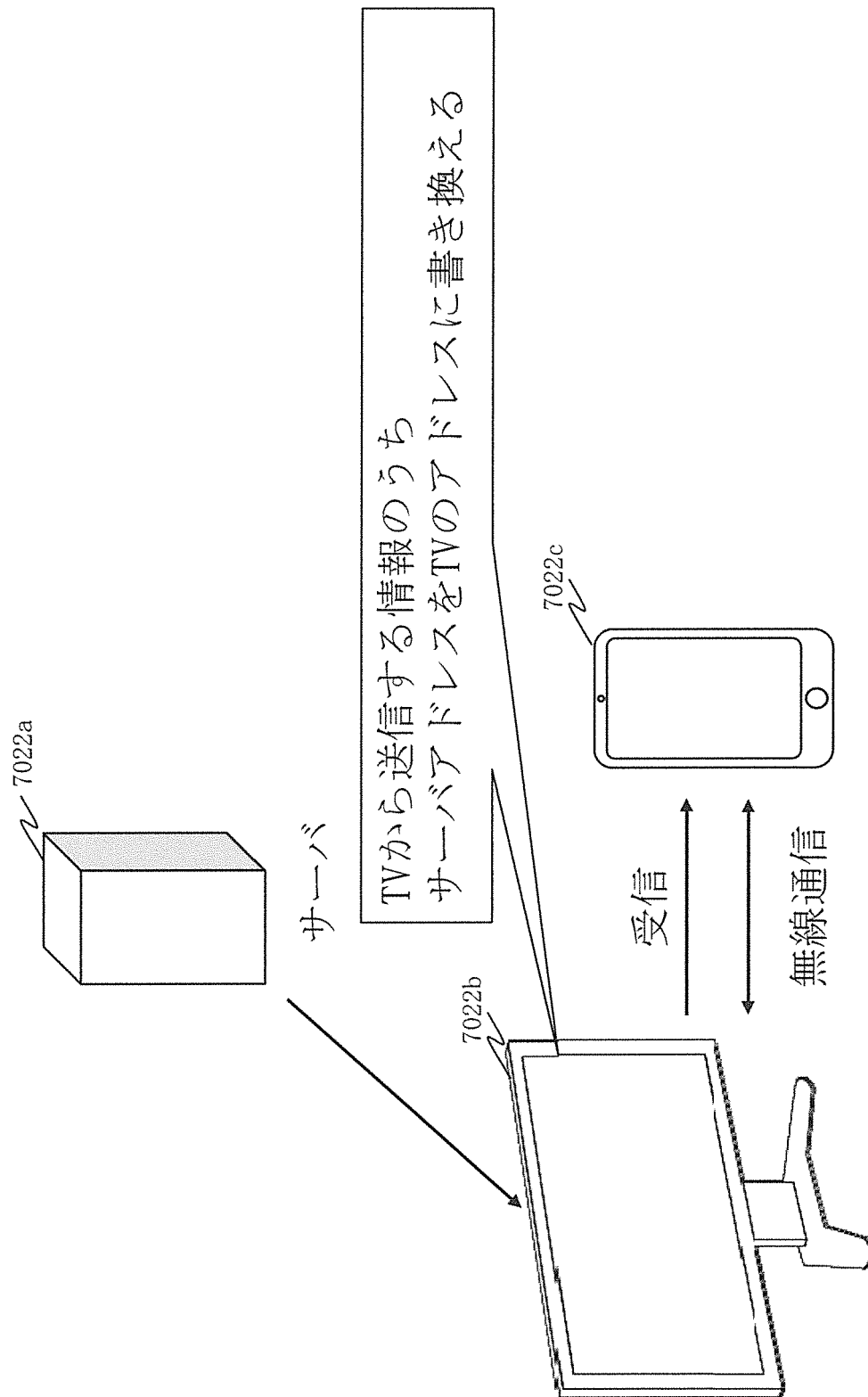
[図240]



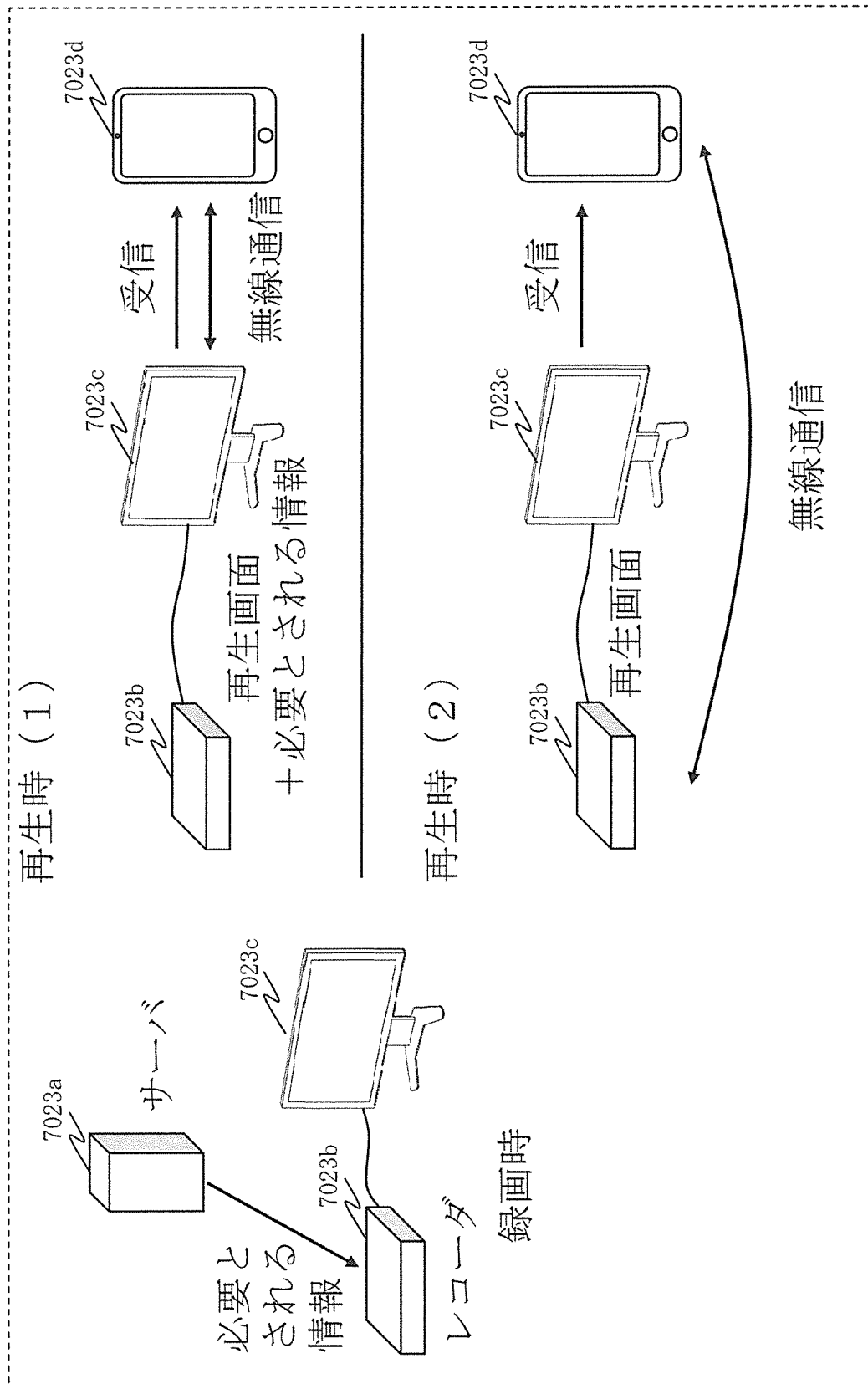
[図241]



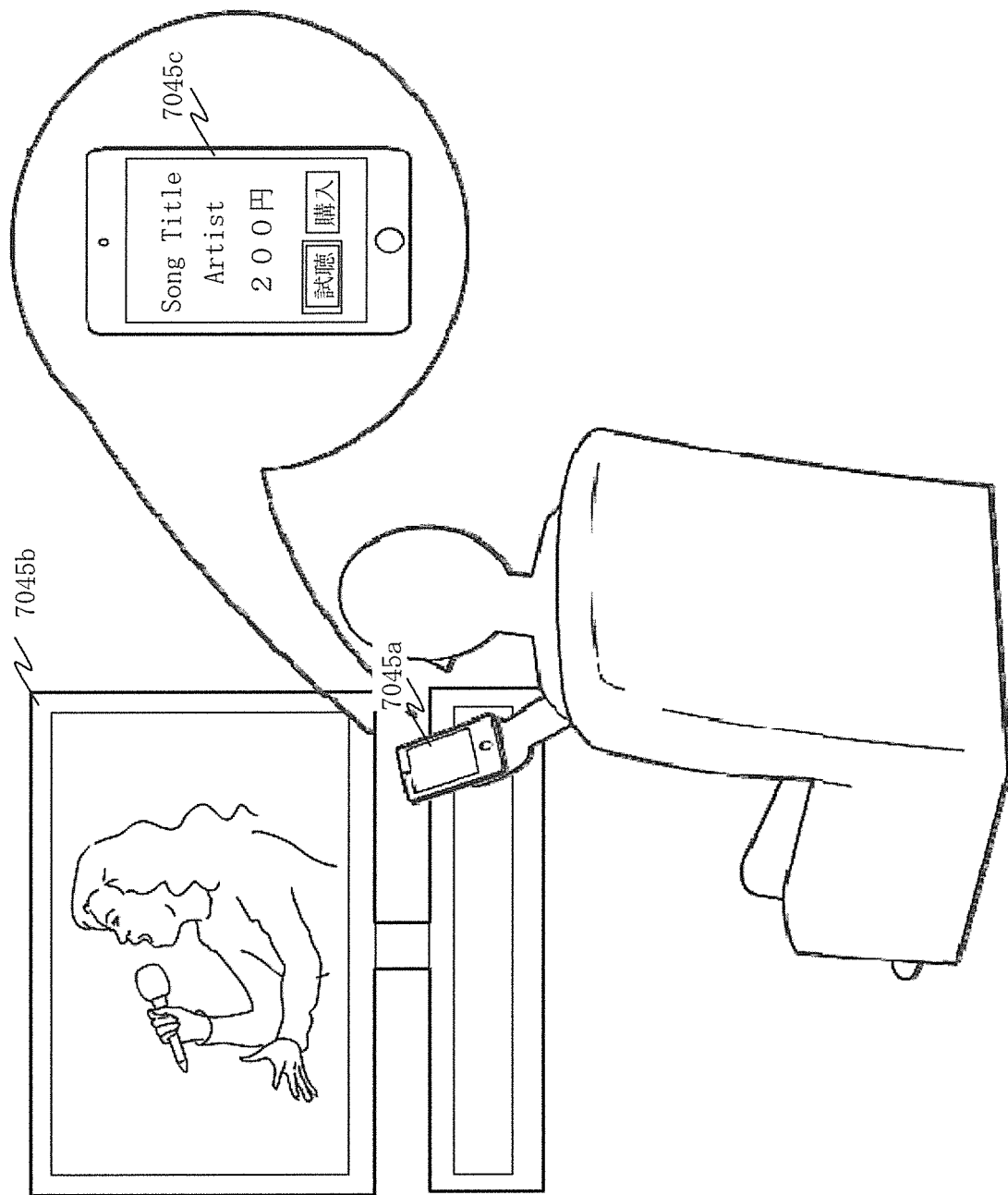
[図242]



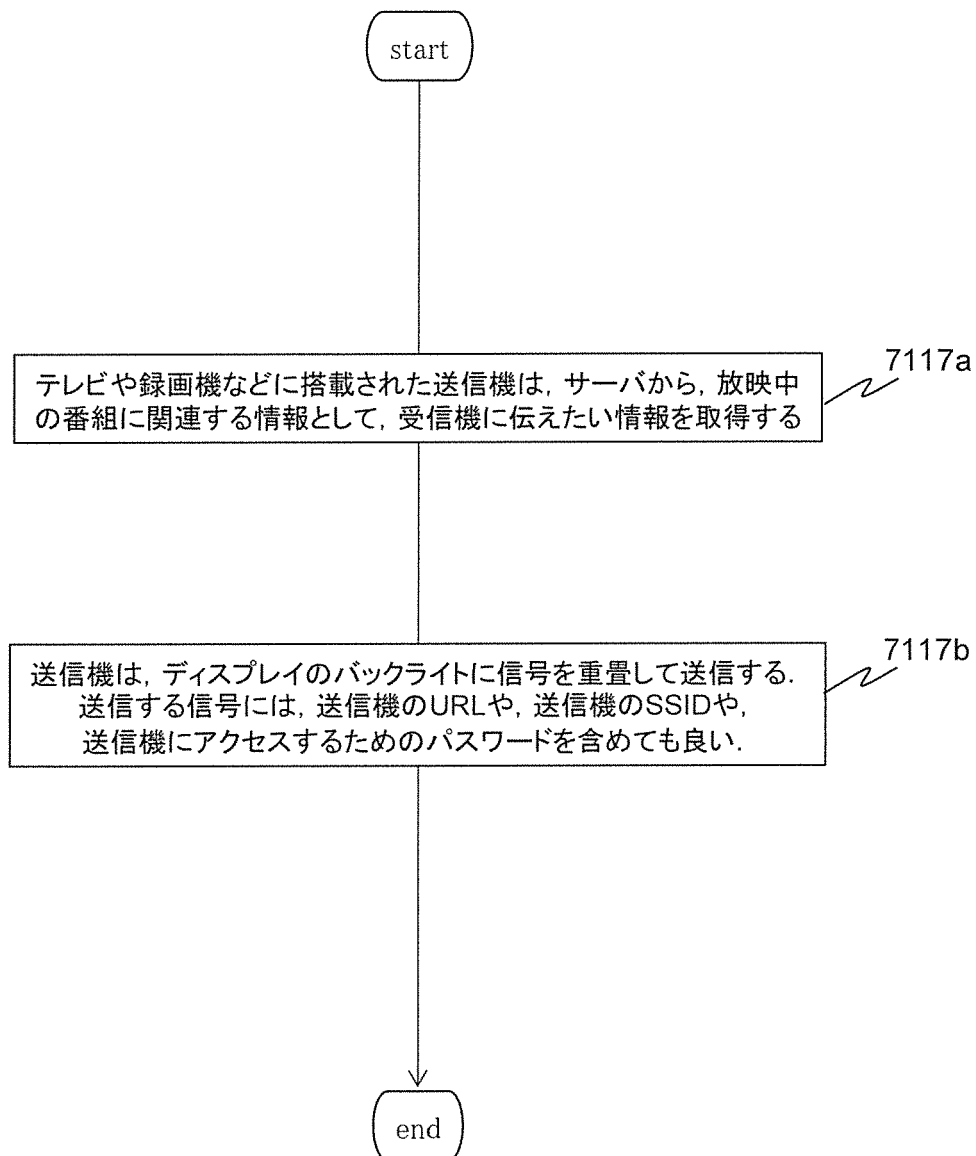
[図243]



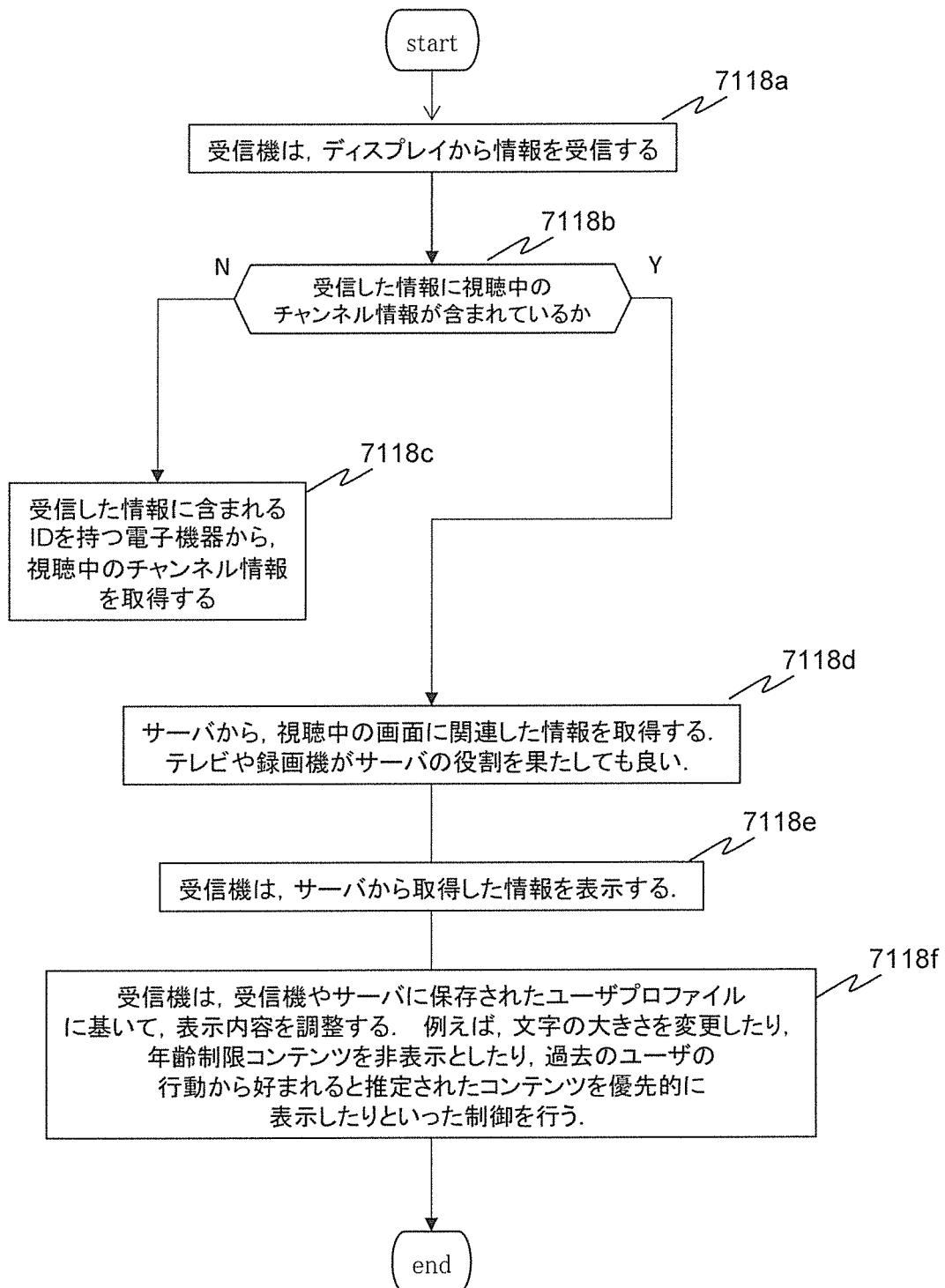
[図244]



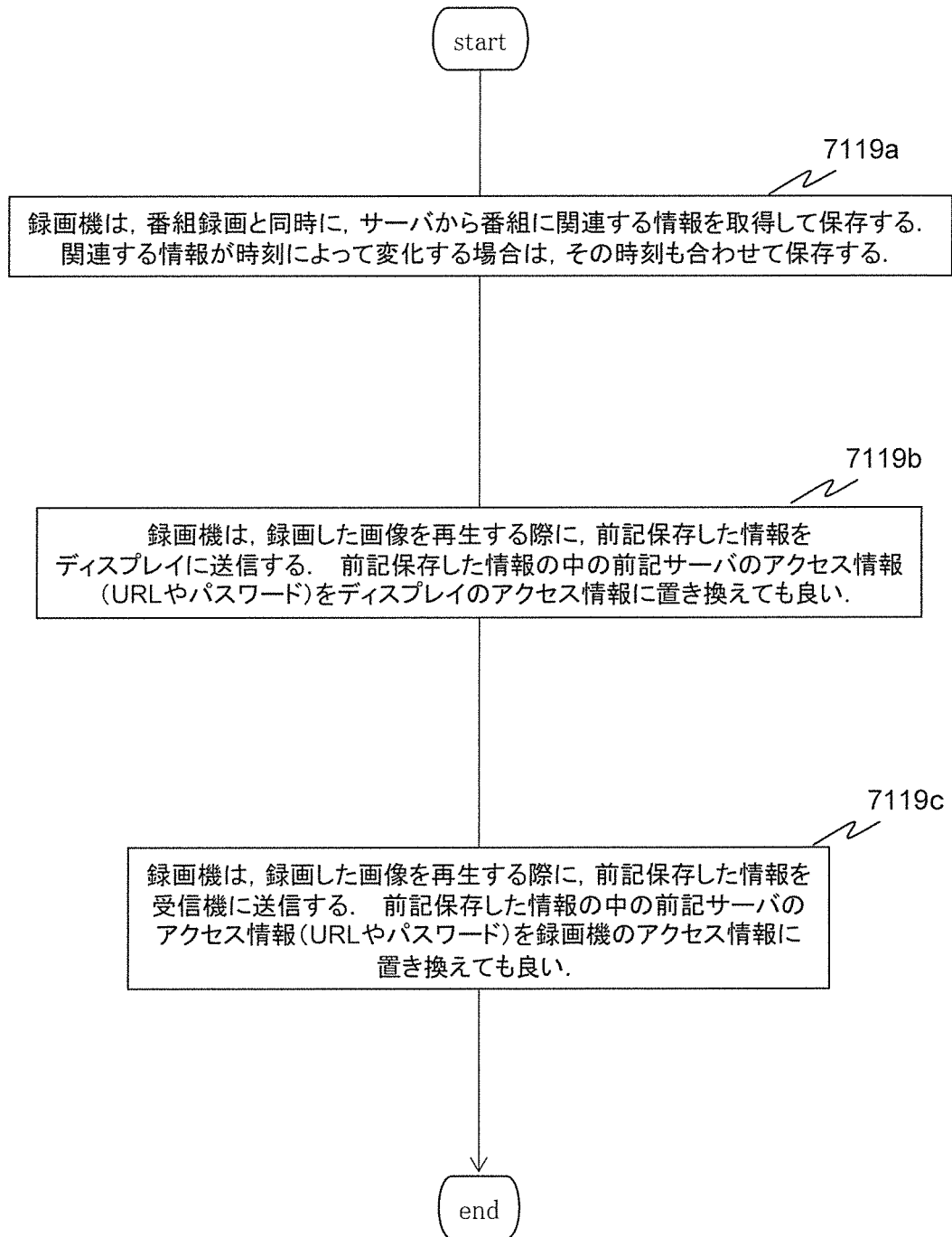
[図245]



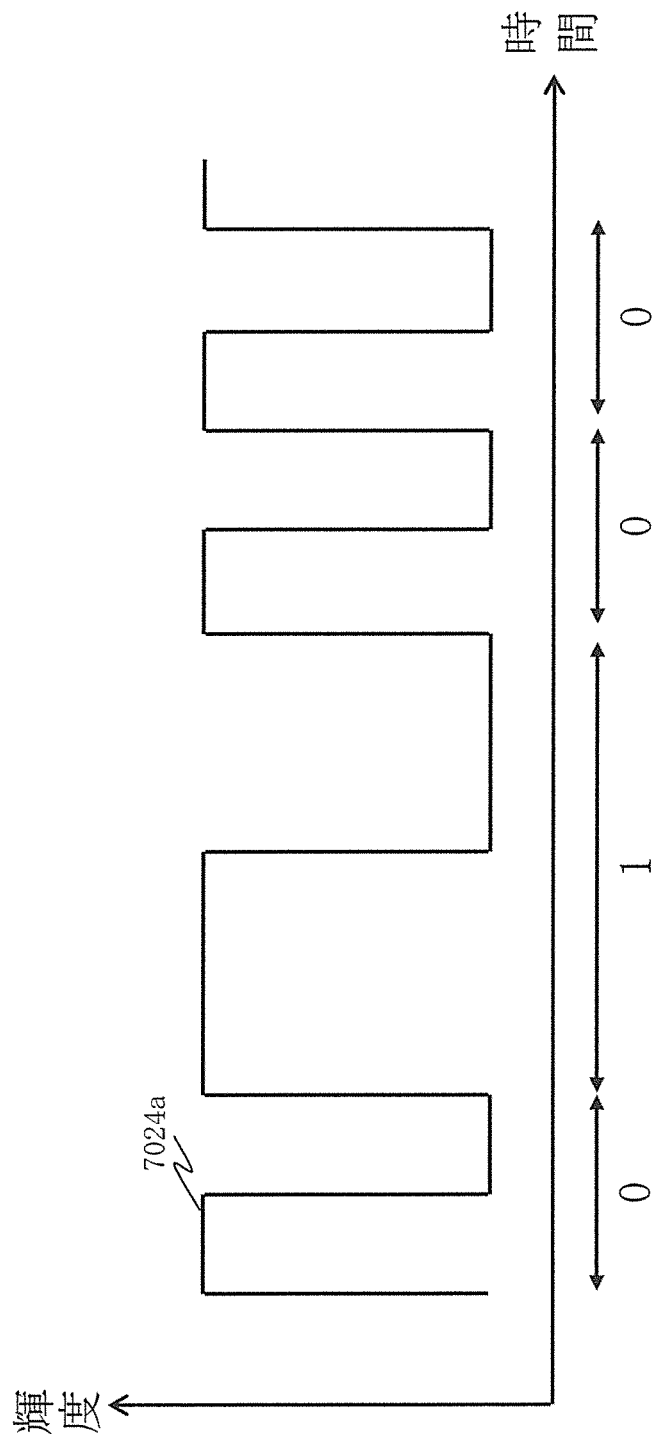
[図246]



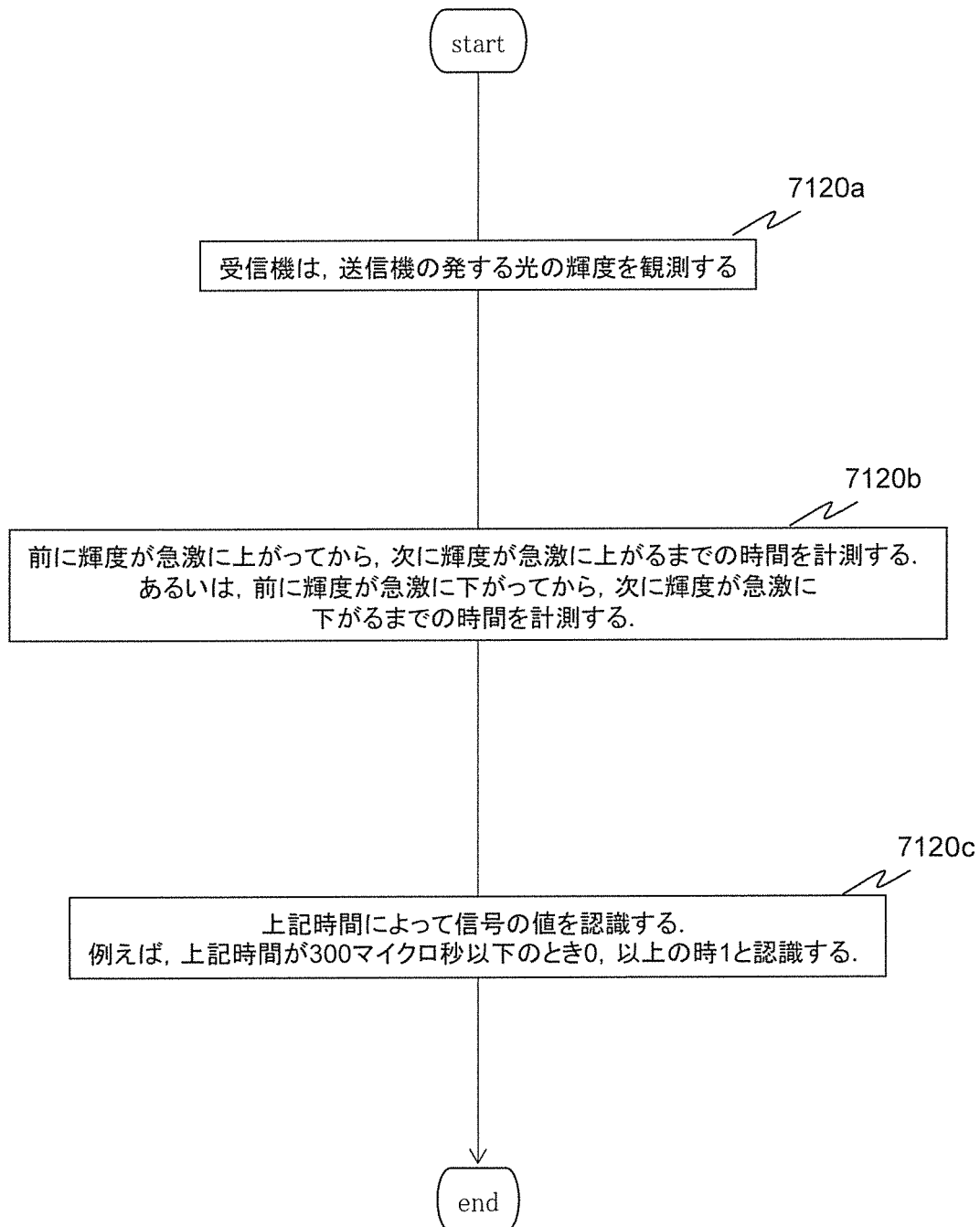
[図247]



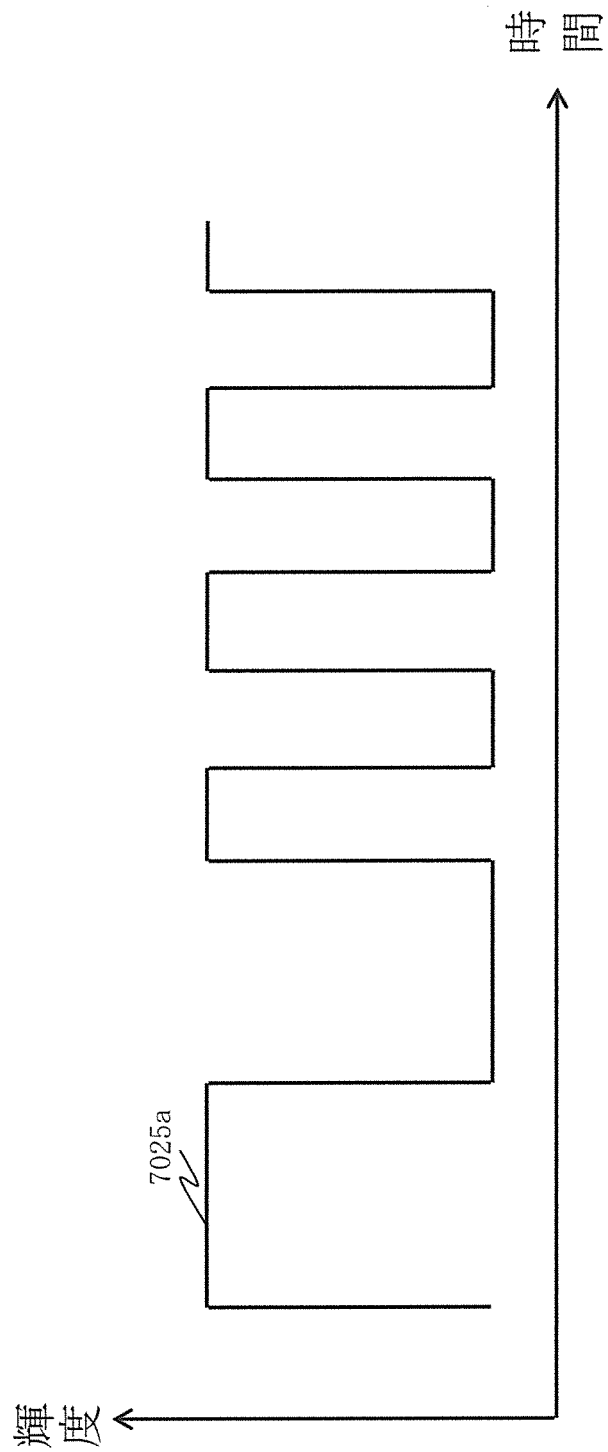
[図248]



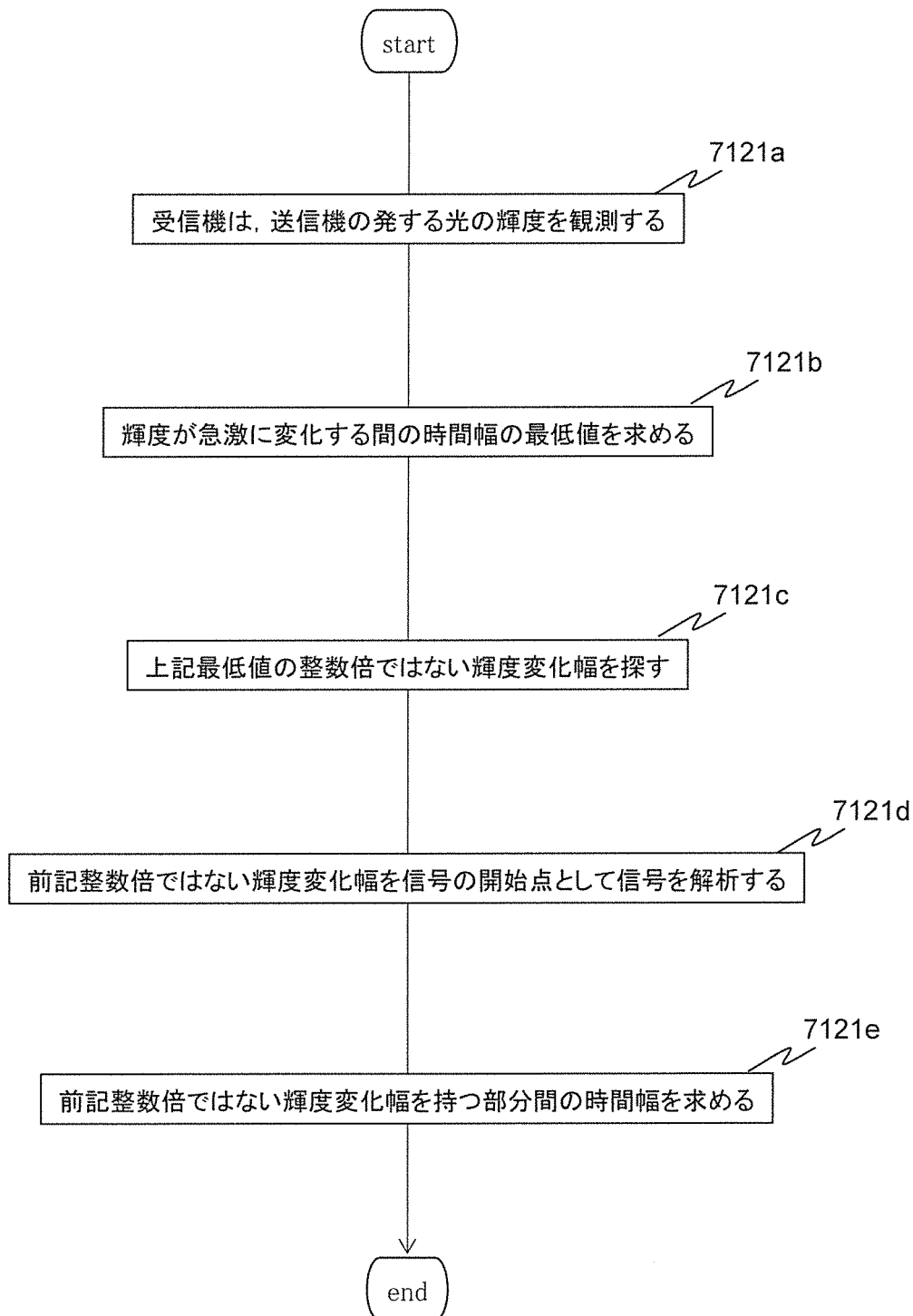
[図249]



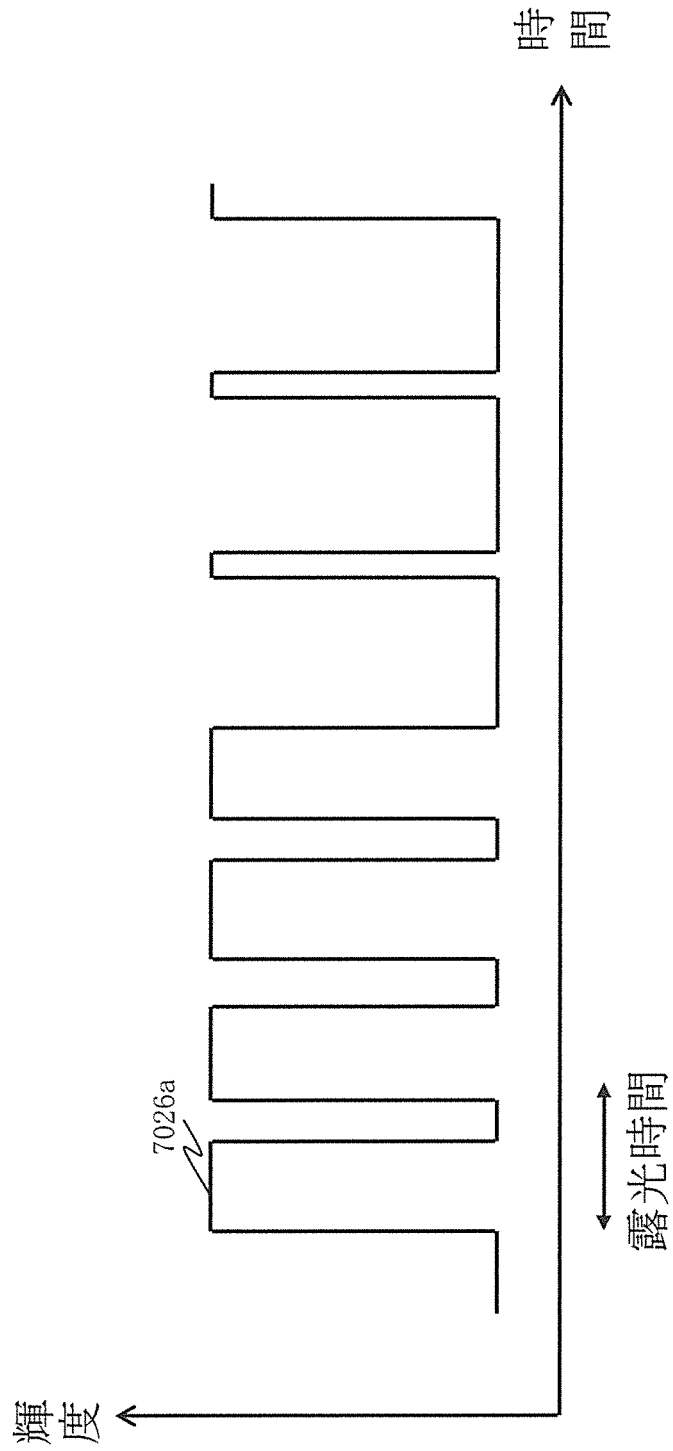
[図250]



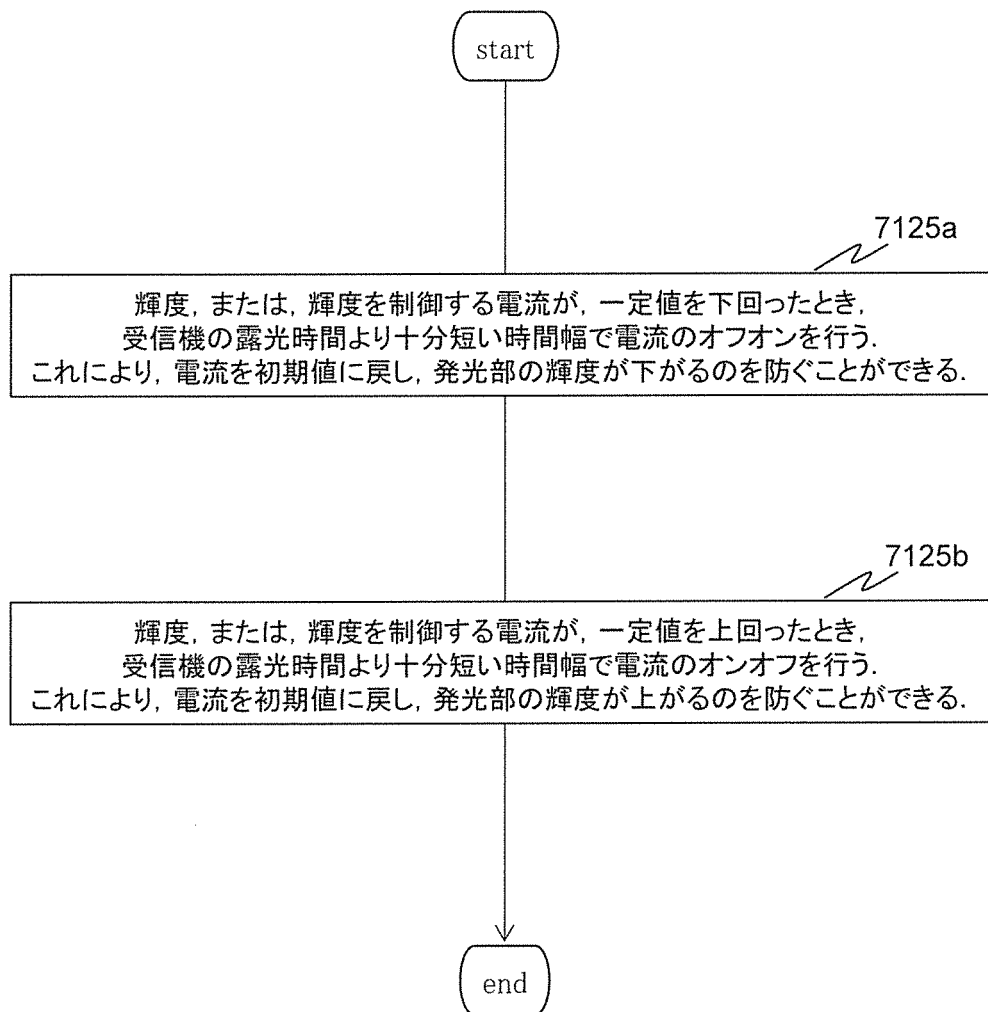
[図251]



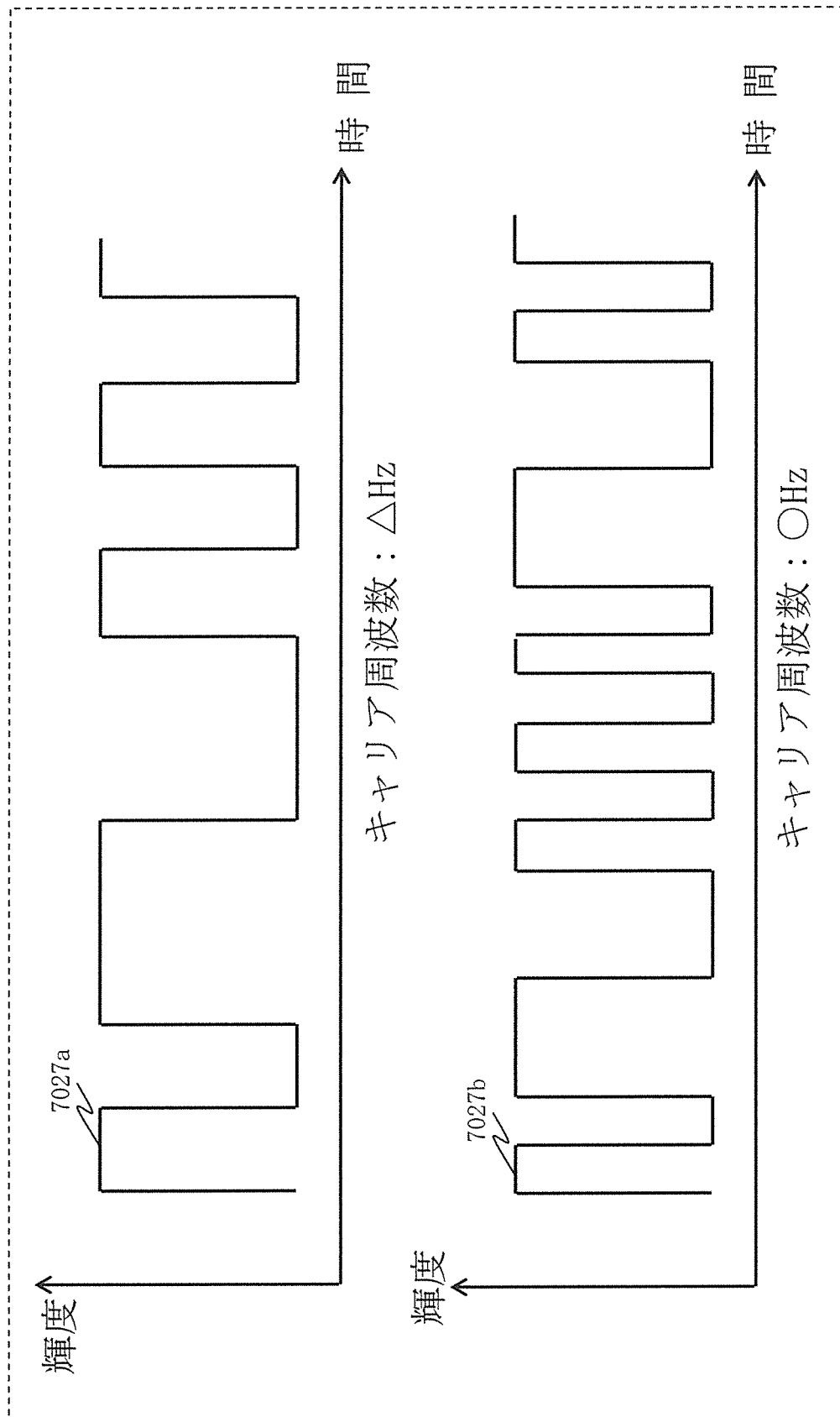
[図252]



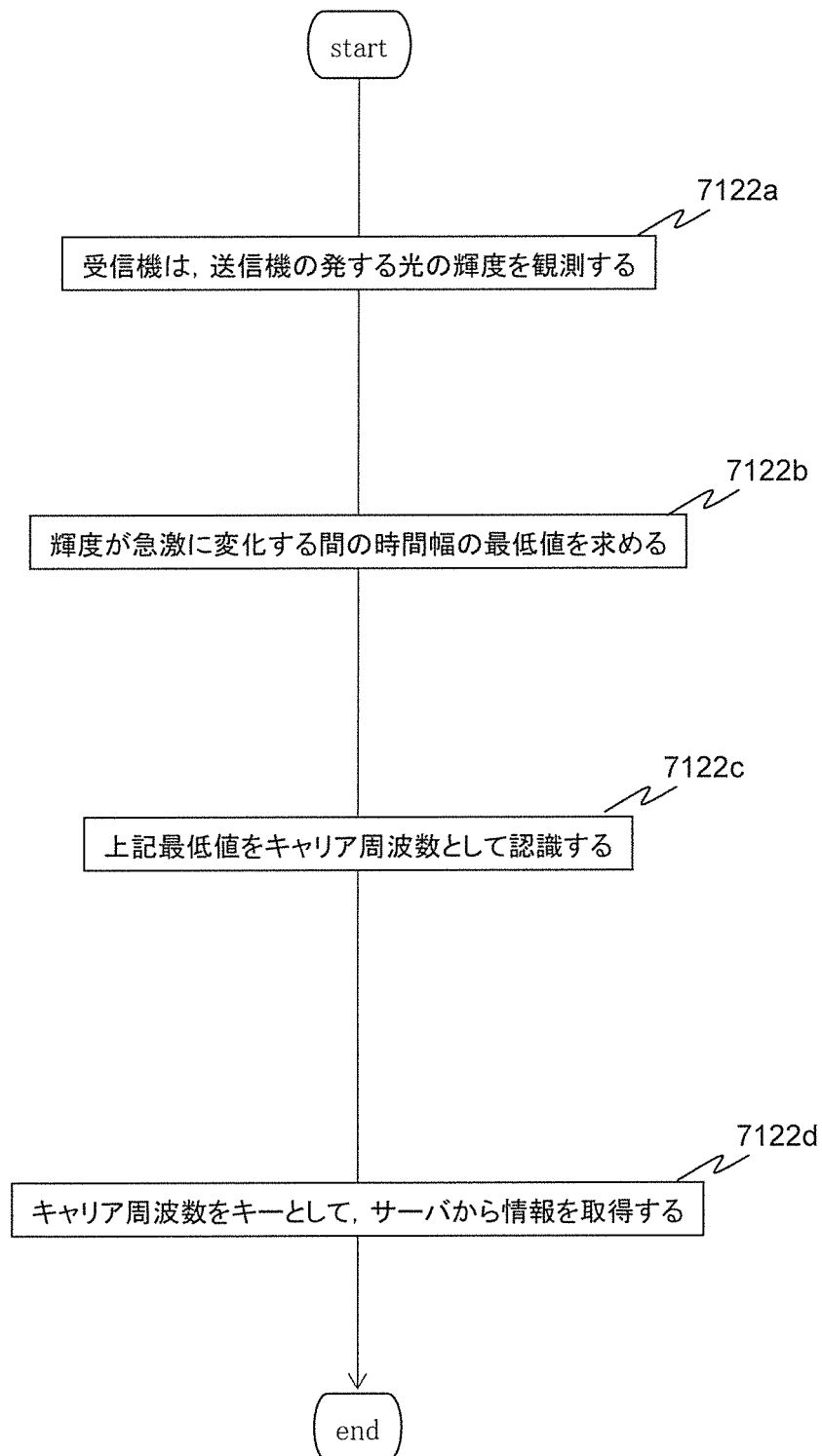
[図253]



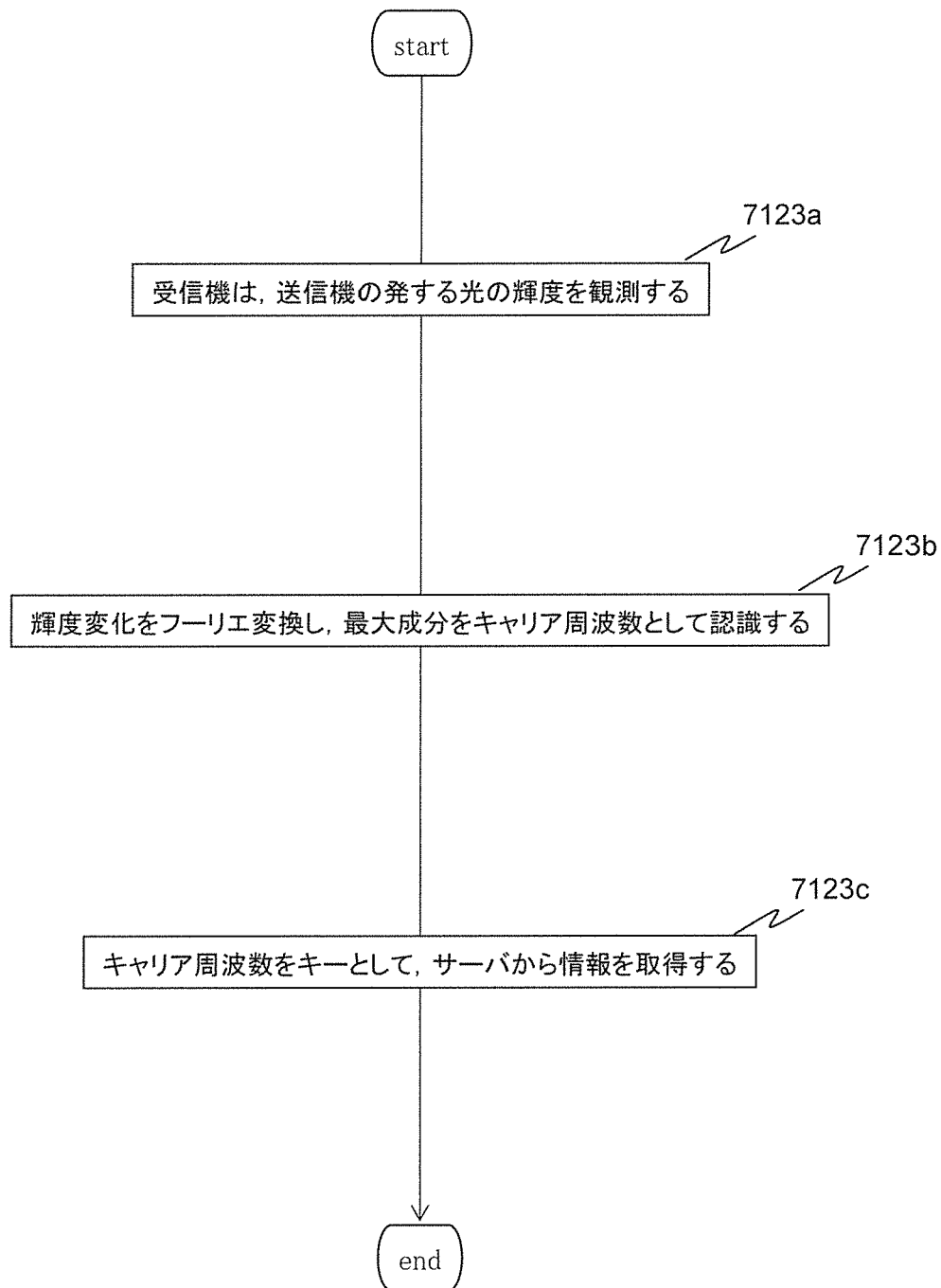
[図254]



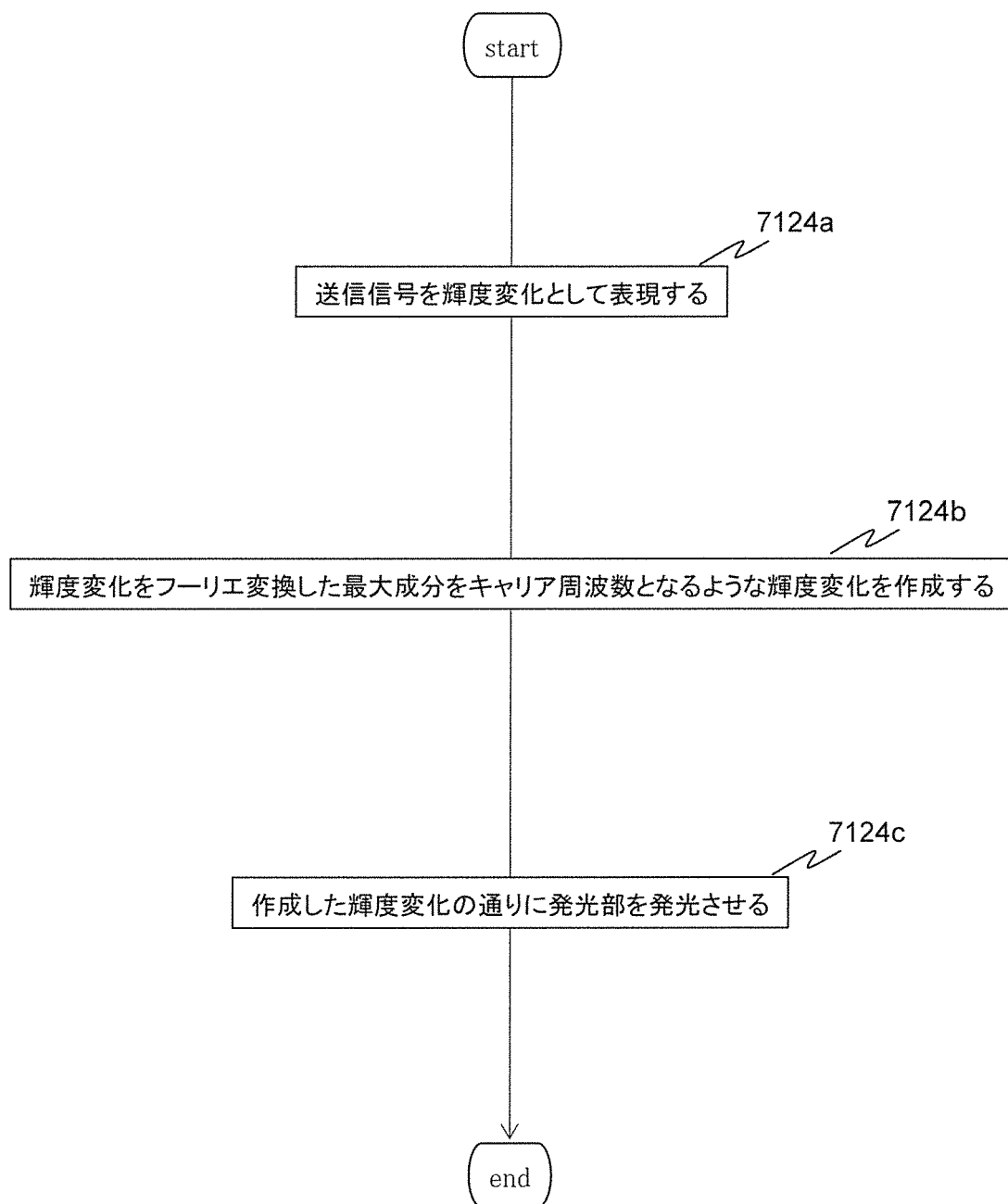
[図255]



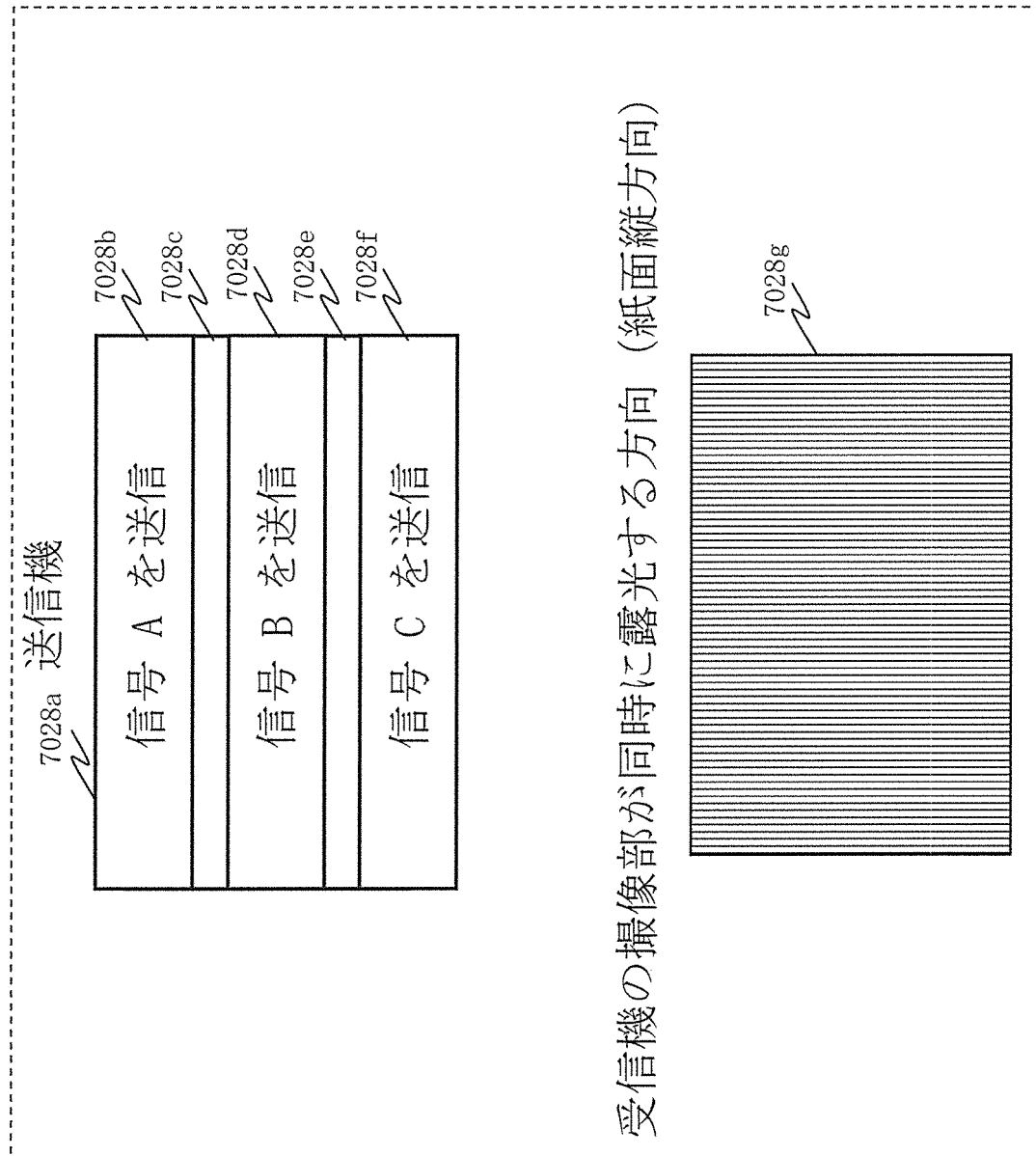
[図256]



[図257]



[図258]



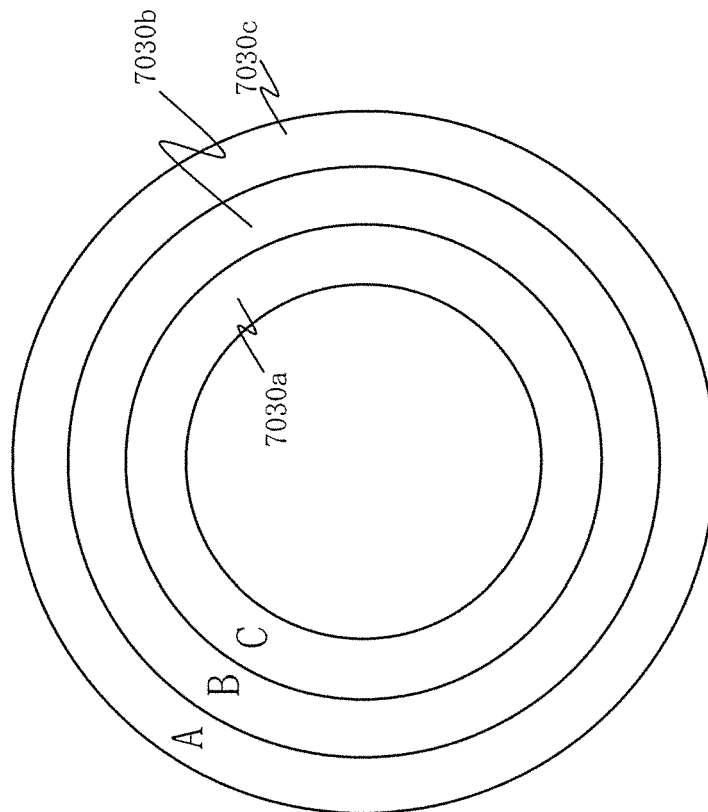
[図259]

送信機

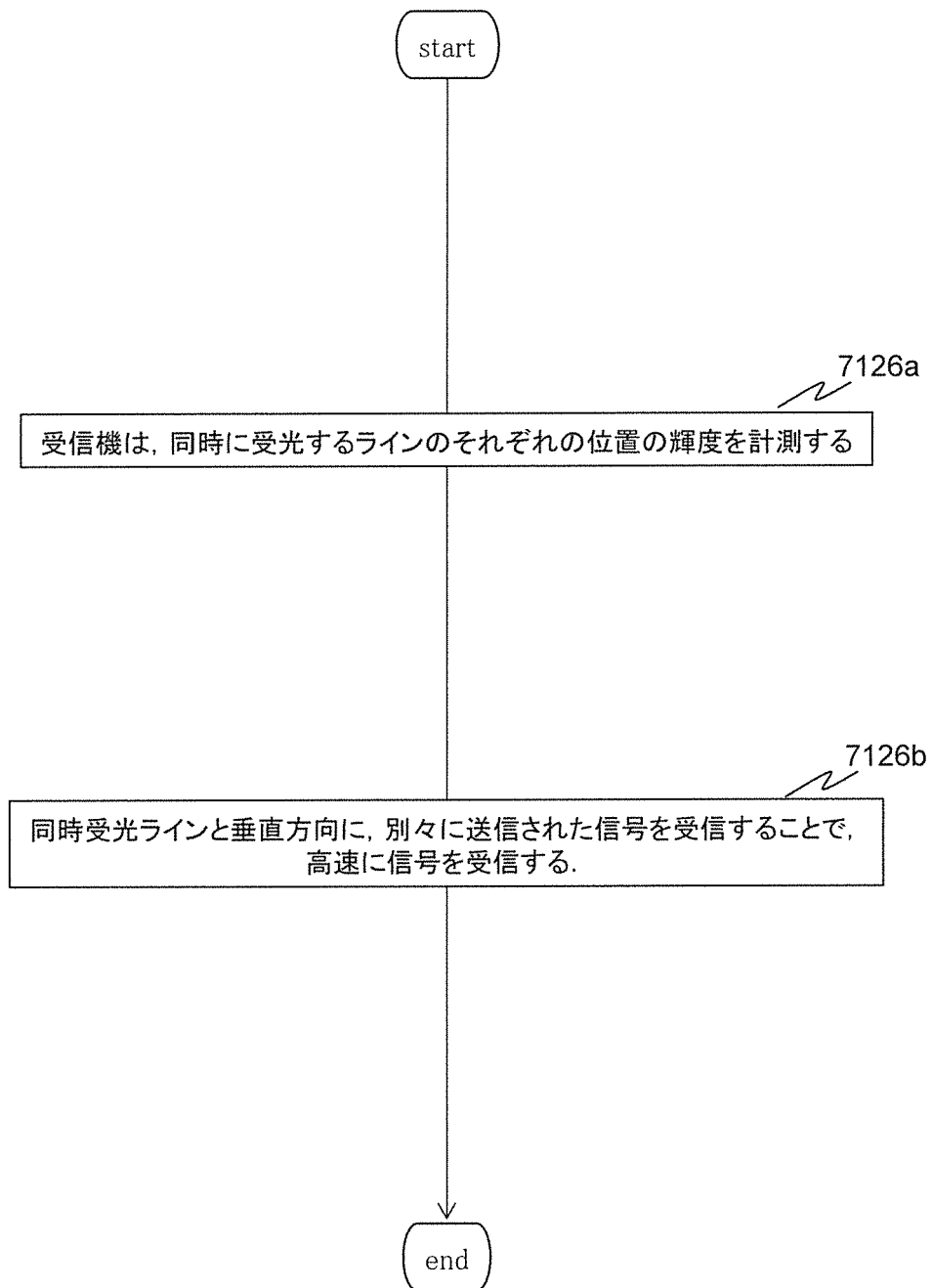
A	C	B
B	A	C
C	B	A

7029a

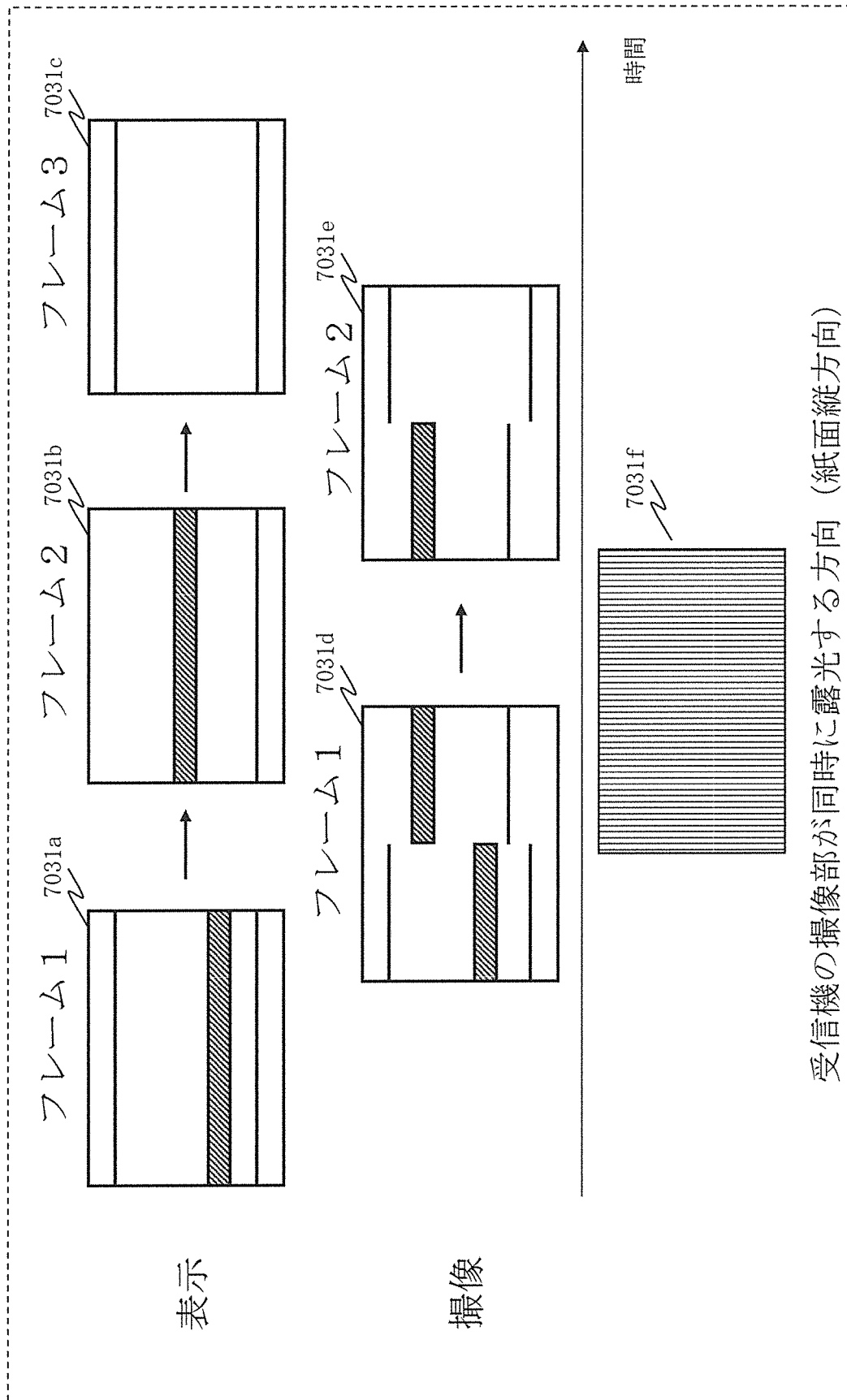
[図260]



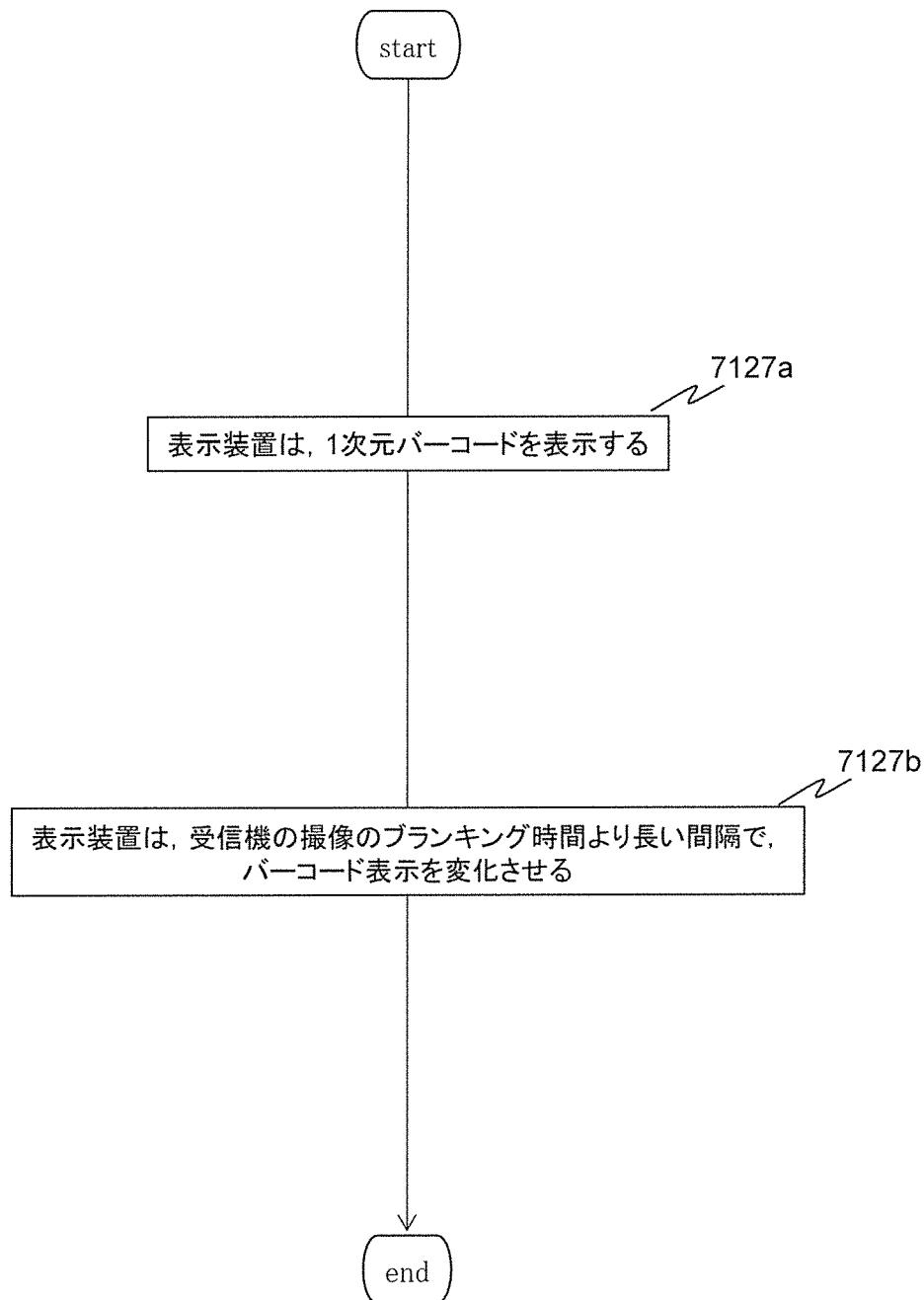
[図261]



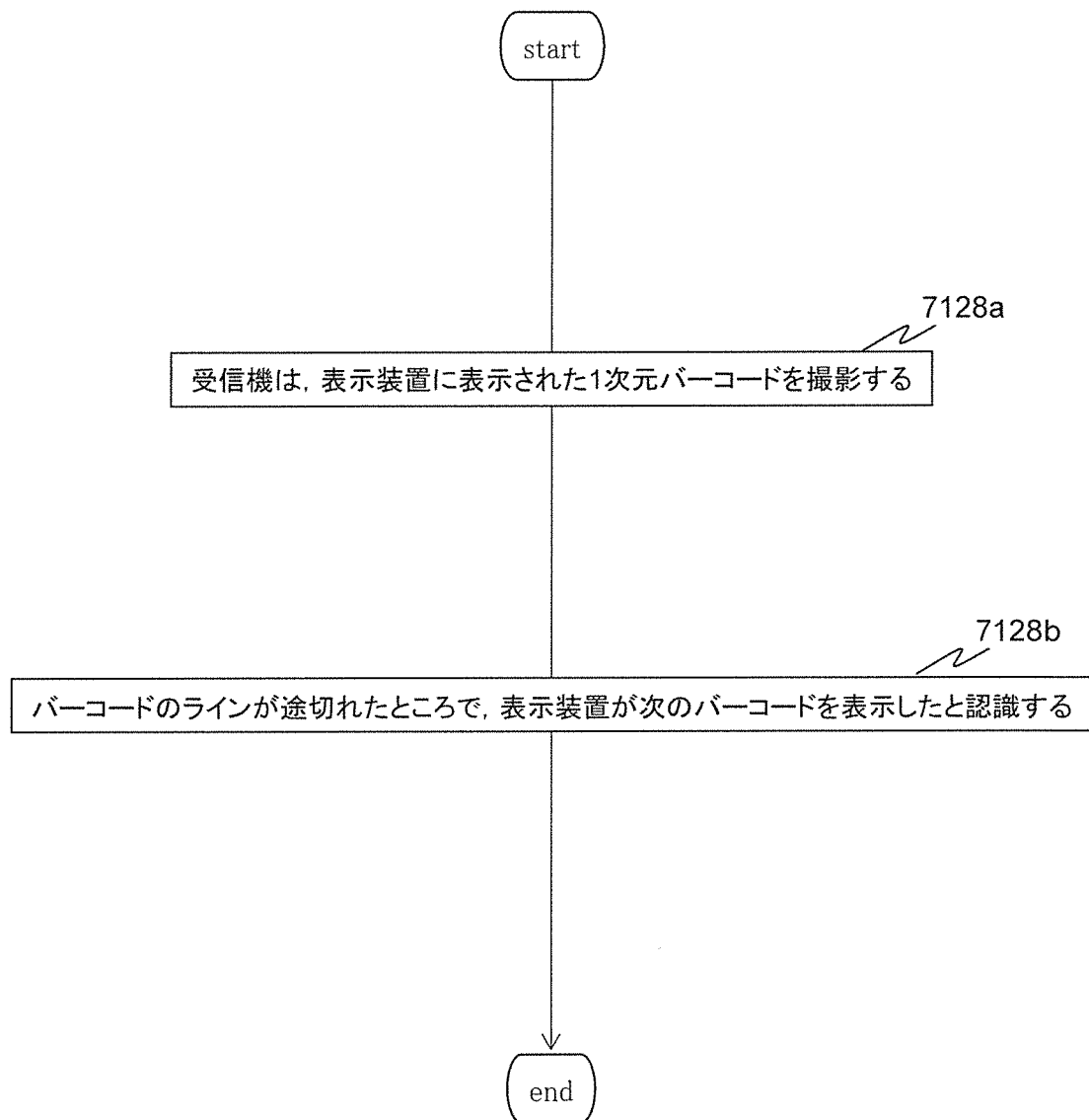
[図262]



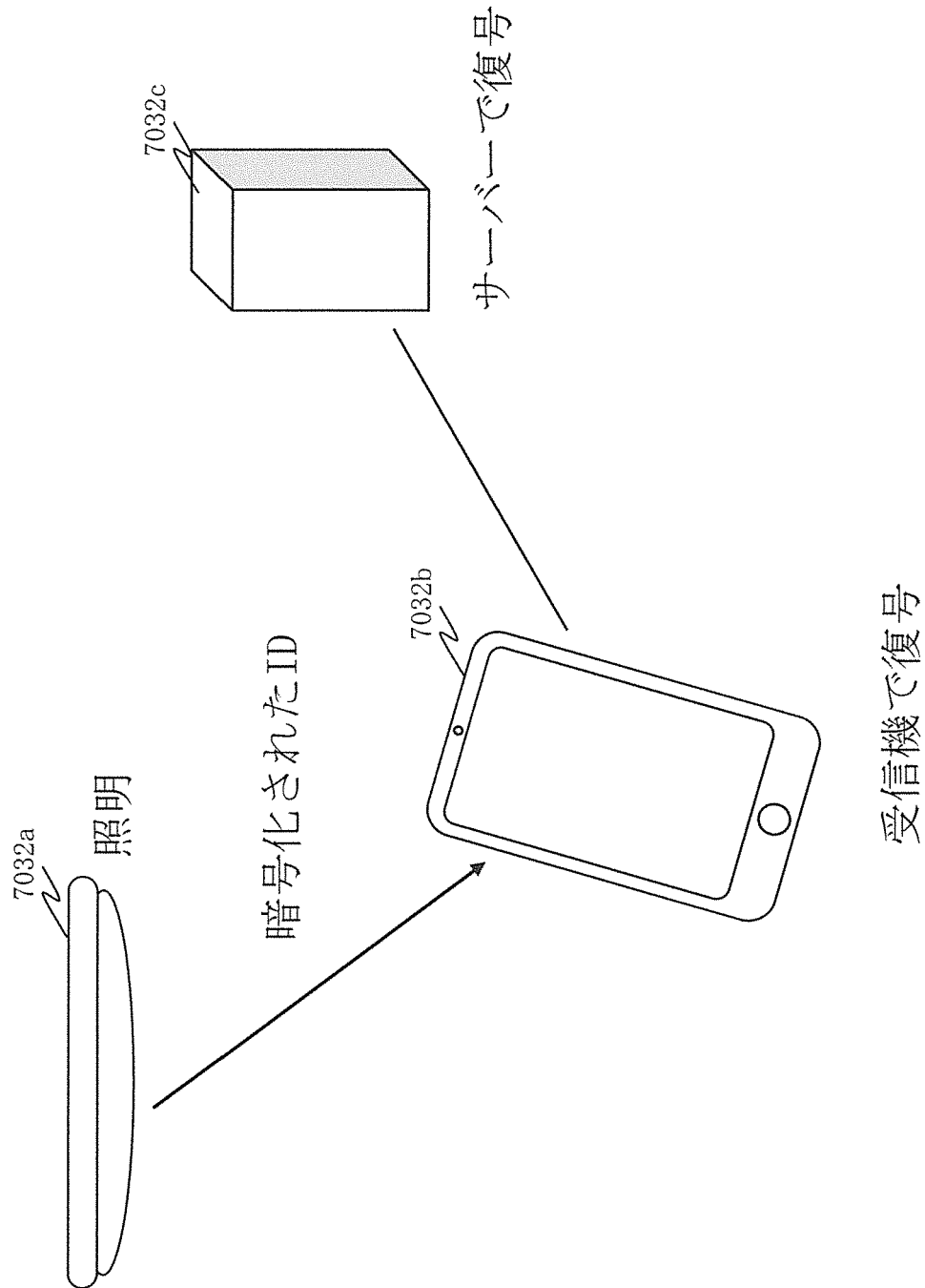
[図263]



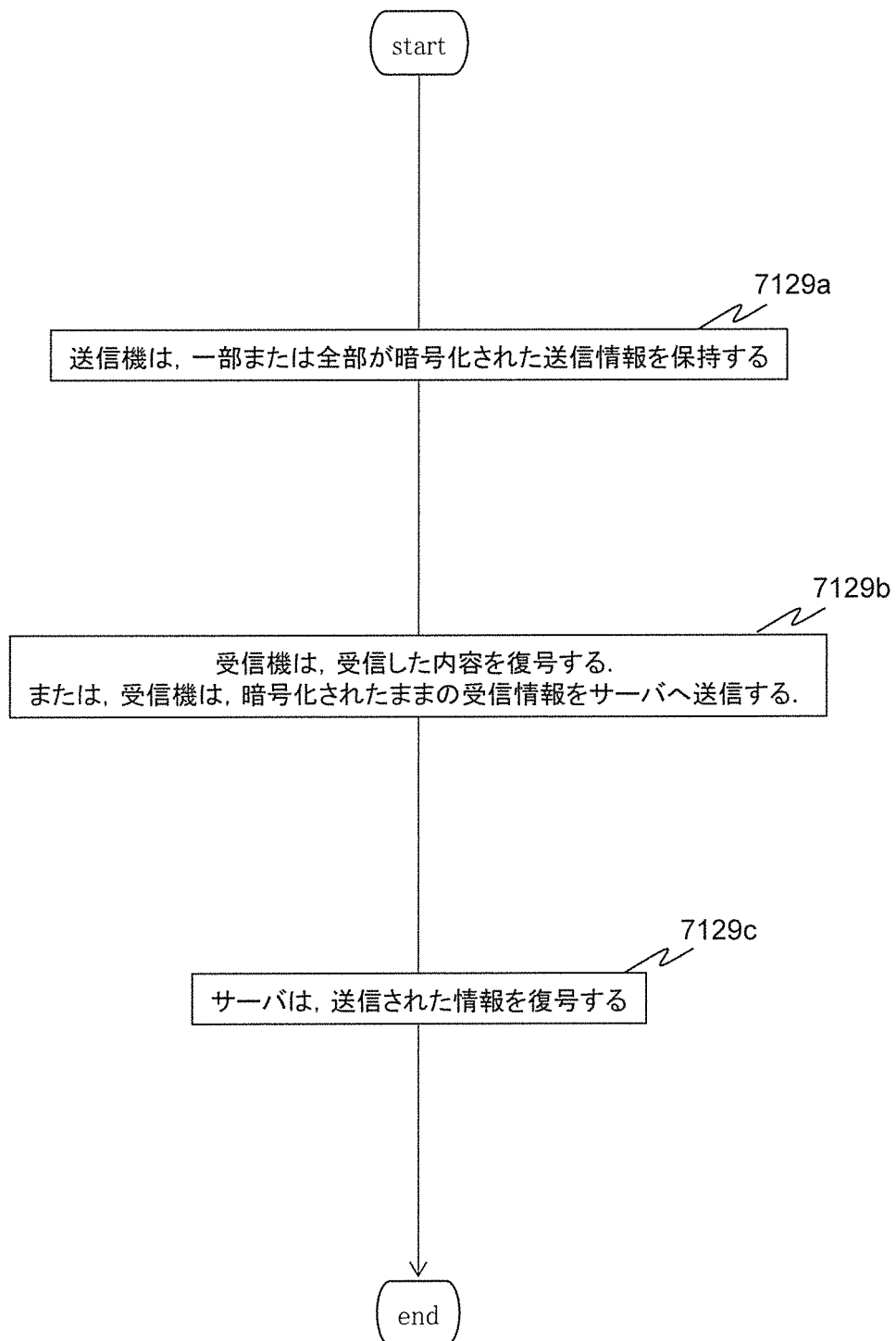
[図264]



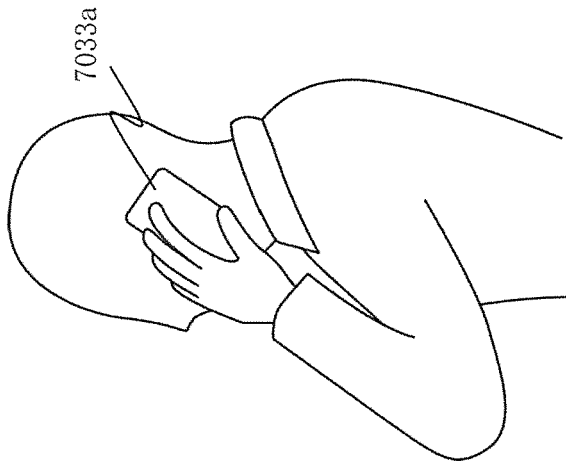
[図265]



[図266]

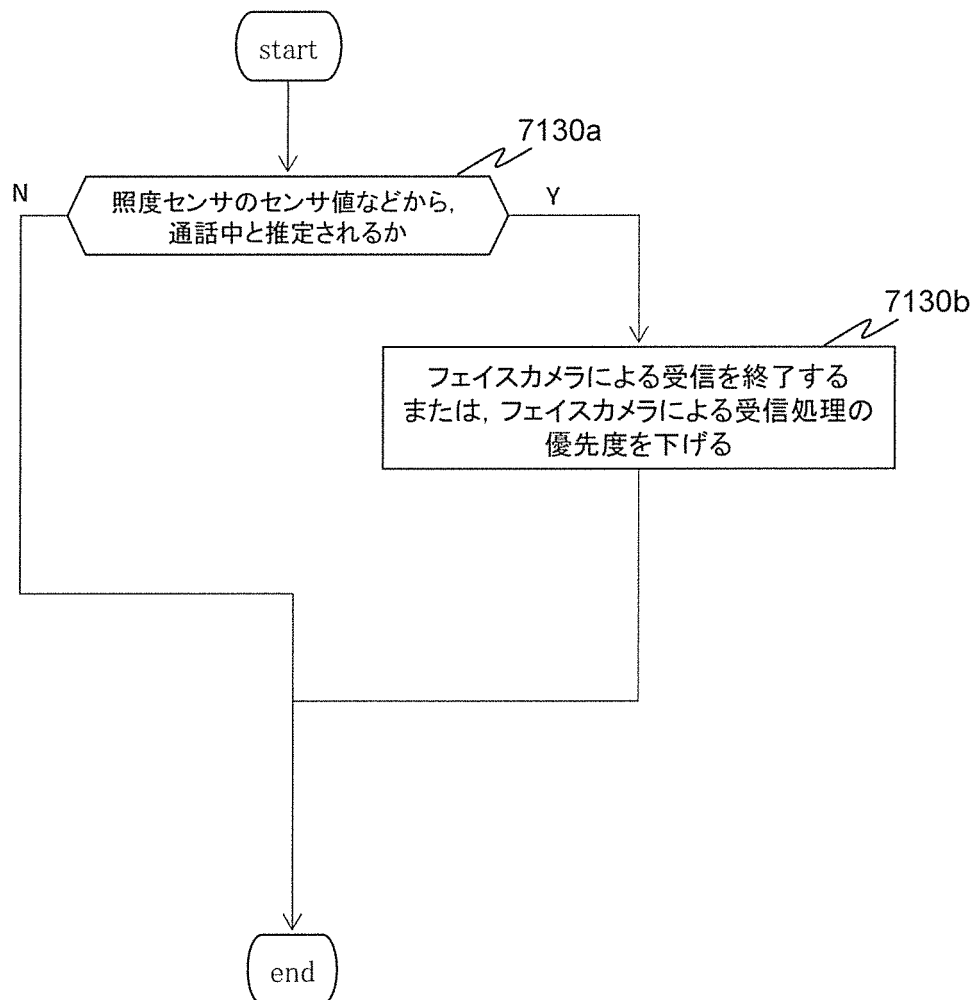


[図267]

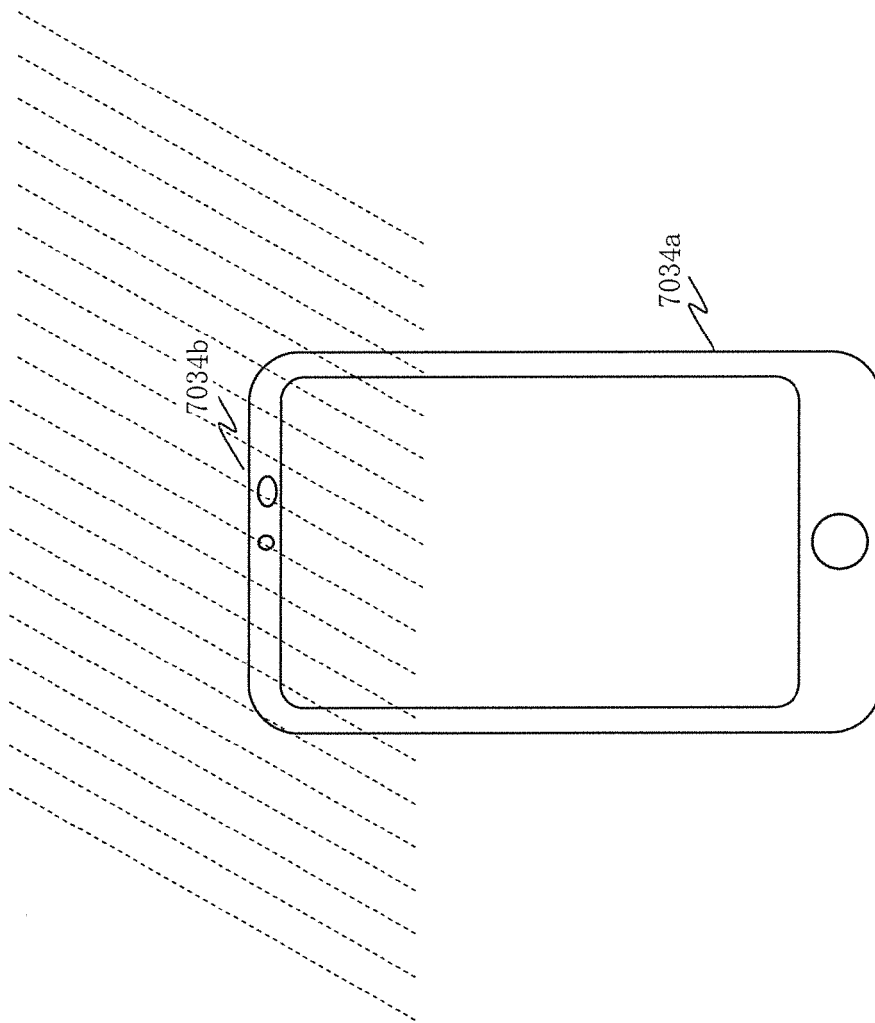


照度センサの値が低く、
通話中と推定されるときは受信を停止

[図268]

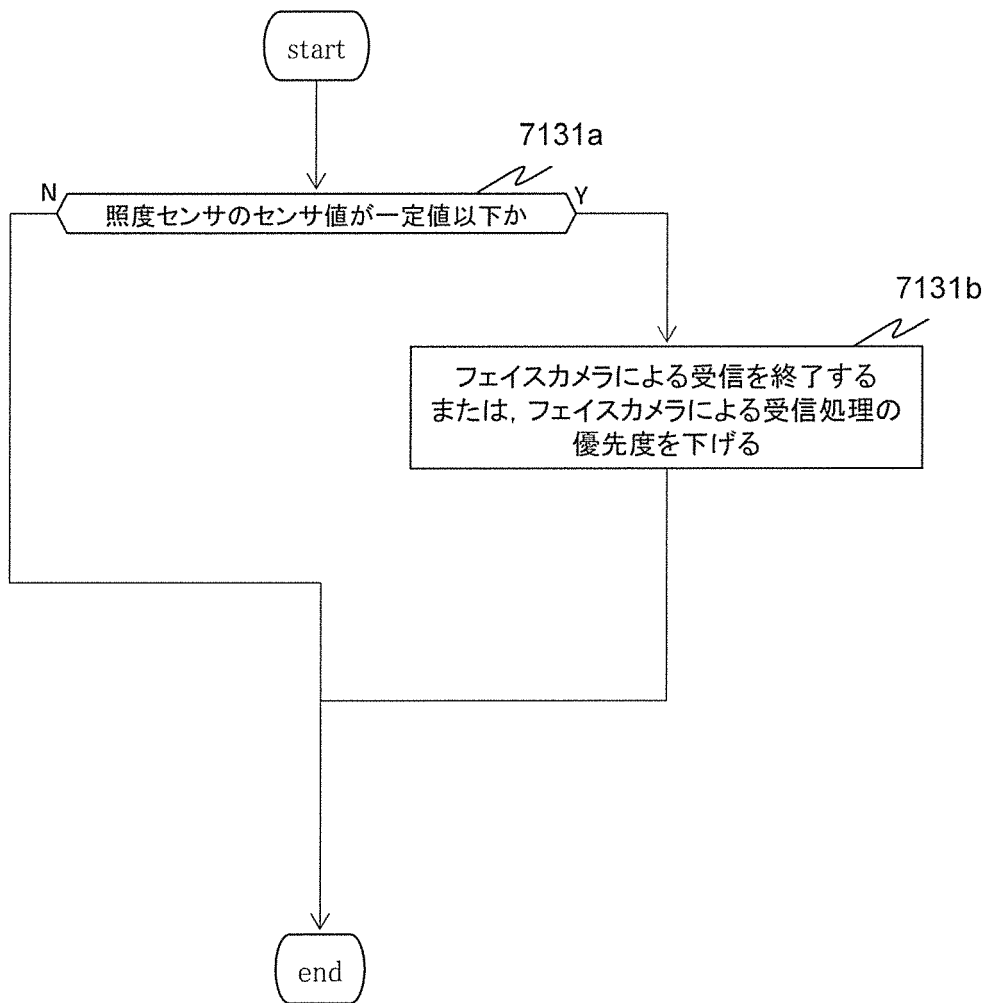


[図269]

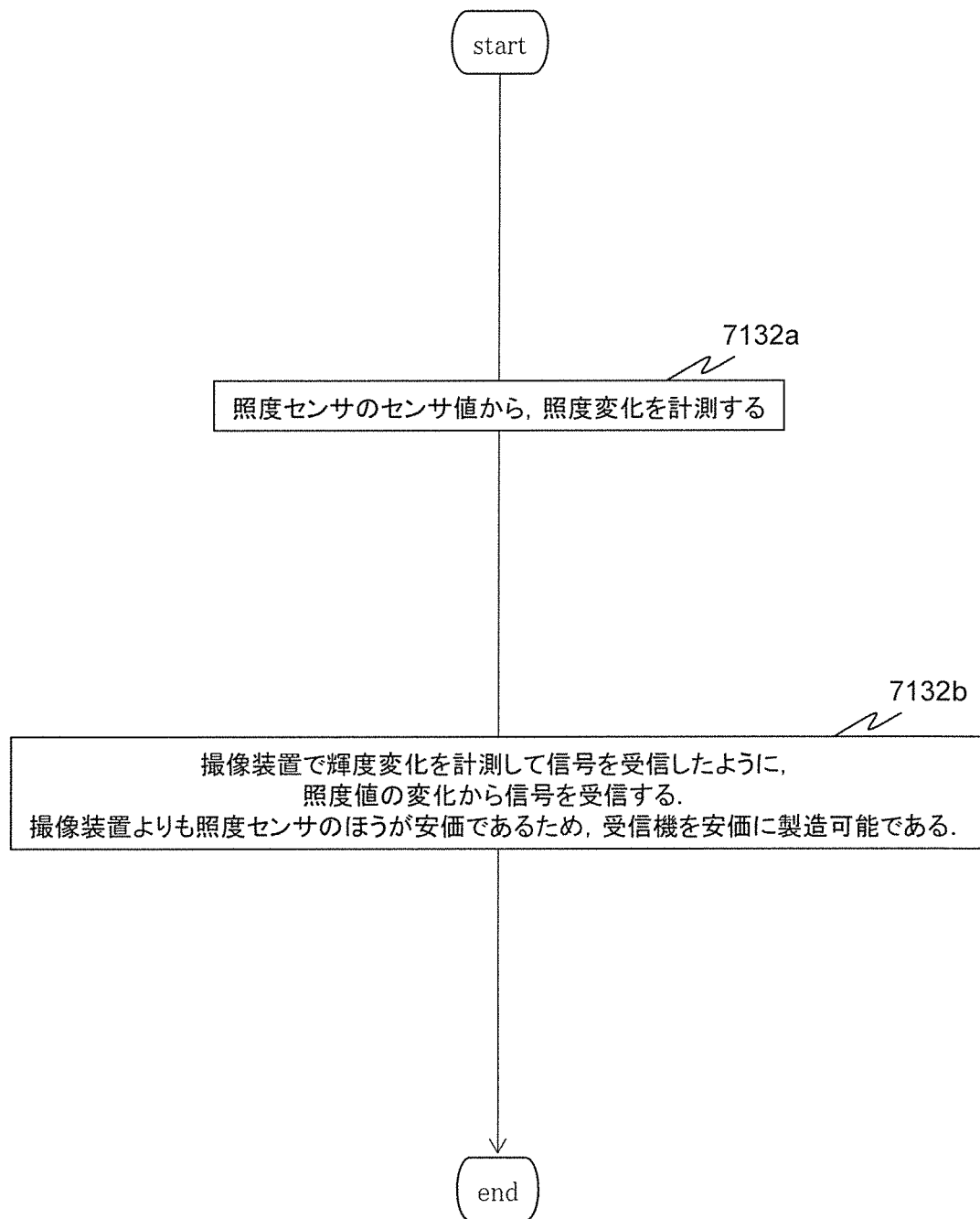


照度センサの計測値が一定値以下の場合は、照度センサ側の撮像装置を用いた受信処理を中止する、あるいは、優先度を下げる

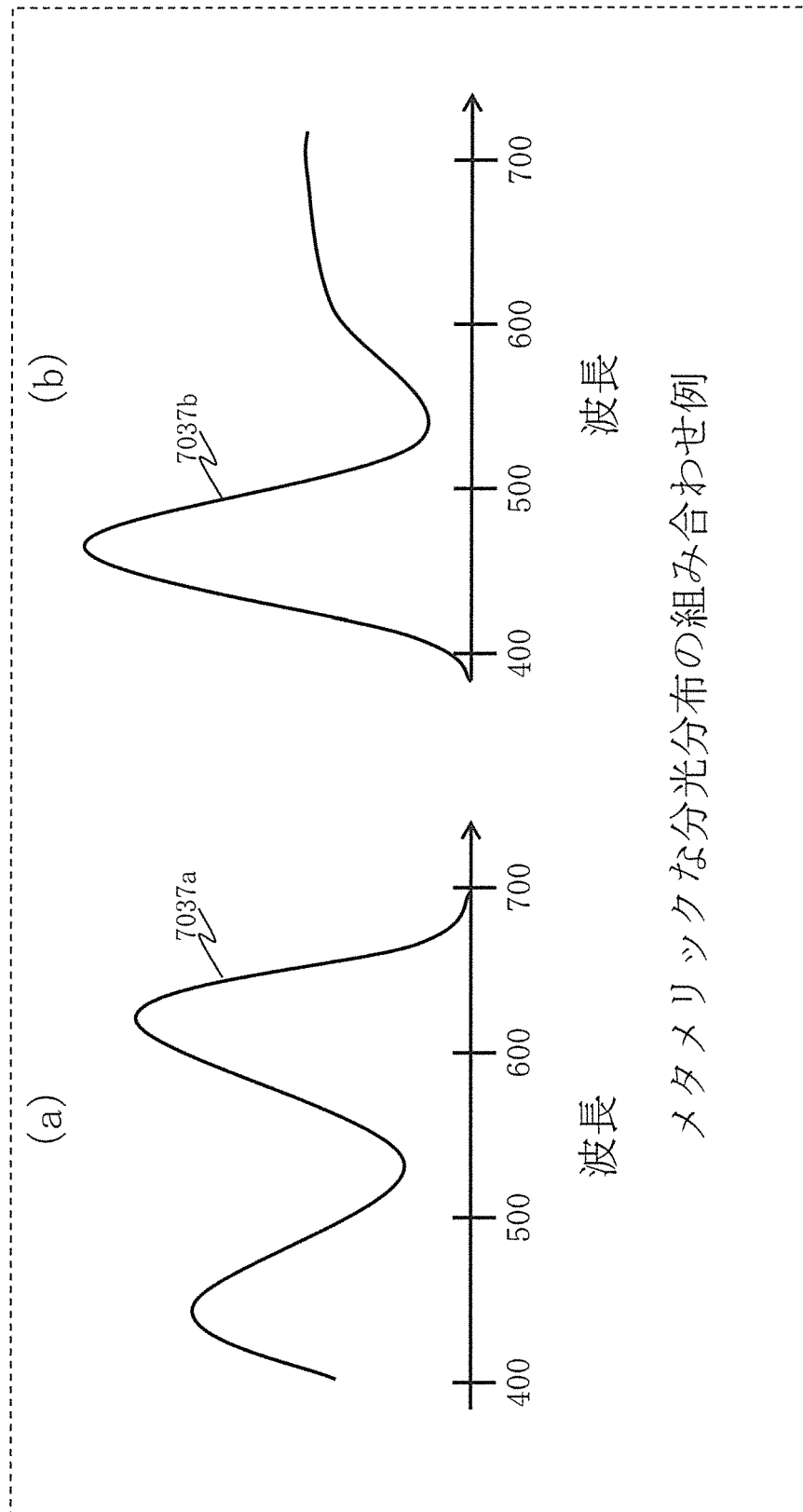
[図270]



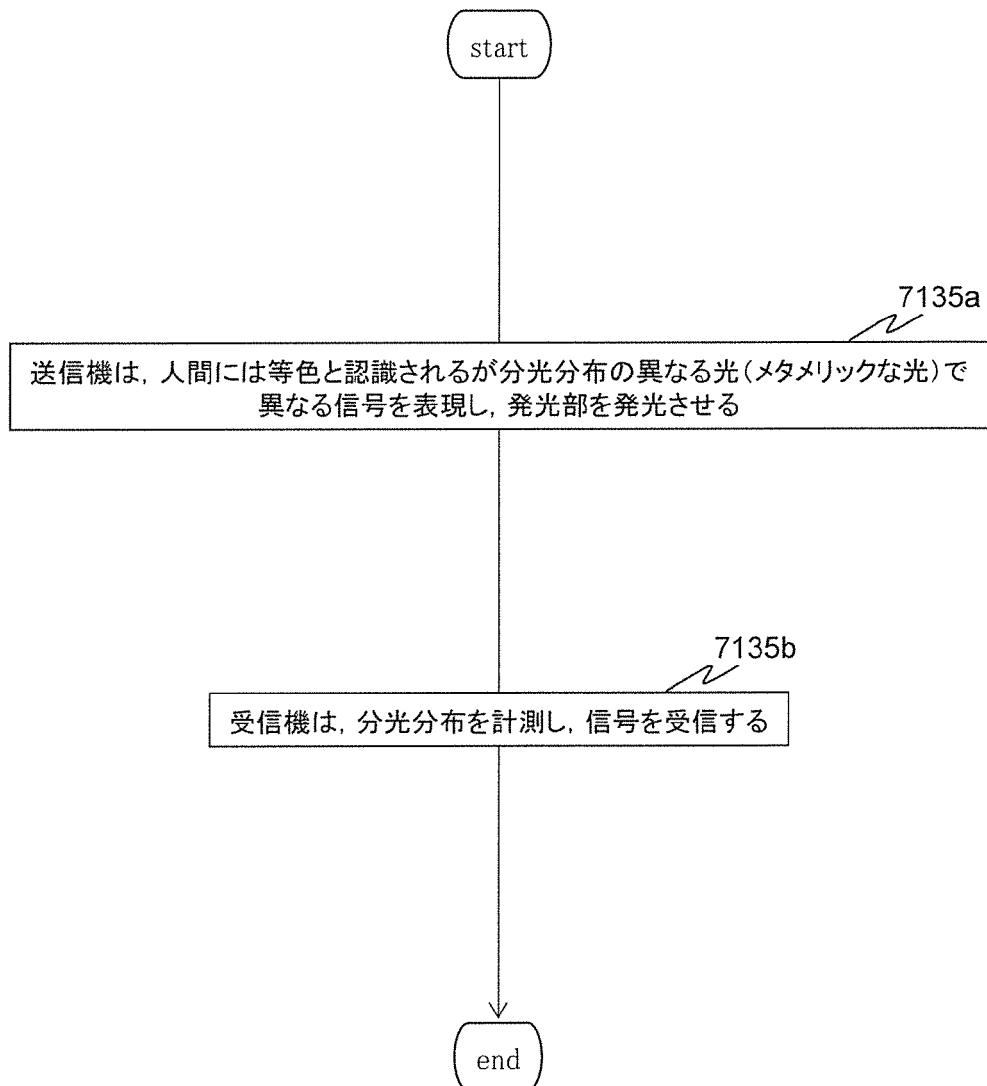
[図271]



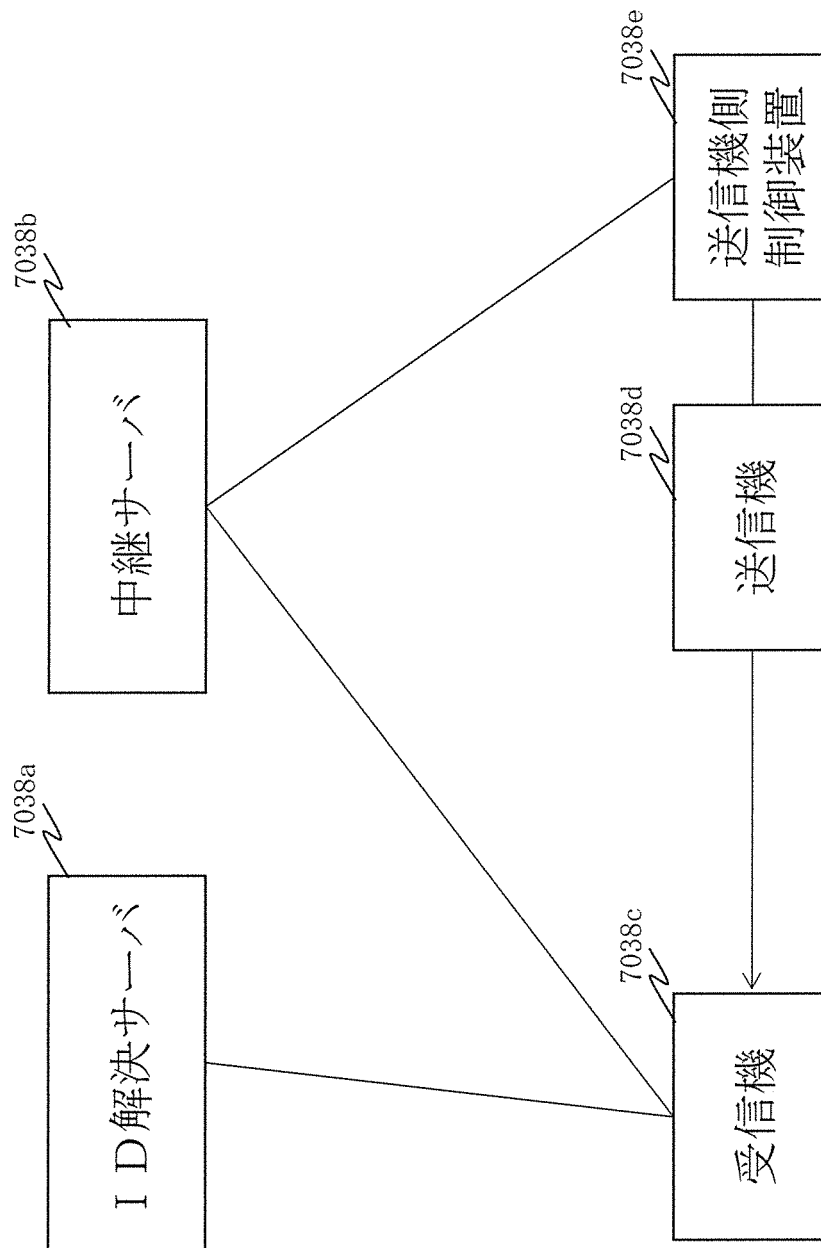
[図272]



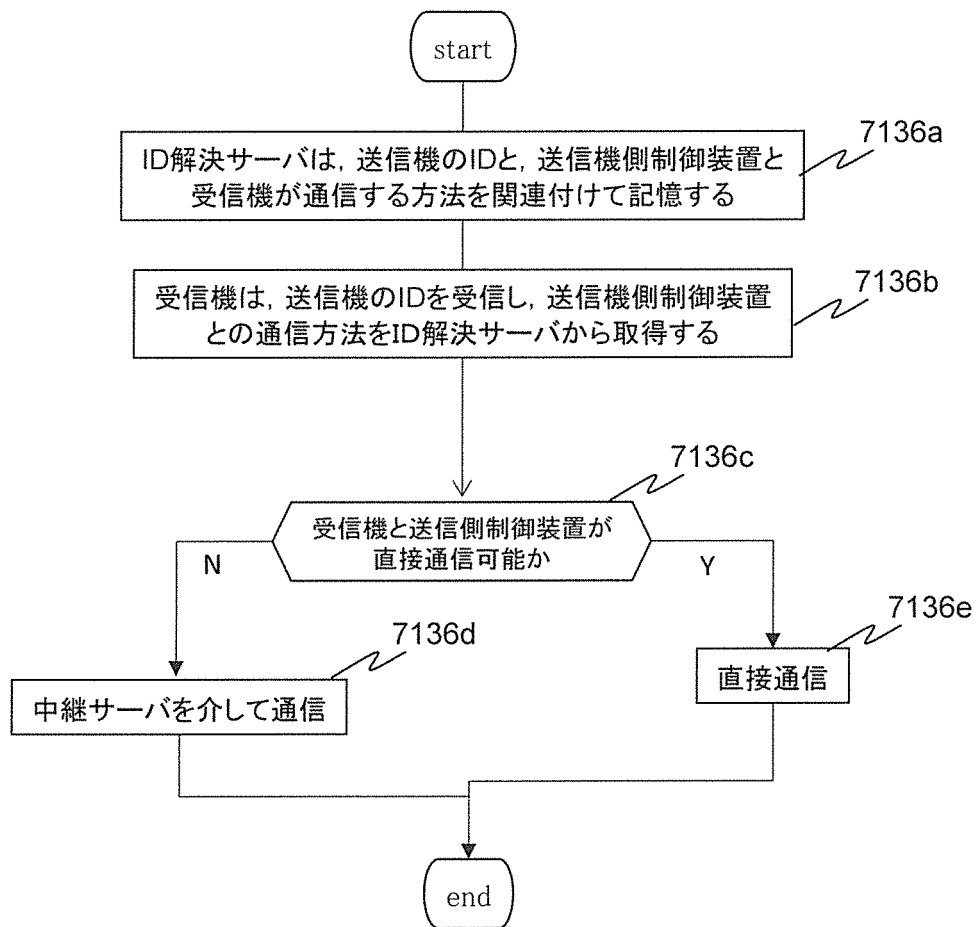
[図273]



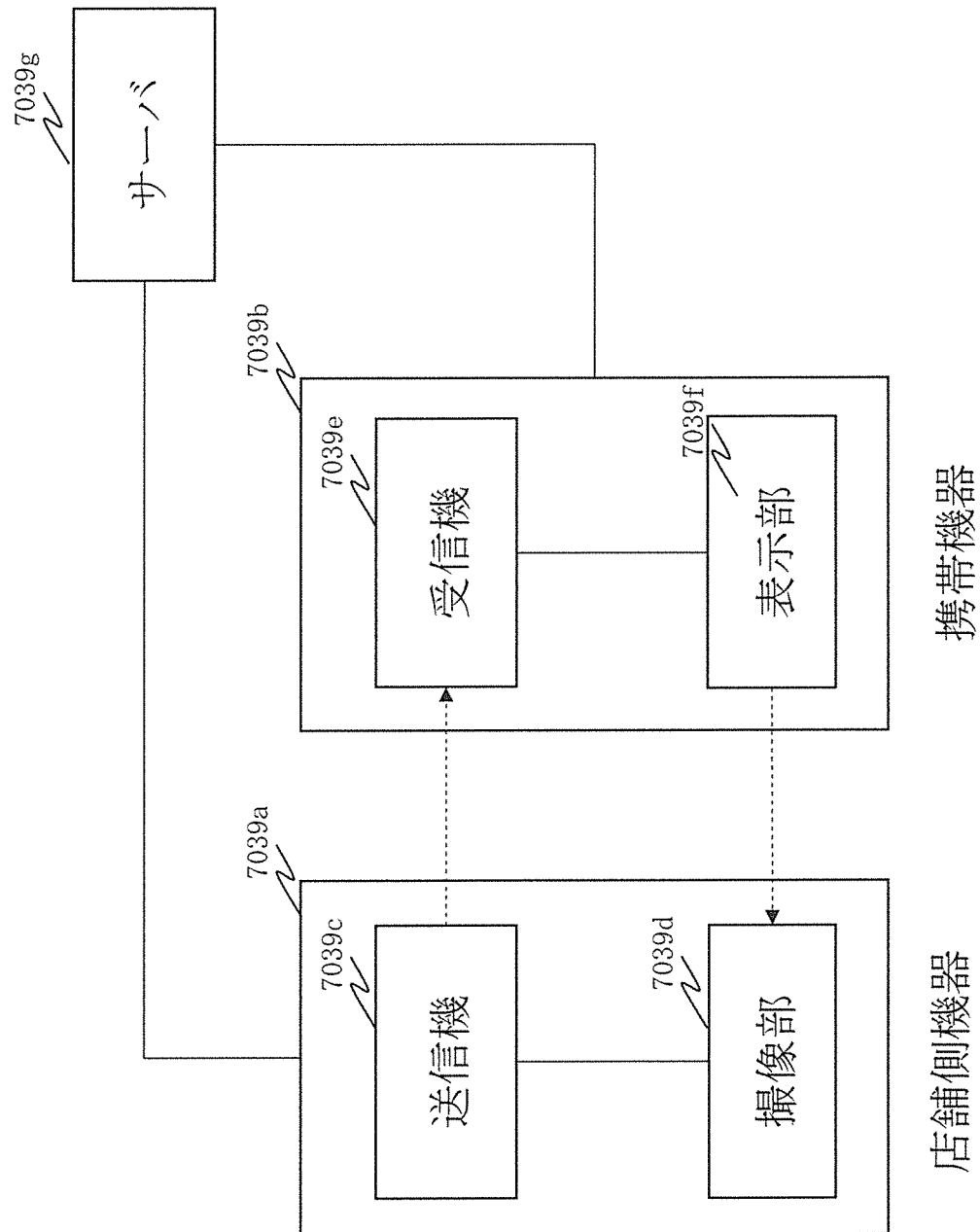
[図274]



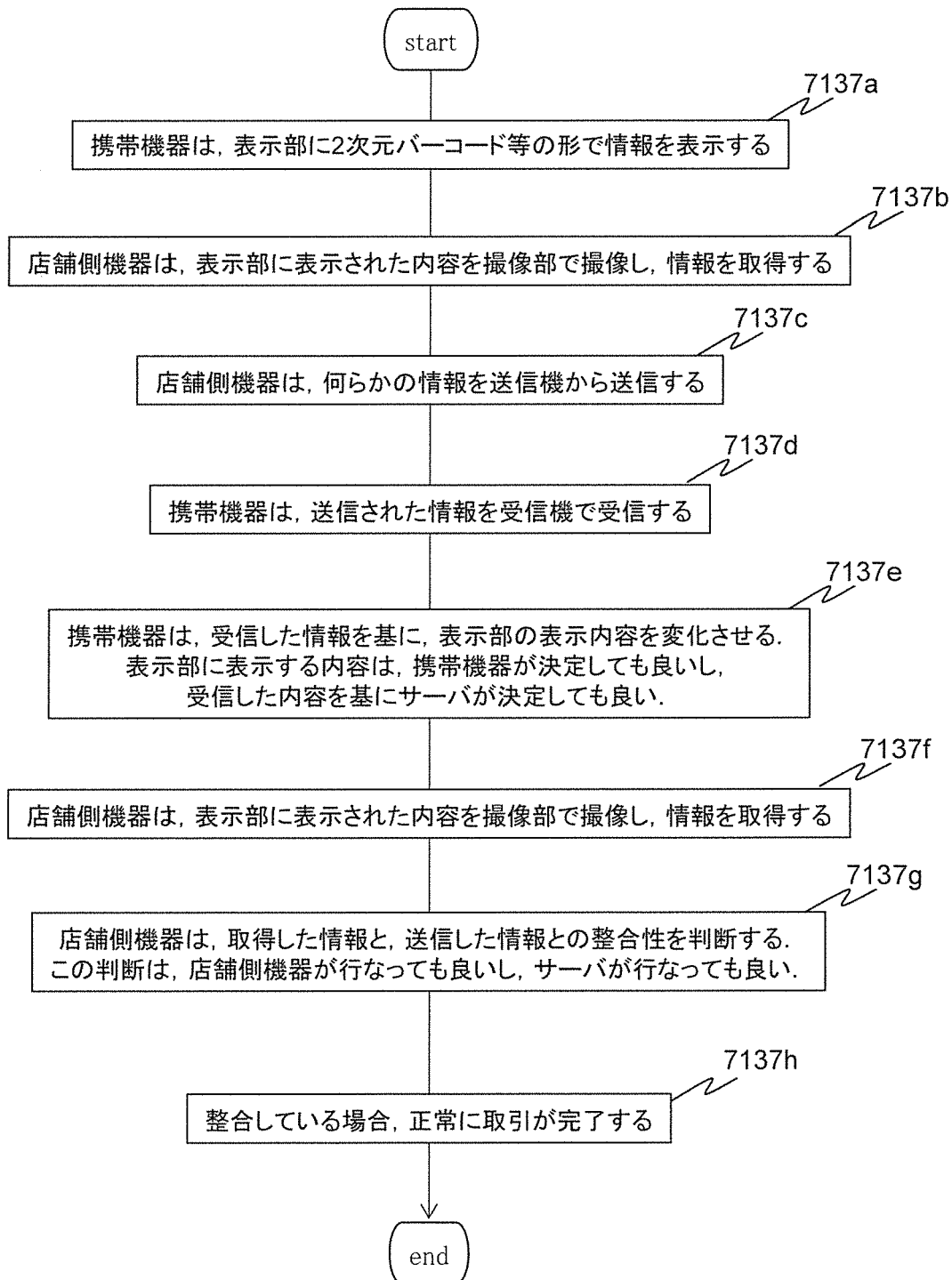
[図275]



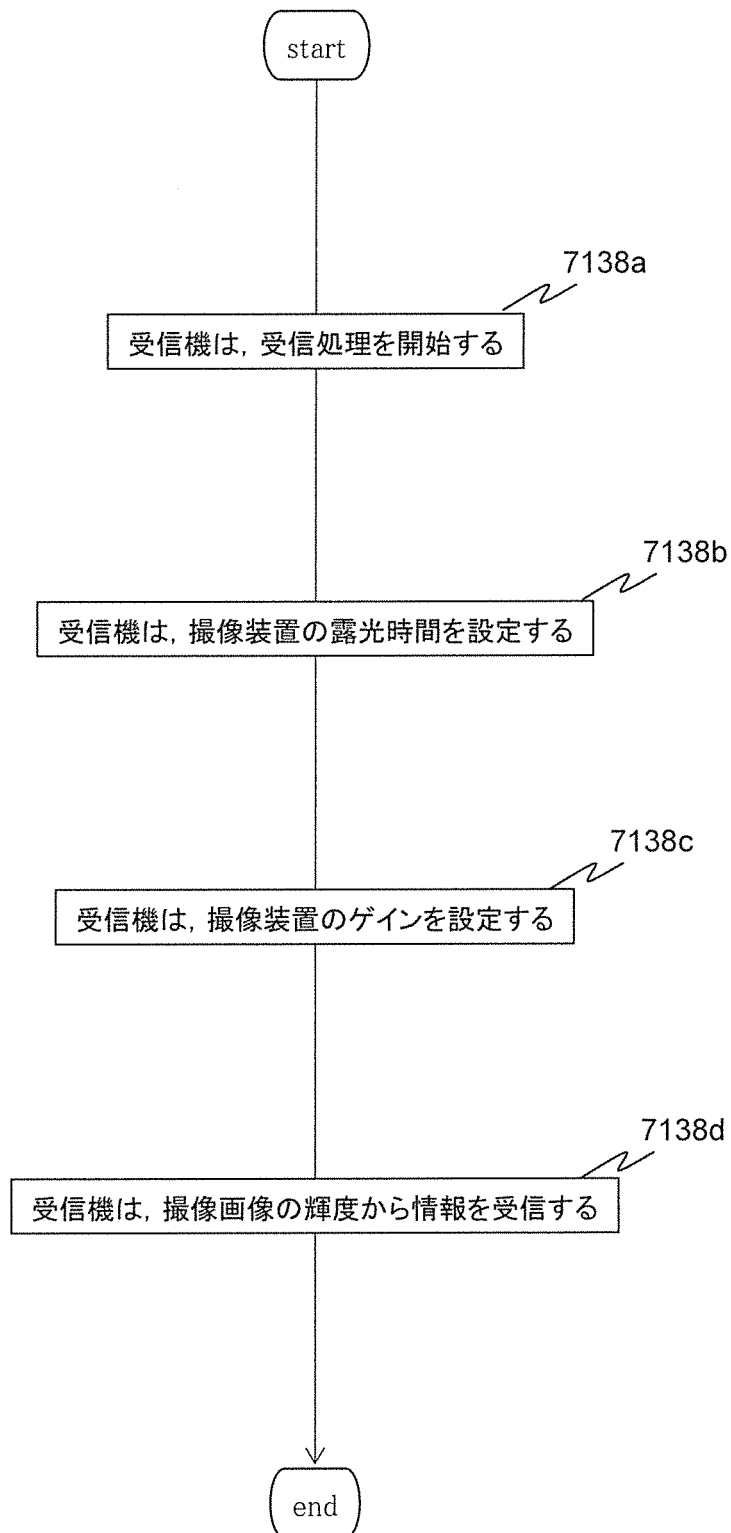
[図276]



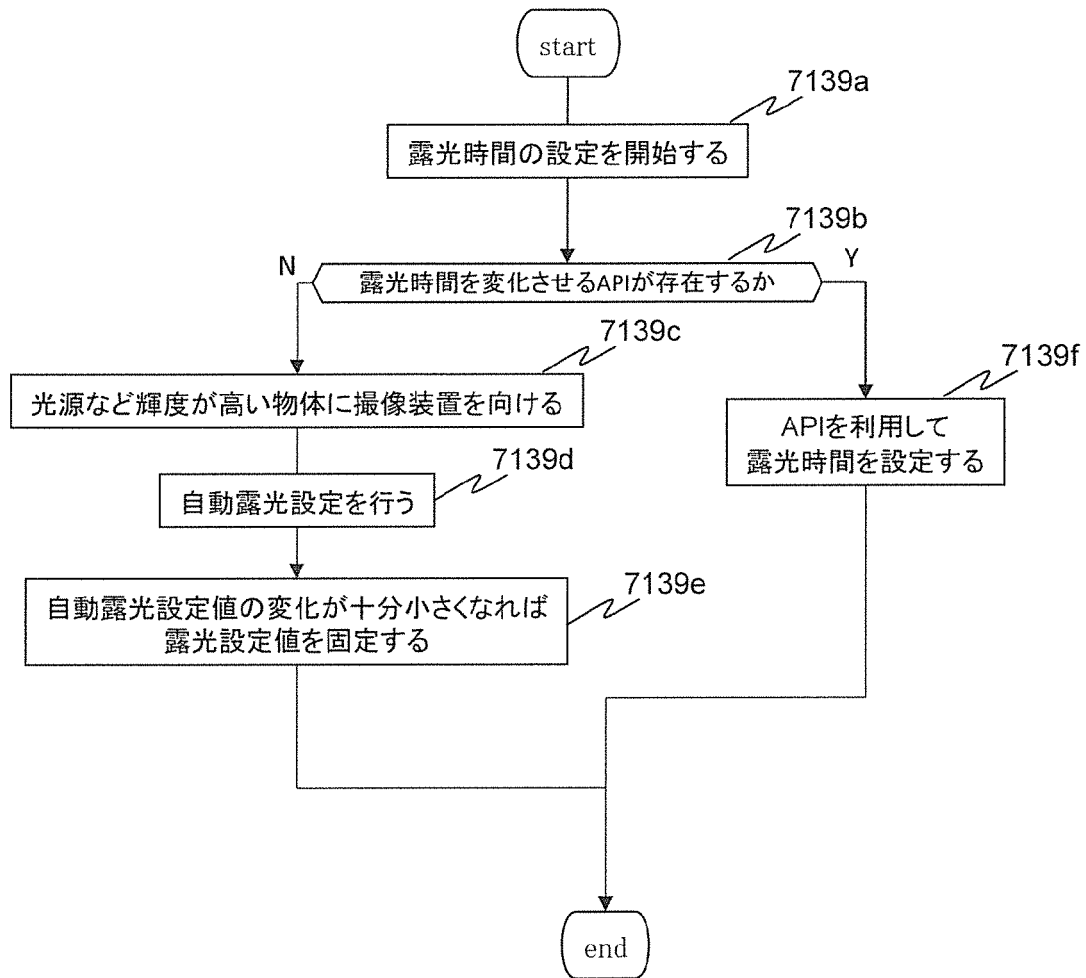
[図277]



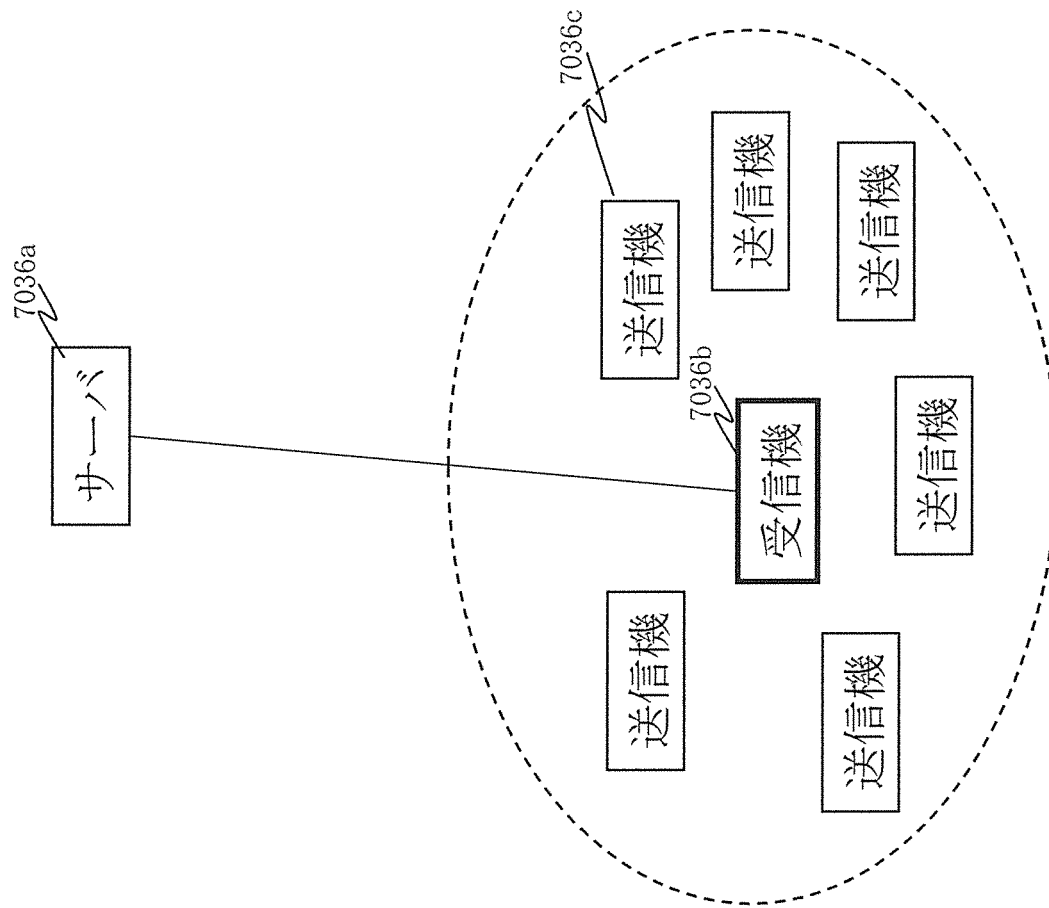
[図278]



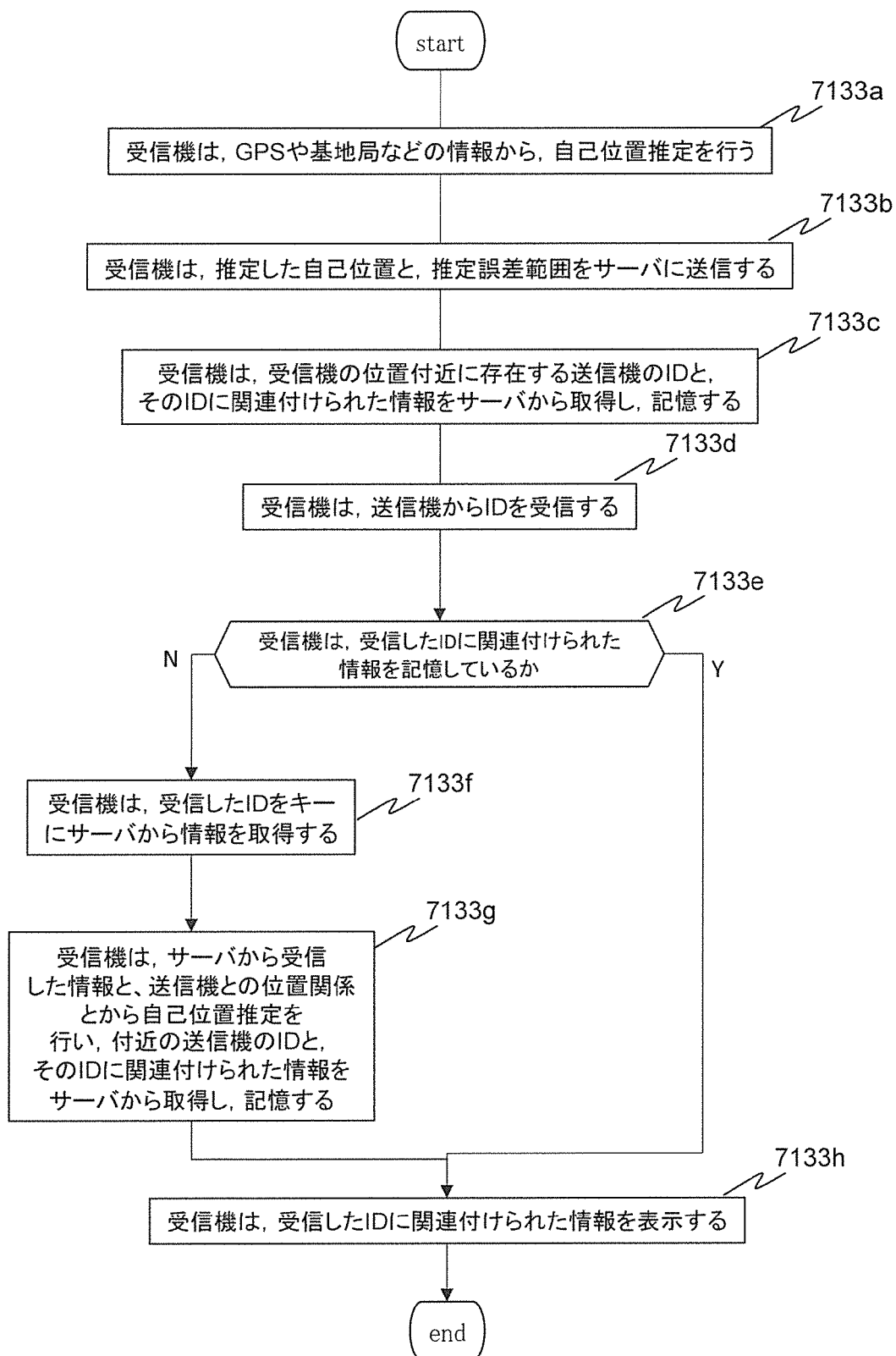
[図279]



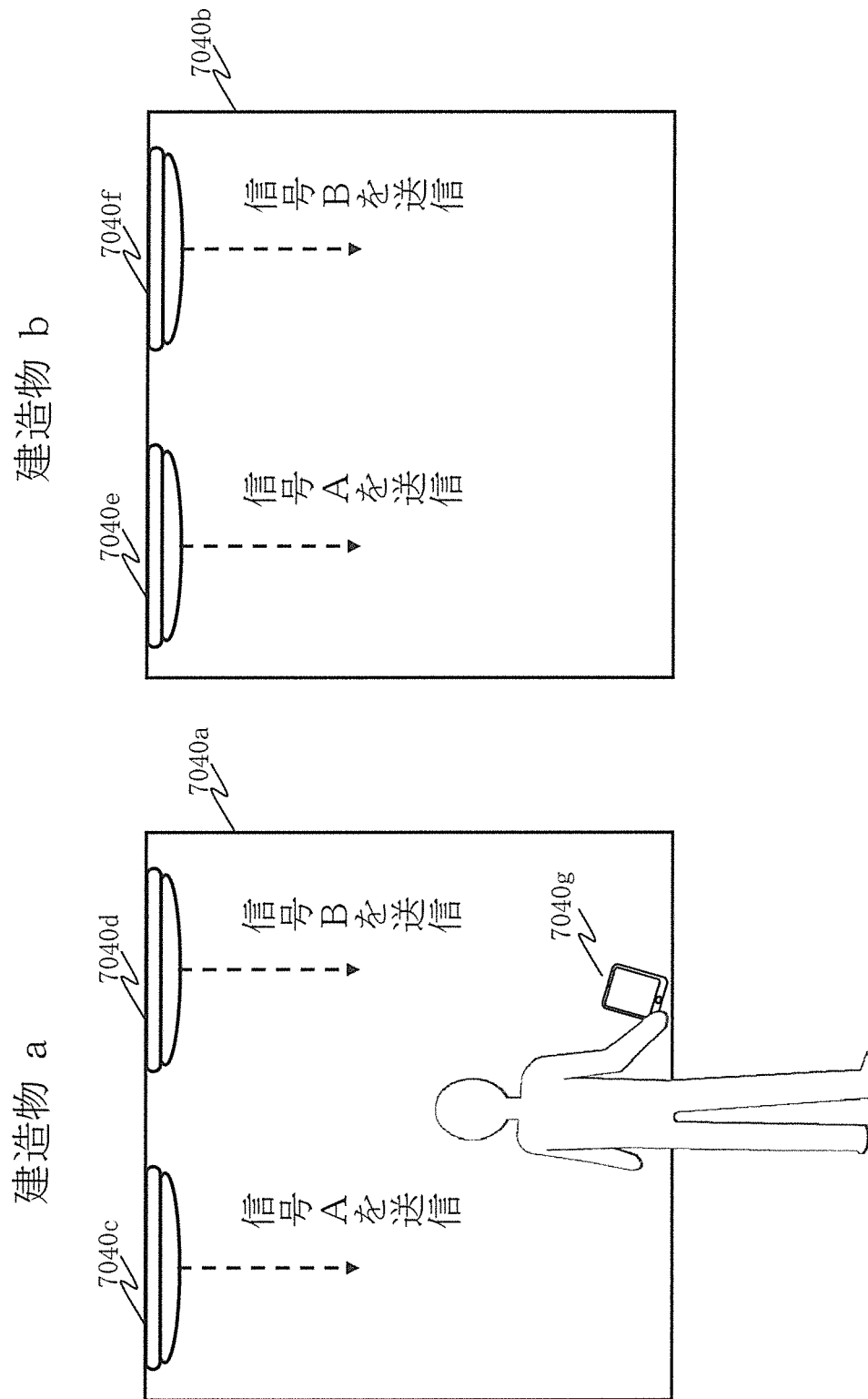
[図280]



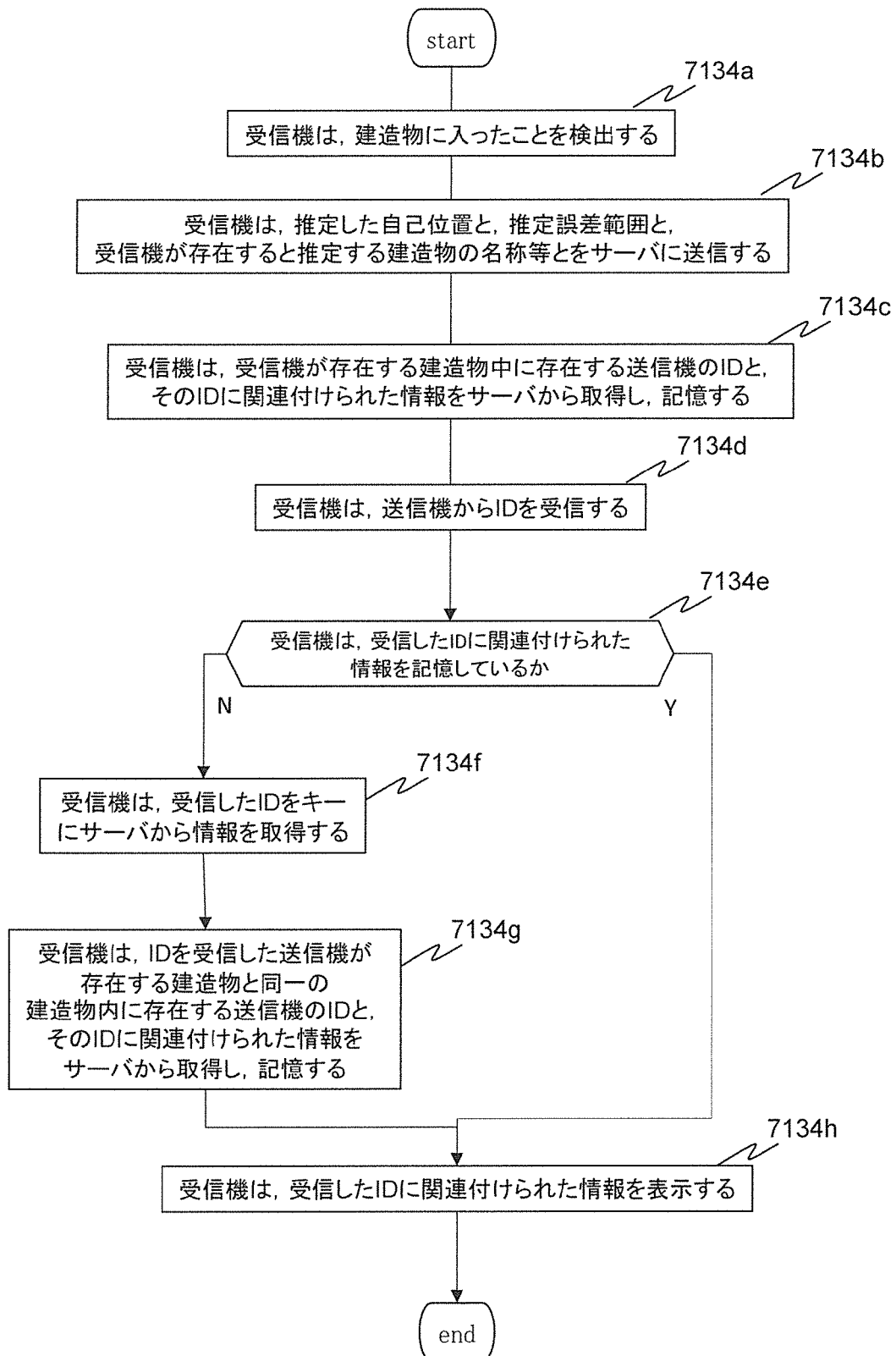
[図281]



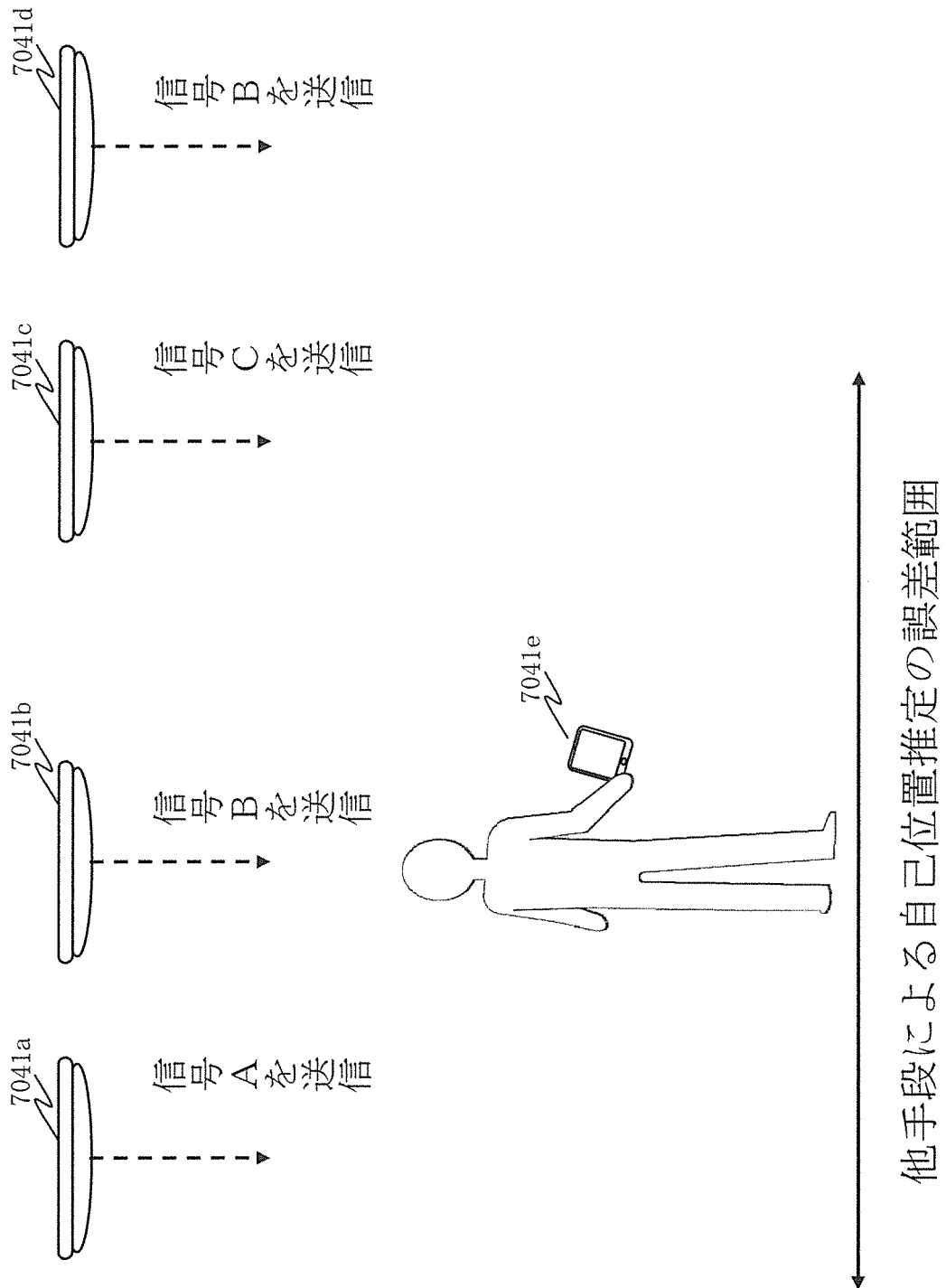
[図282]



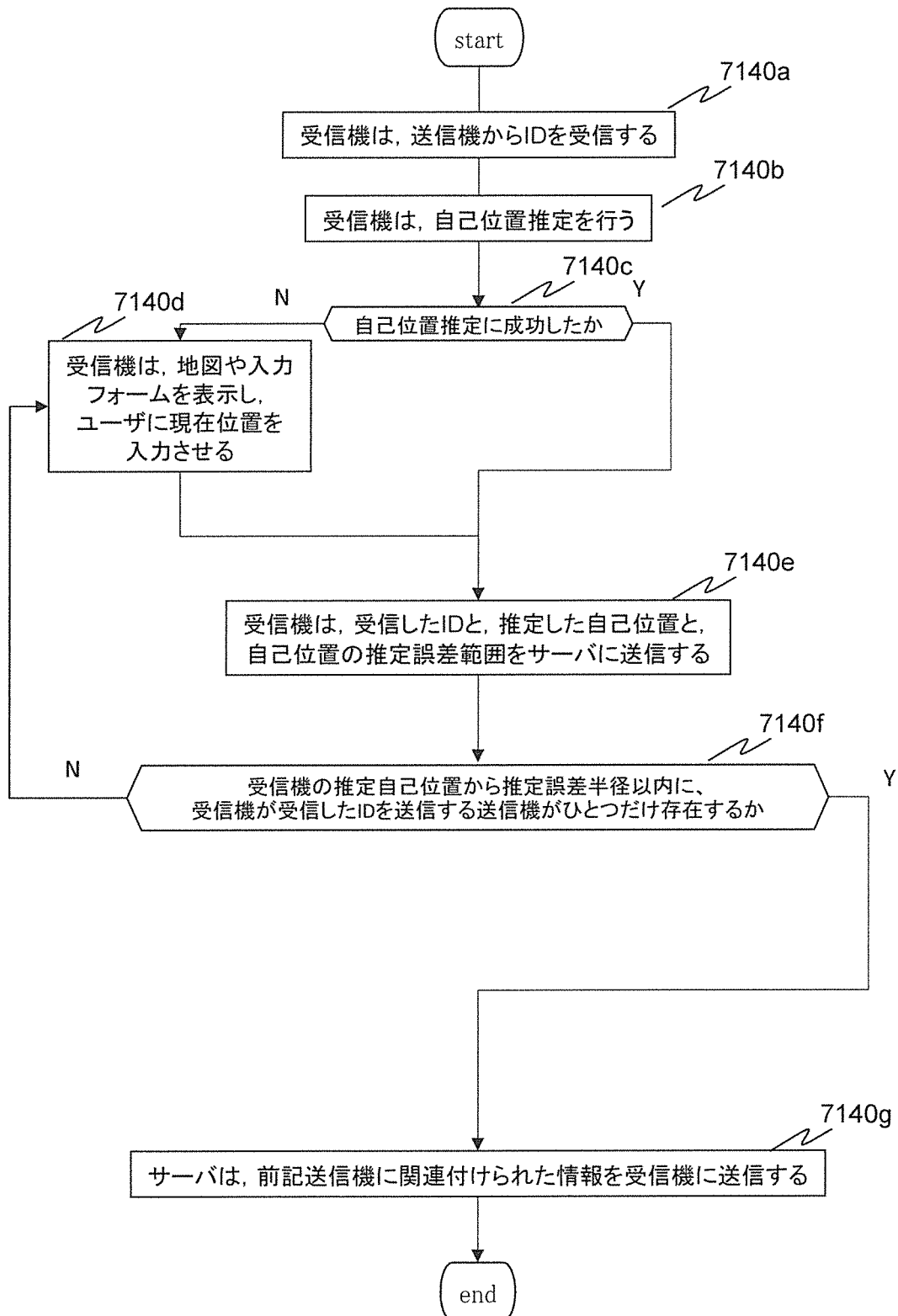
[図283]



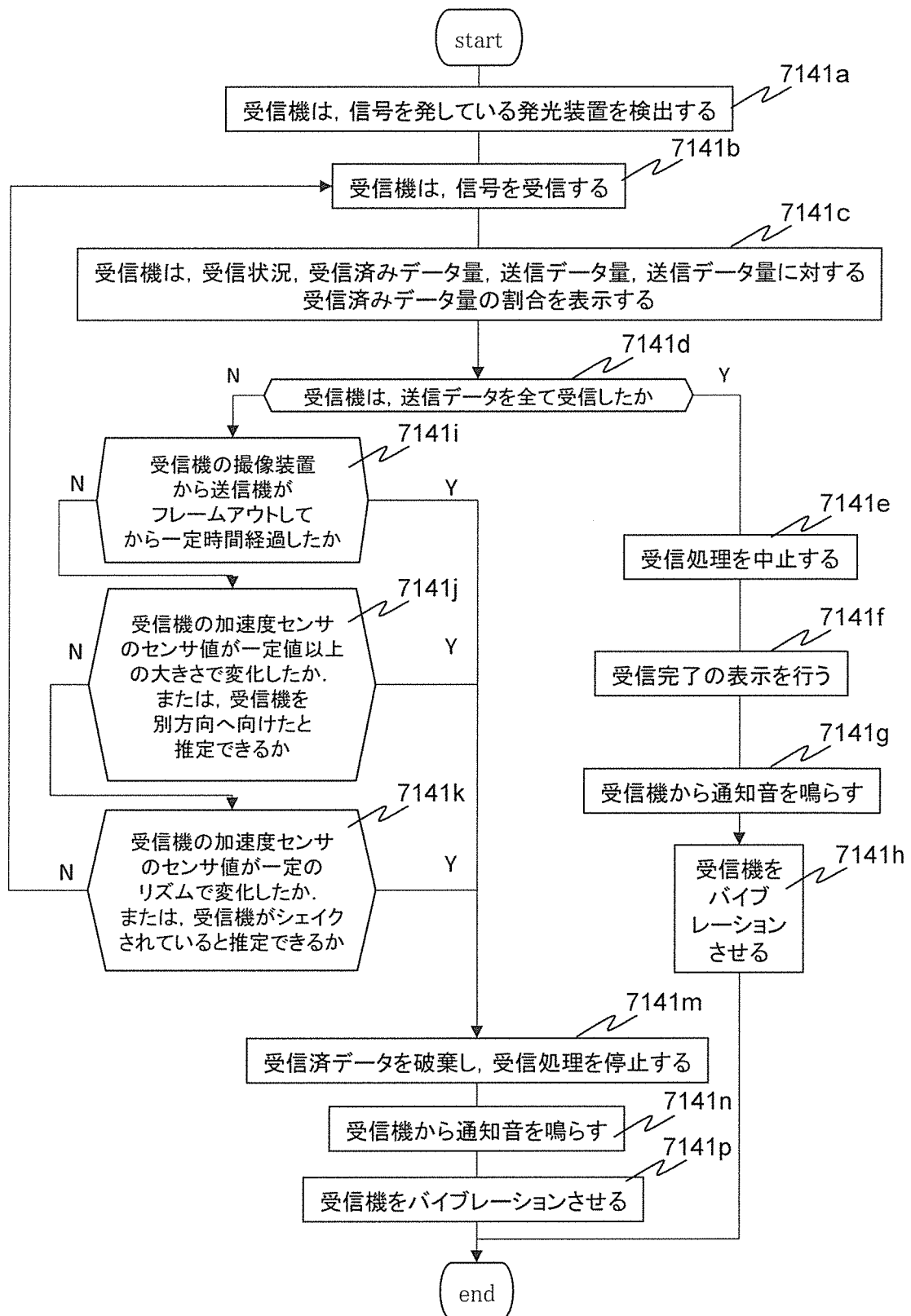
[図284]



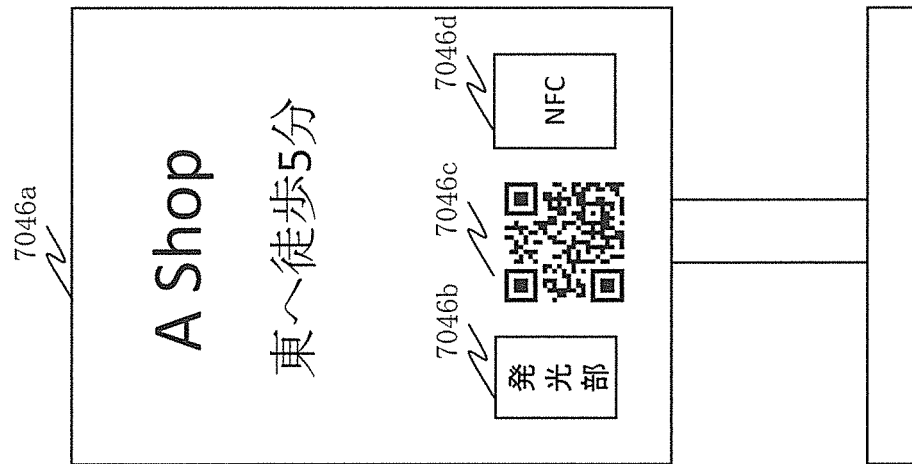
[図285]



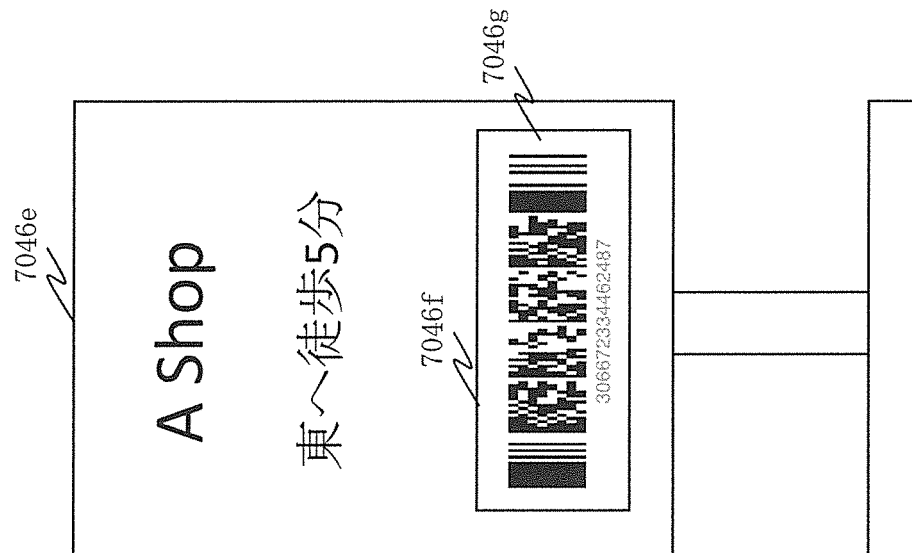
[図286]



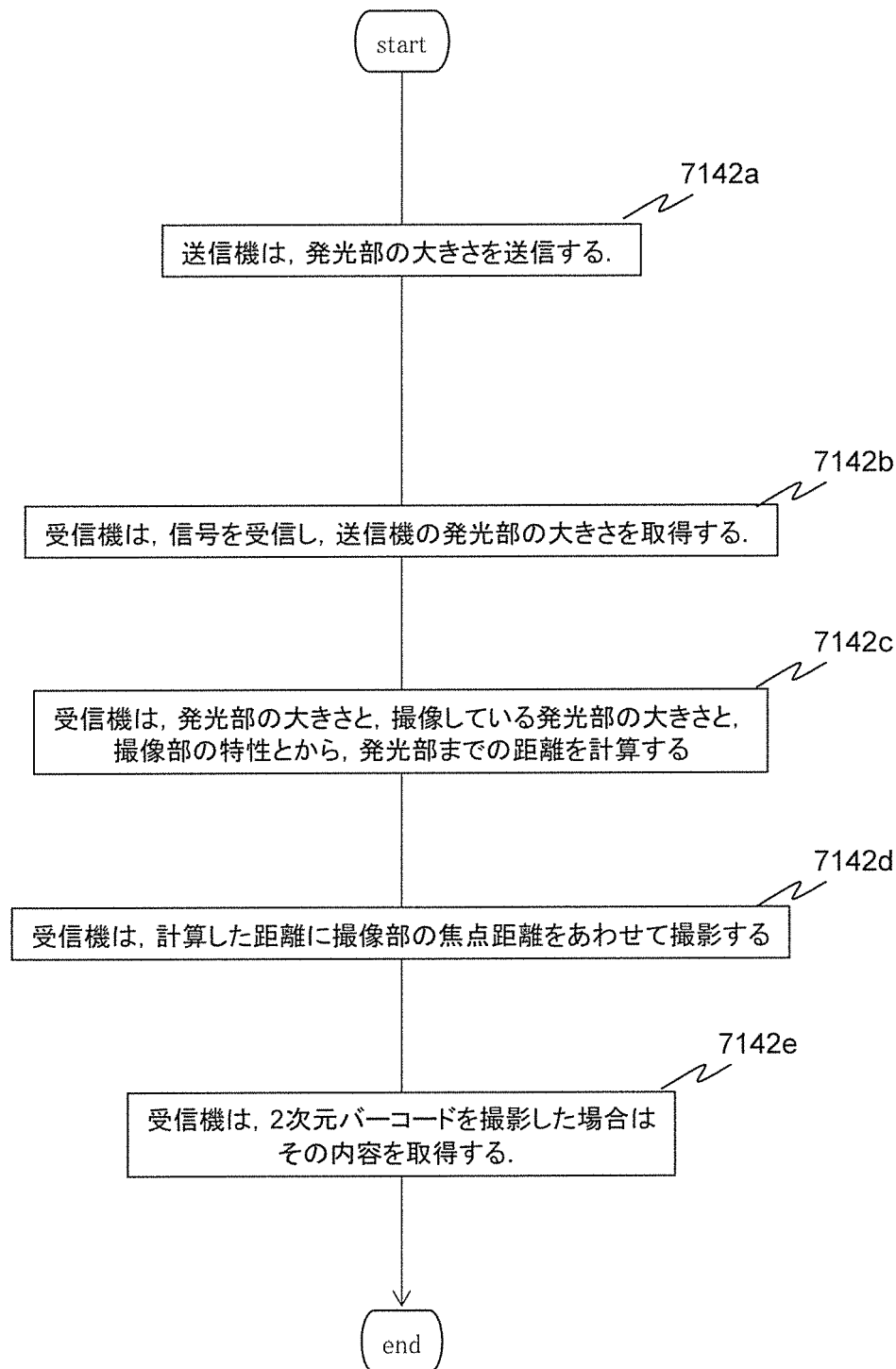
[図287A]



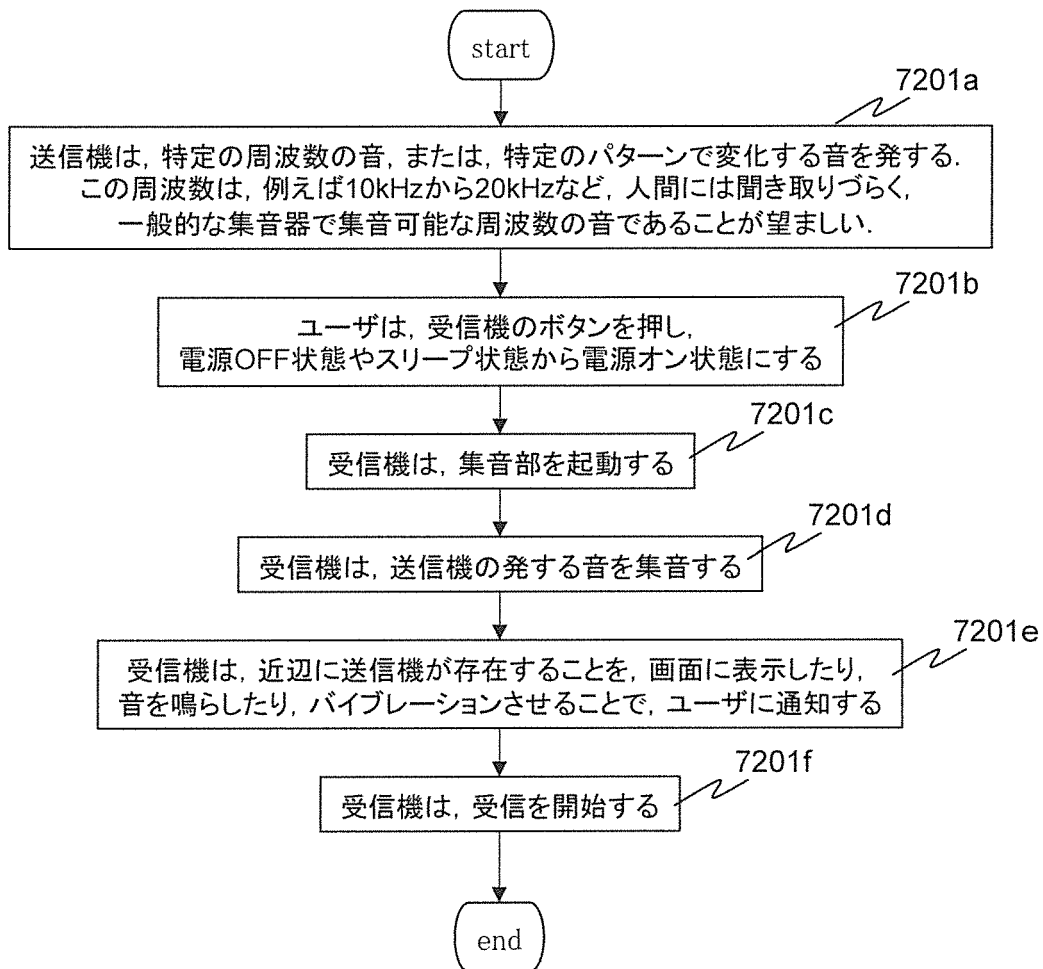
[図287B]



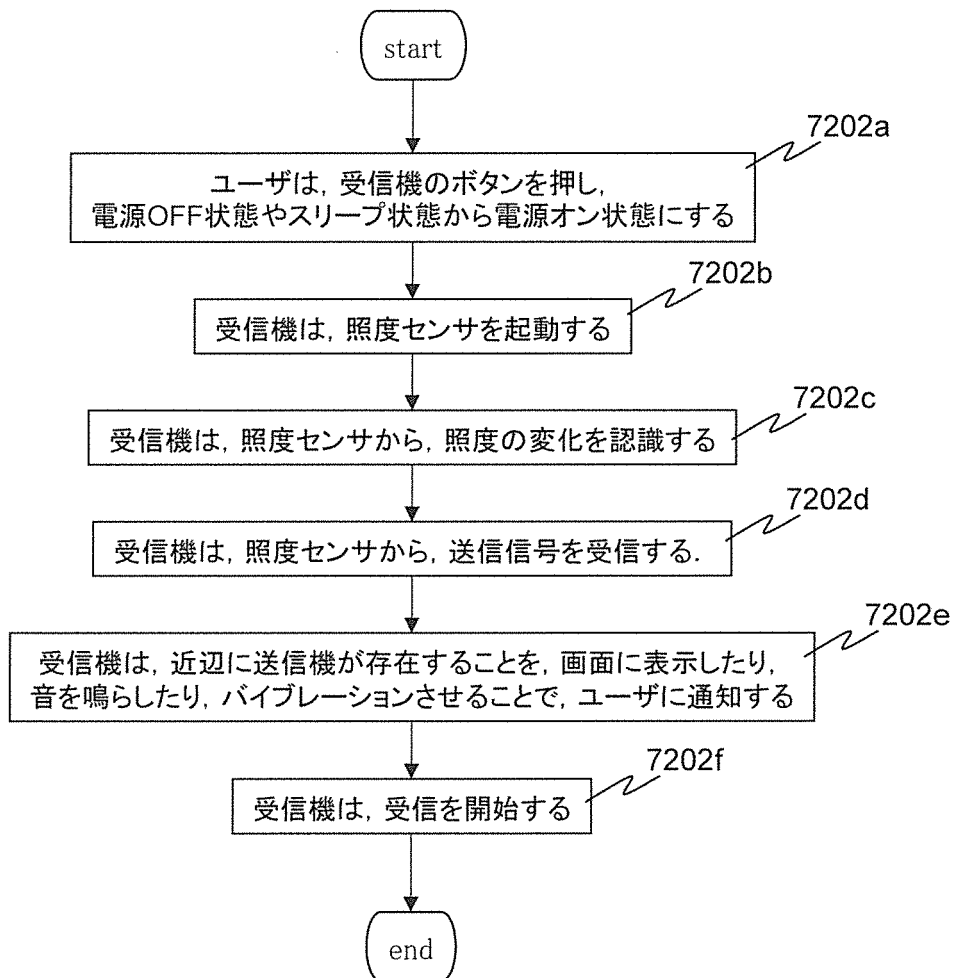
[図288]



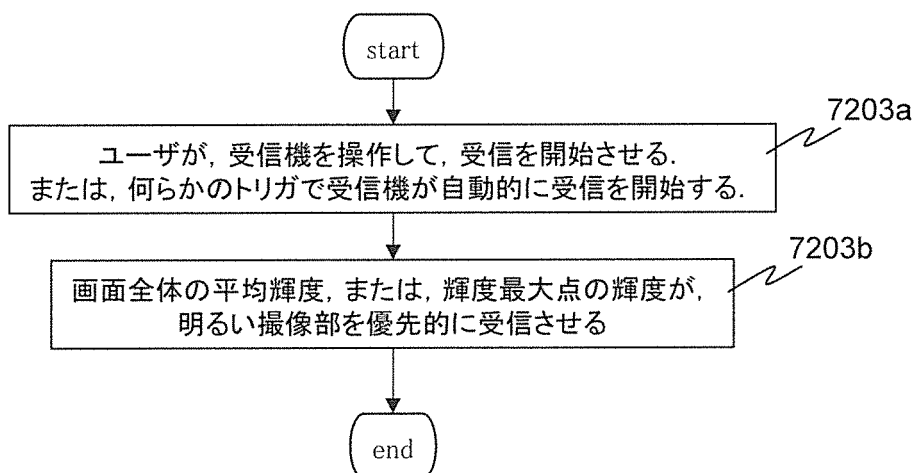
[図289]



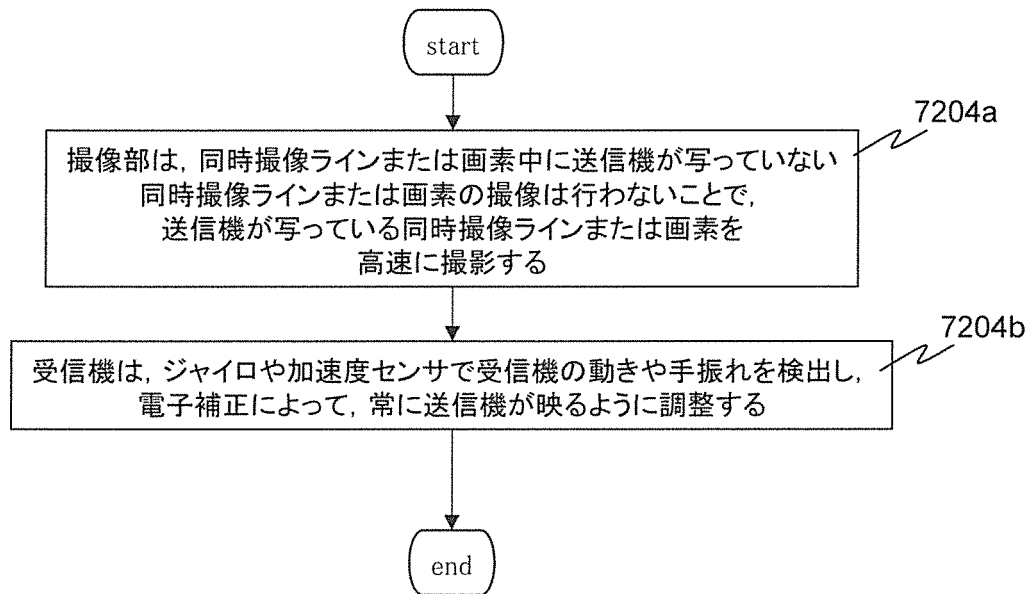
[図290]



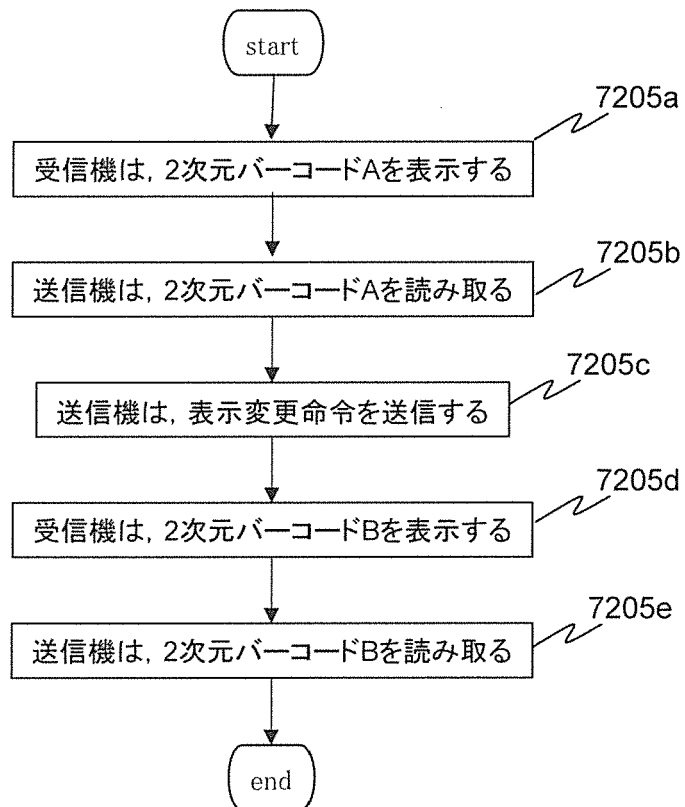
[図291]



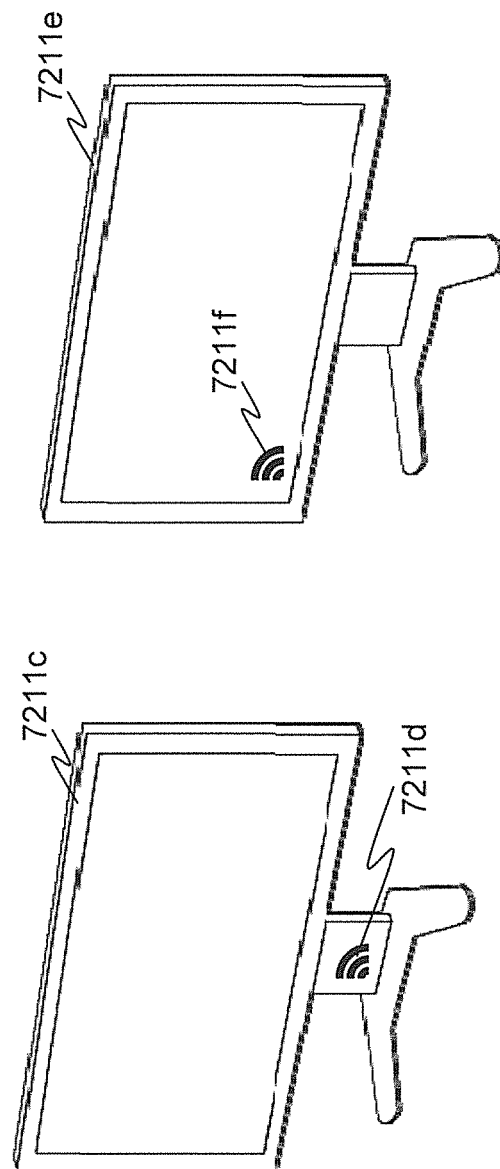
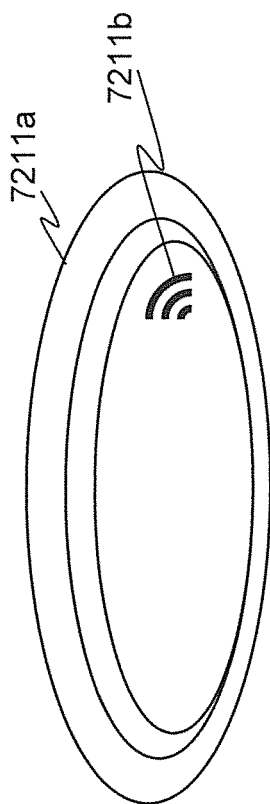
[図292]



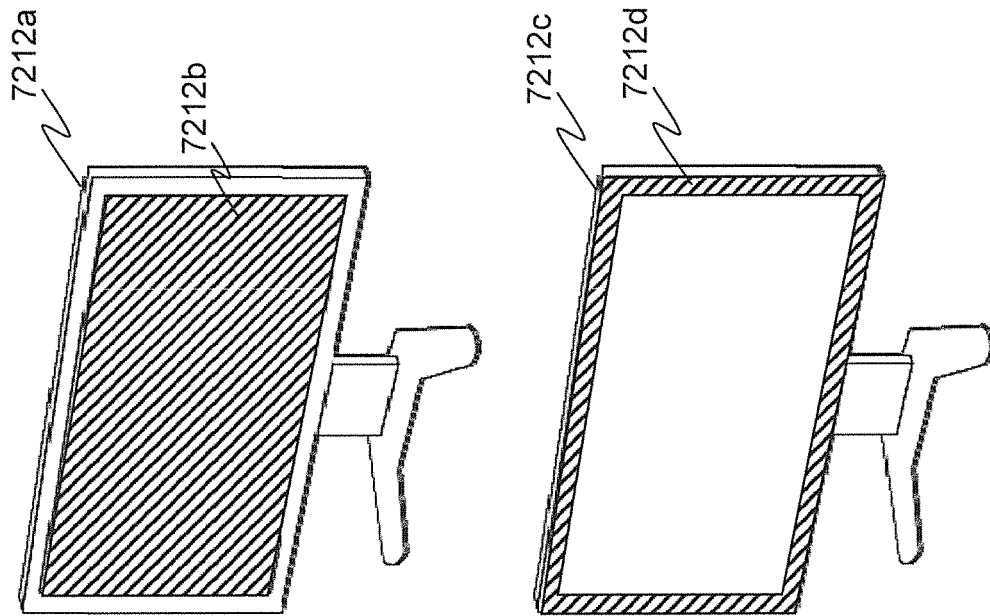
[図293]



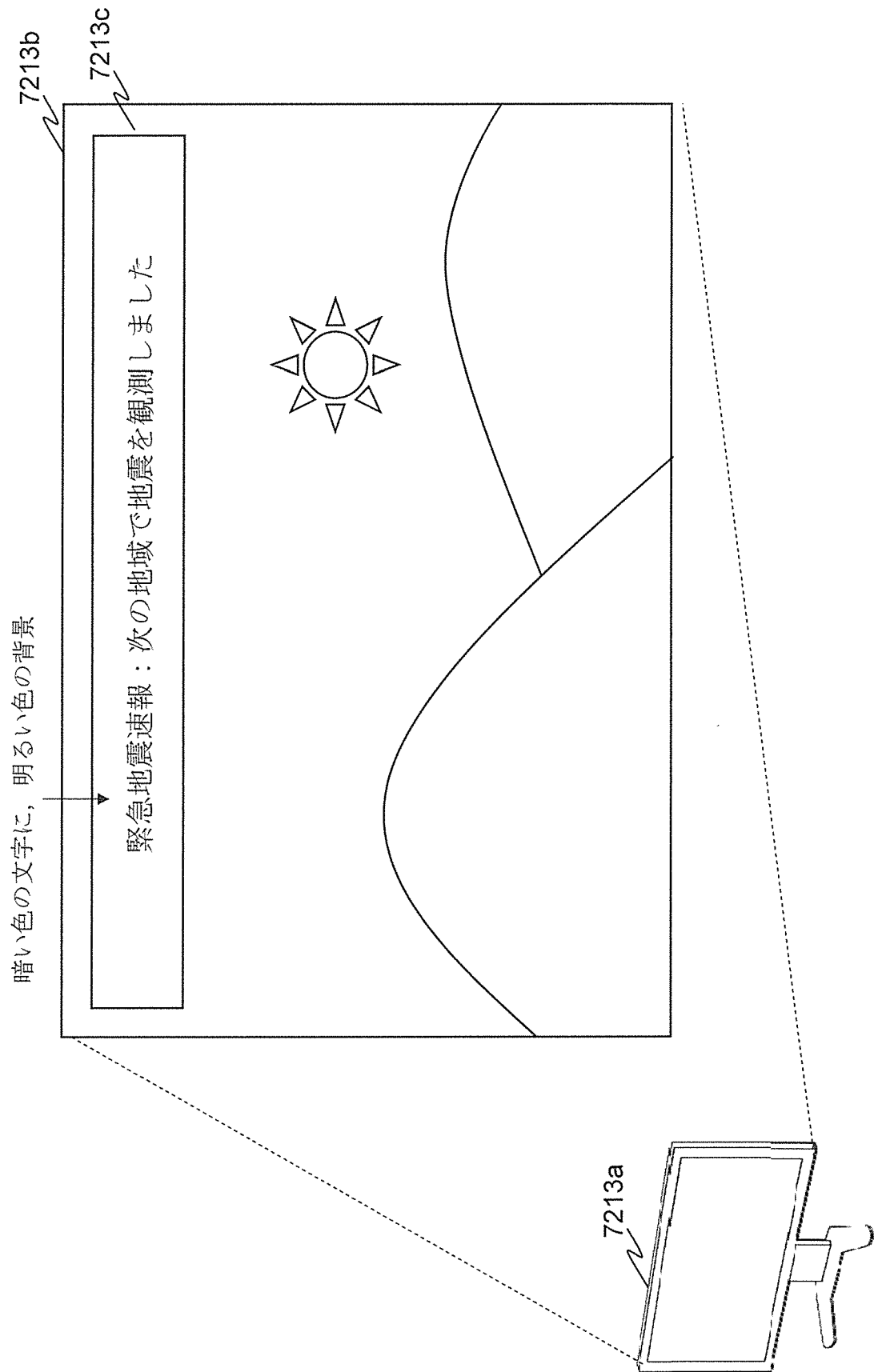
[図294]



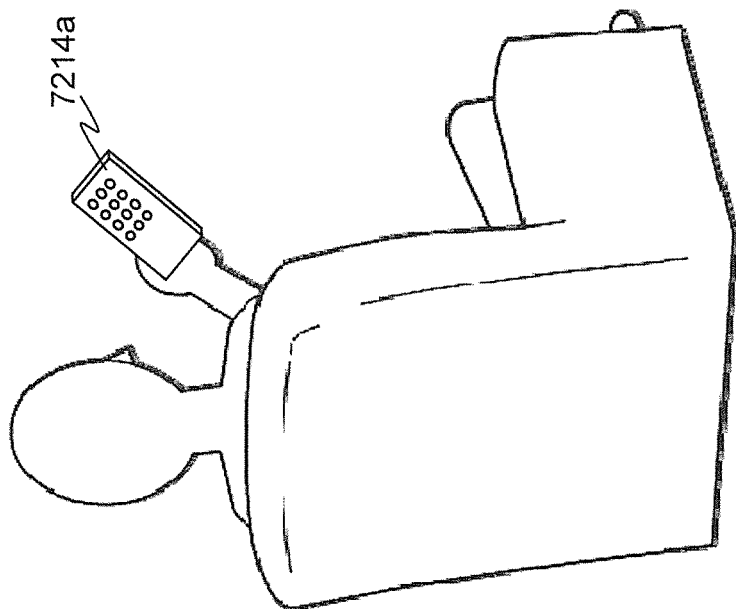
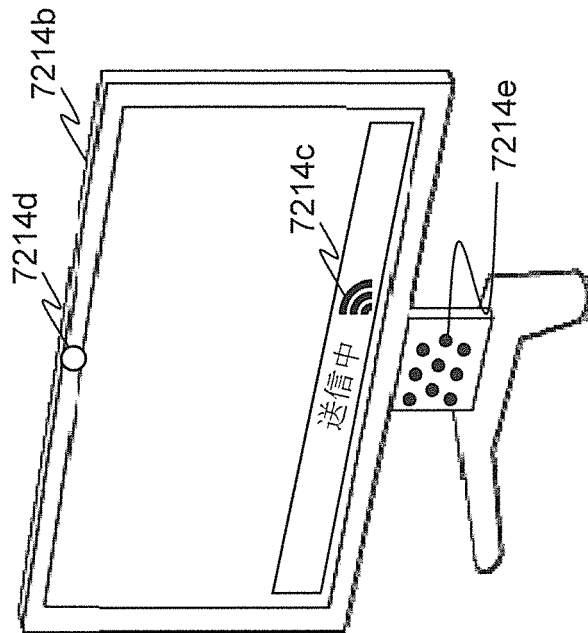
[図295]



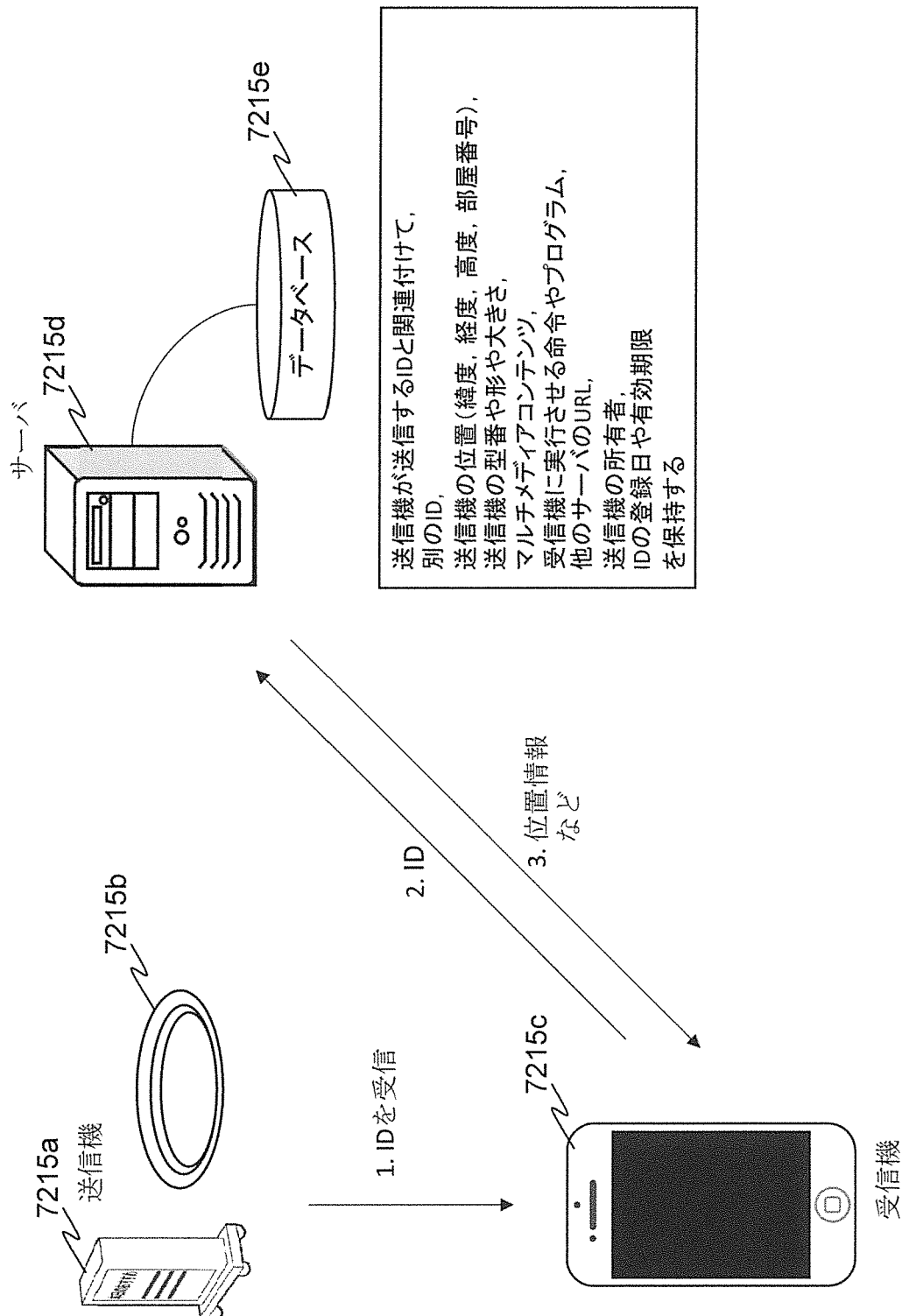
[図296]



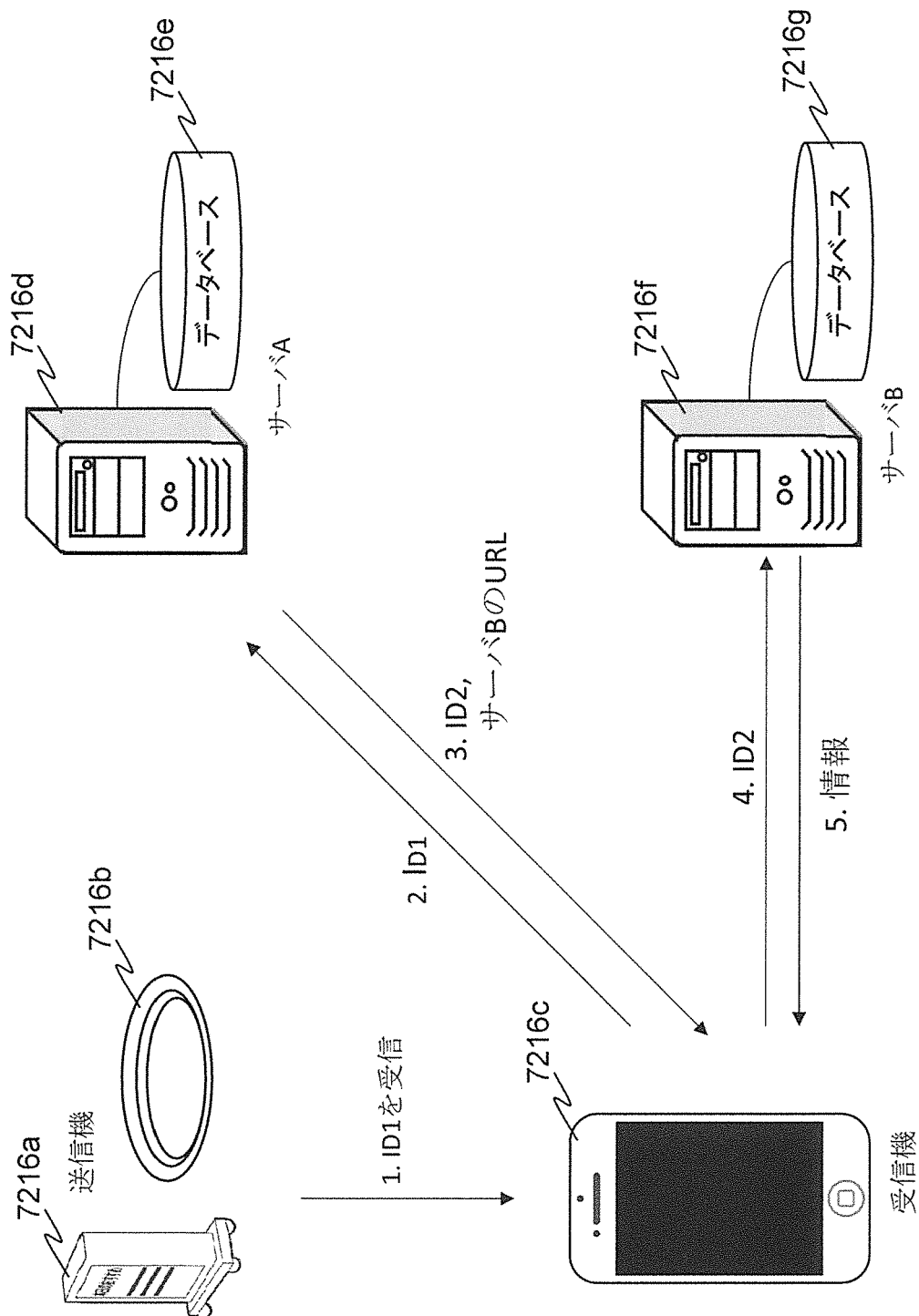
[図297]



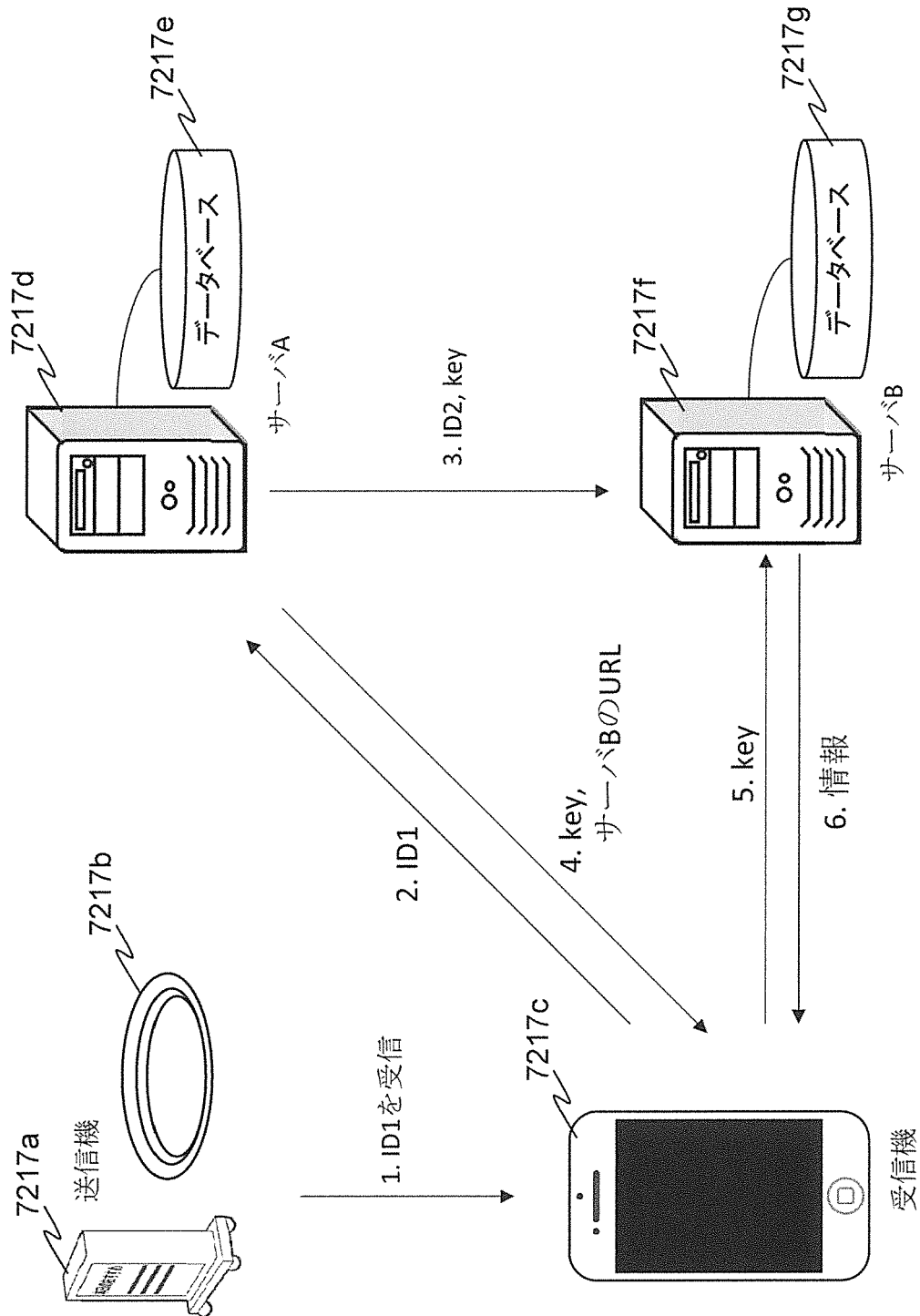
[図298]

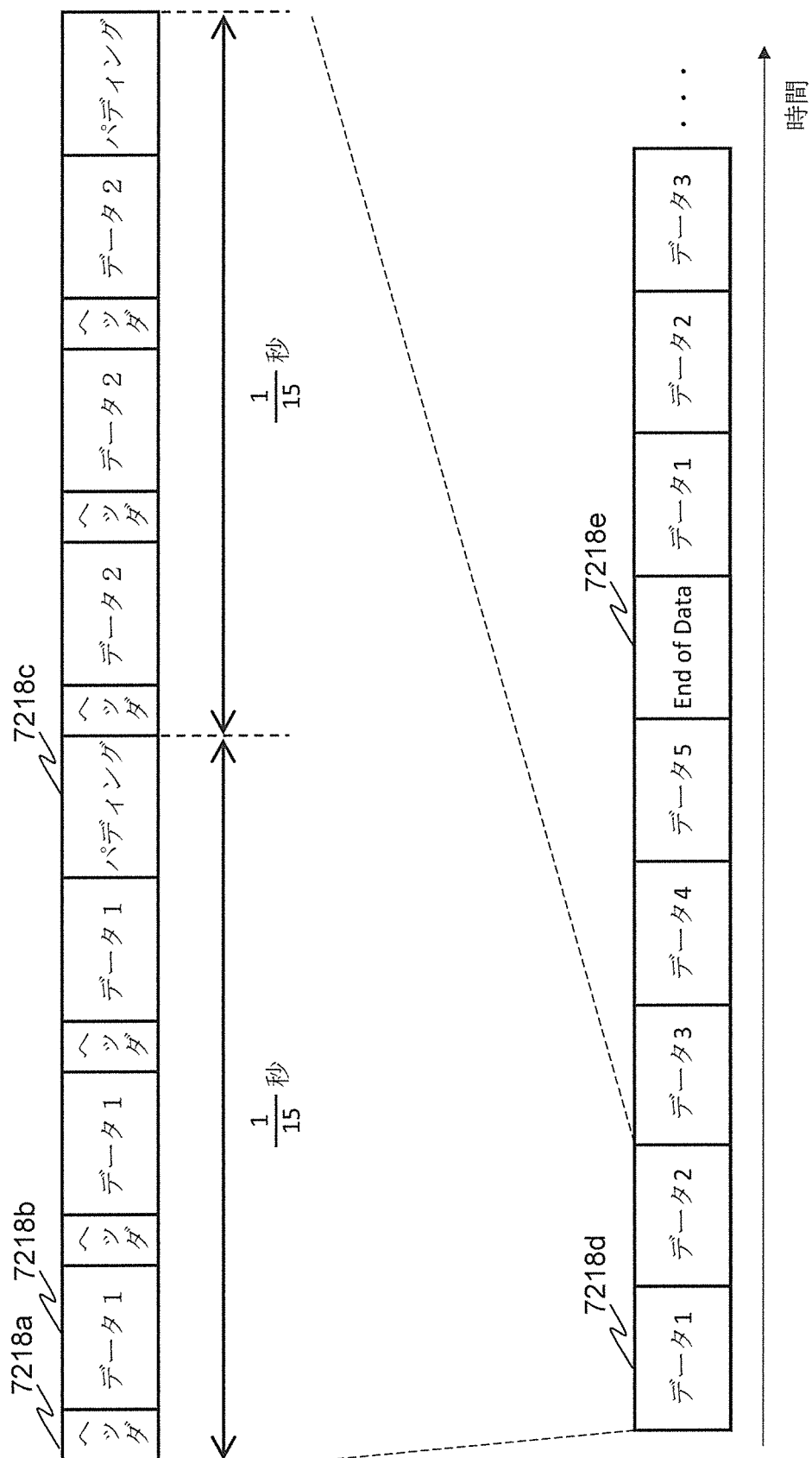


[図299]

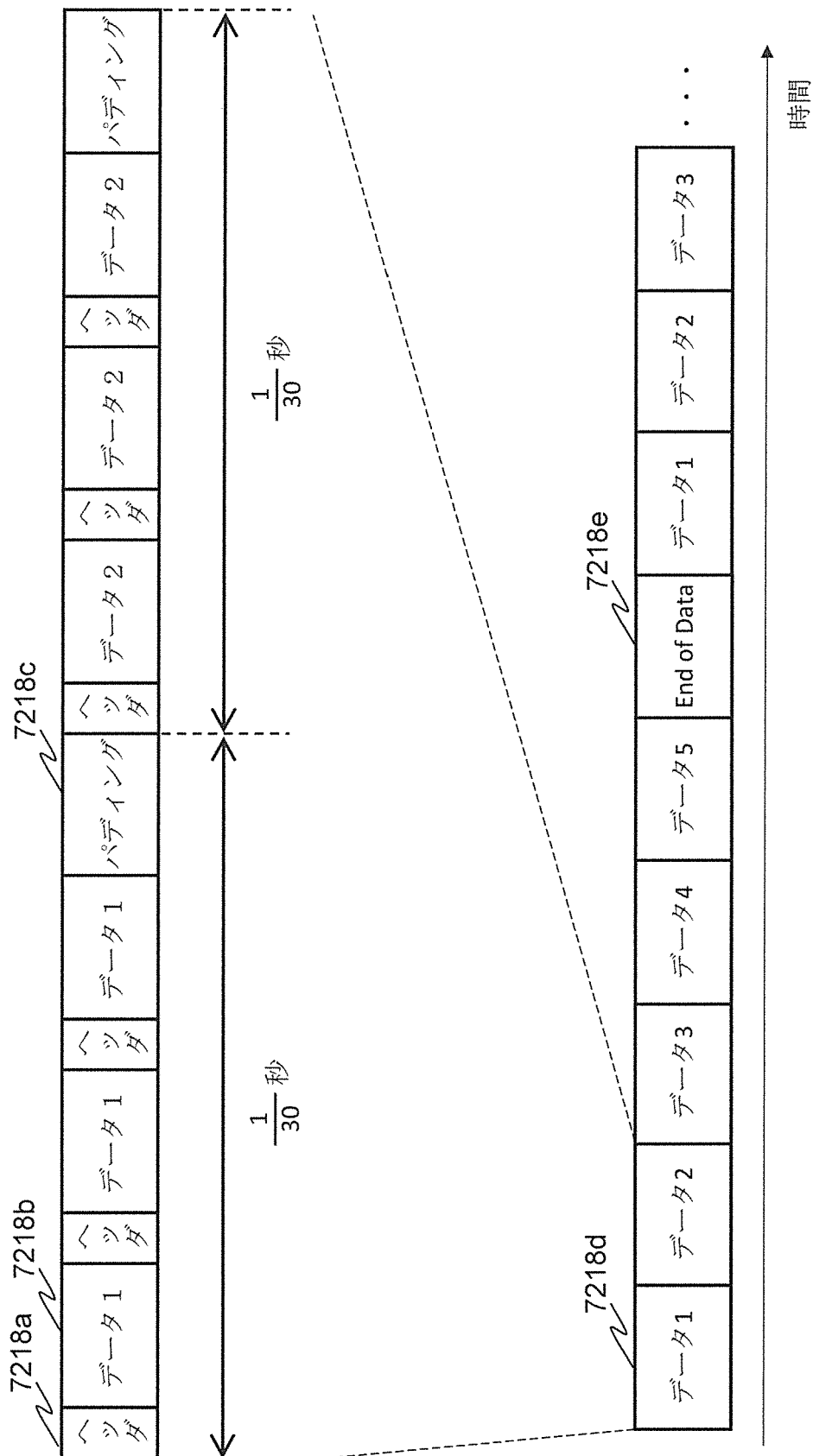


[図300]





[図301B]

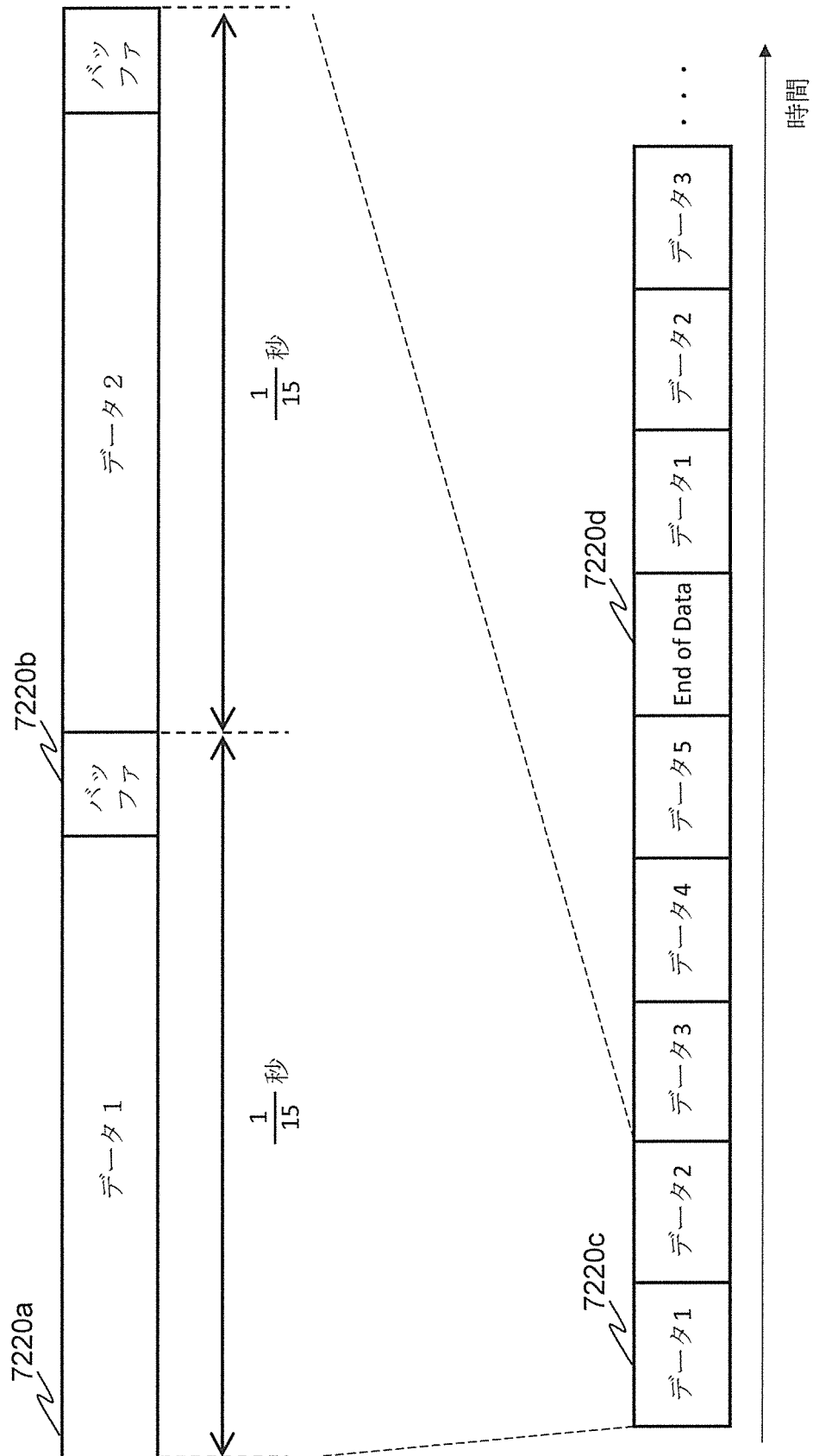


[図302]

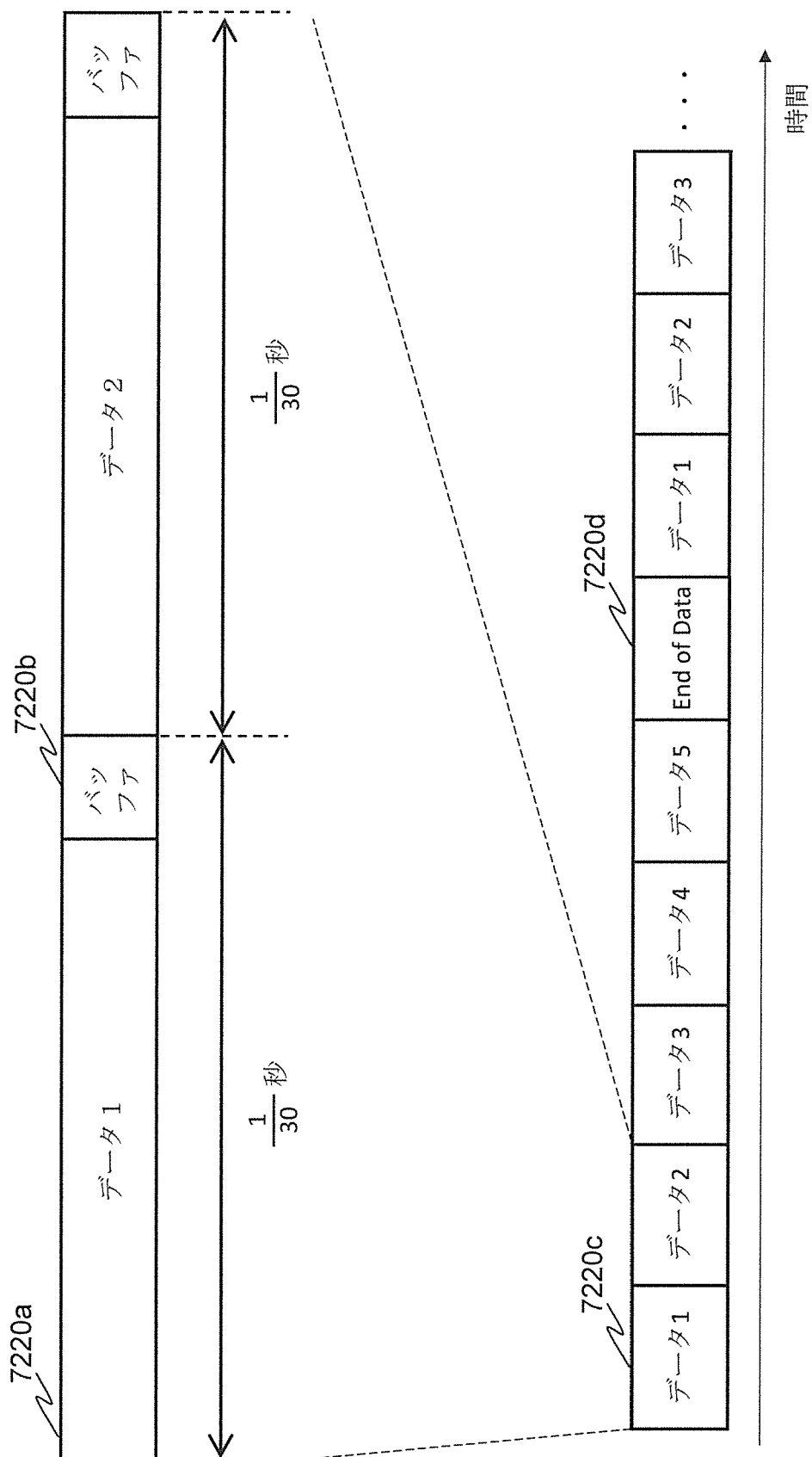
7219a

送信する信号	変調後の信号
00 (0)	01111
01 (1)	10111
10 (2)	11011
11 (3)	11101
ヘッダ	11110

[図303A]



[図303B]

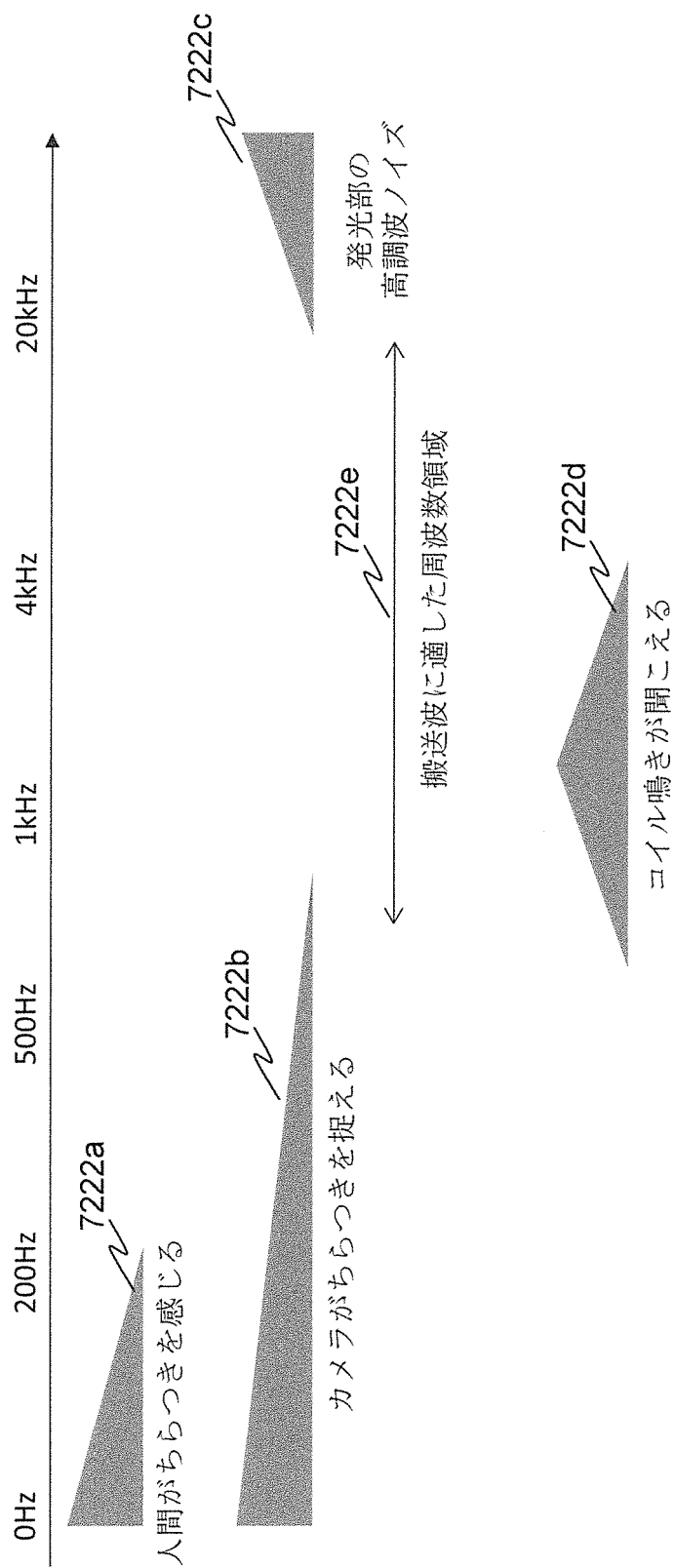


[図304]

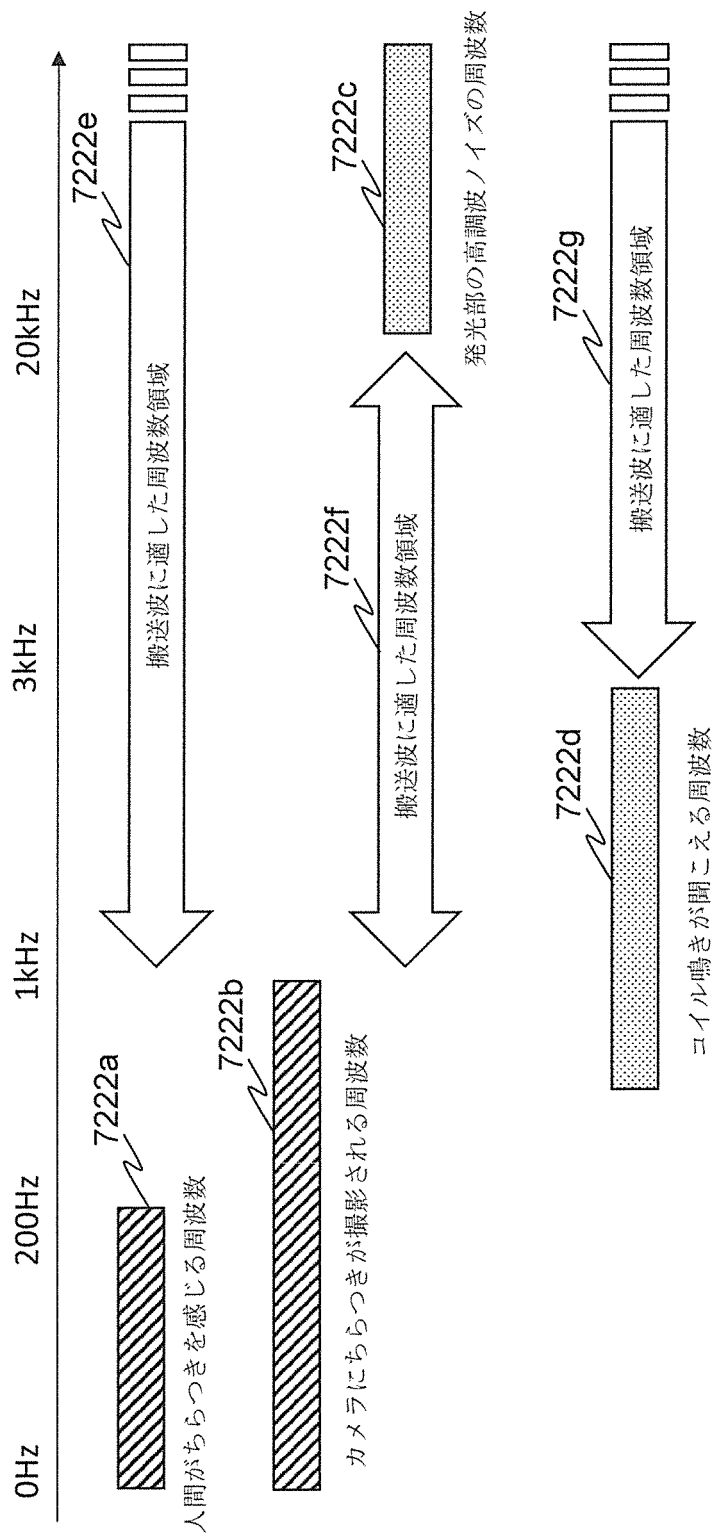
7221a

送信する信号	変調周波数
00 (0)	500Hz
01 (1)	1000Hz
10 (2)	2000Hz
11 (3)	5000Hz

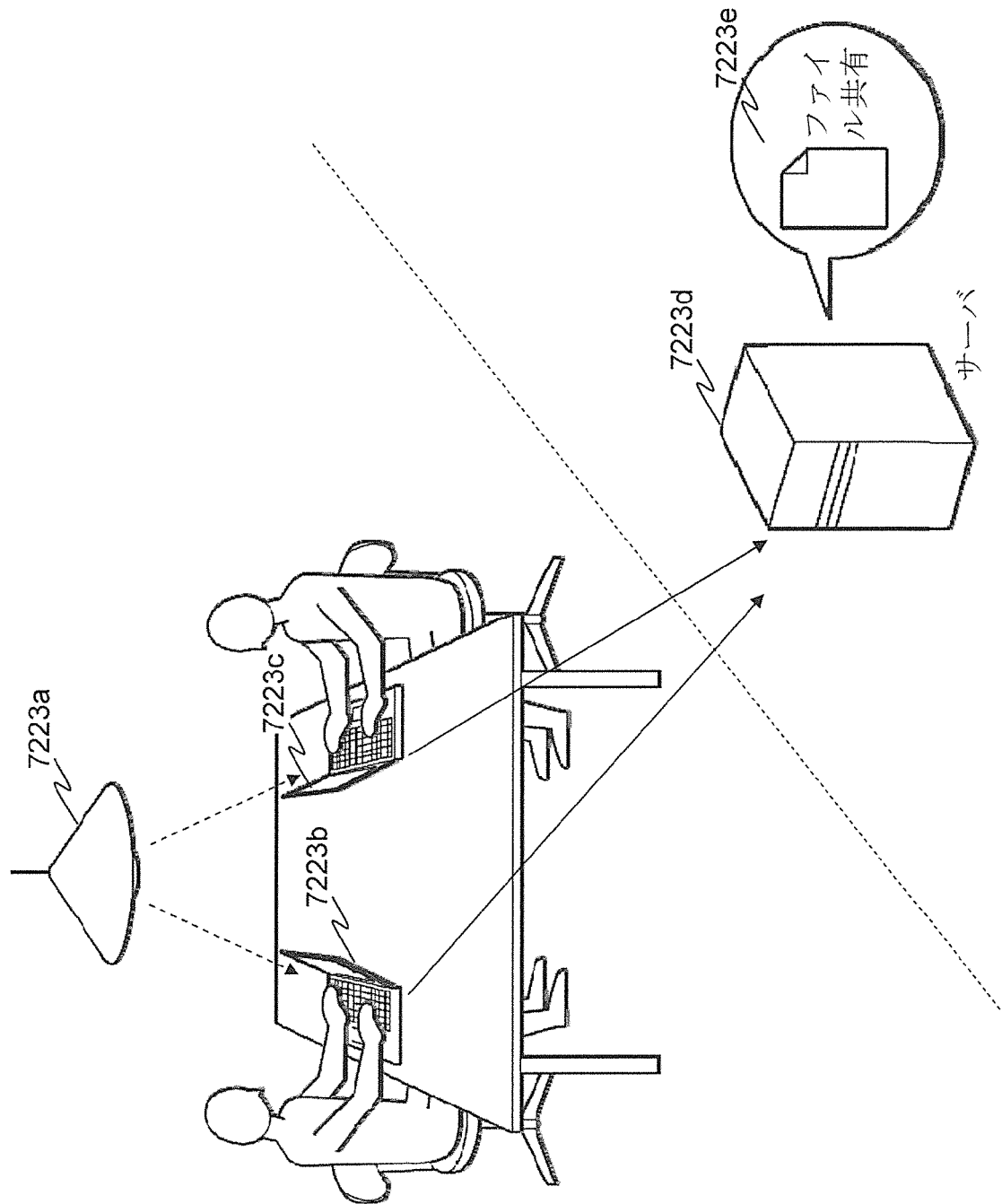
[図305A]



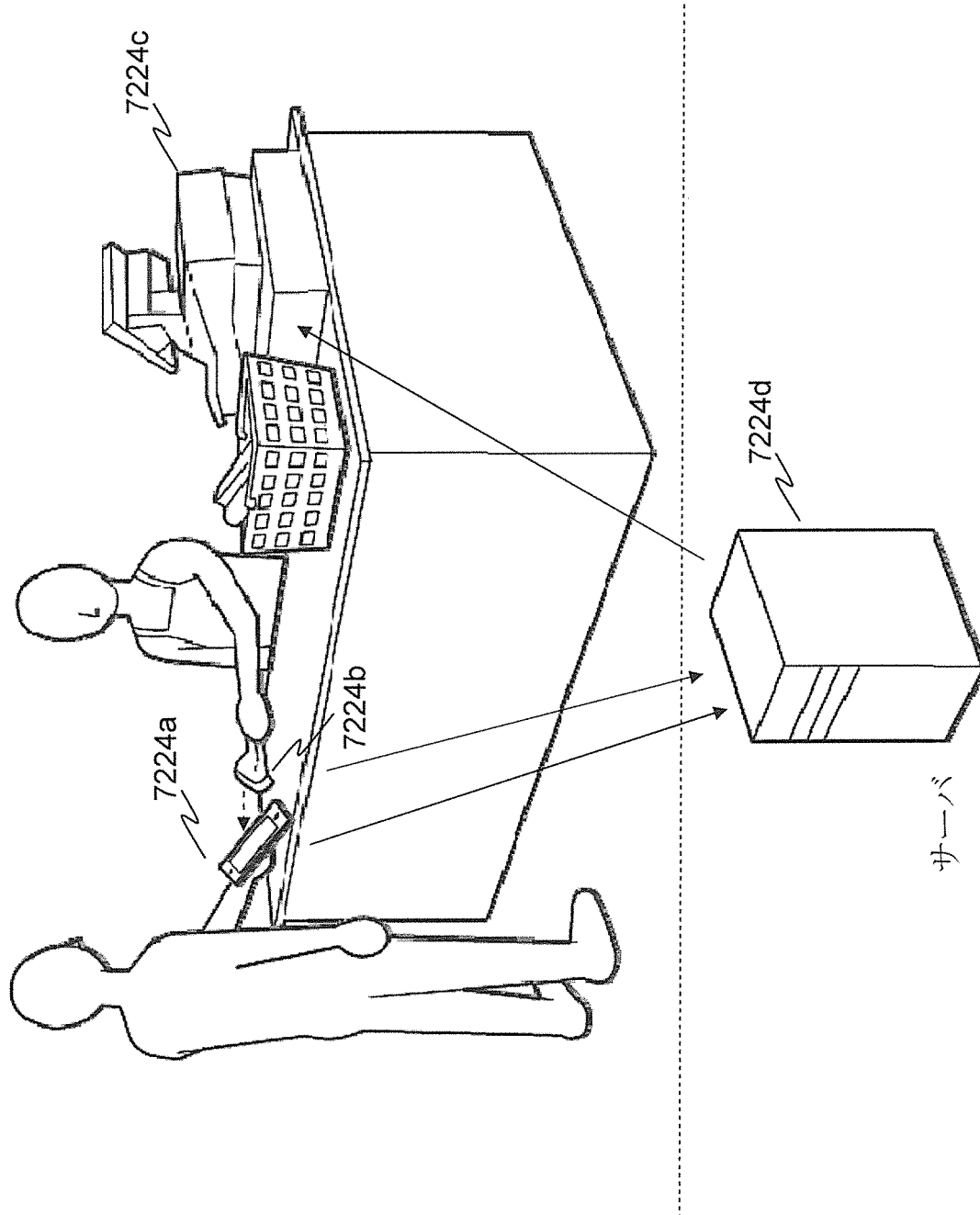
[図305B]



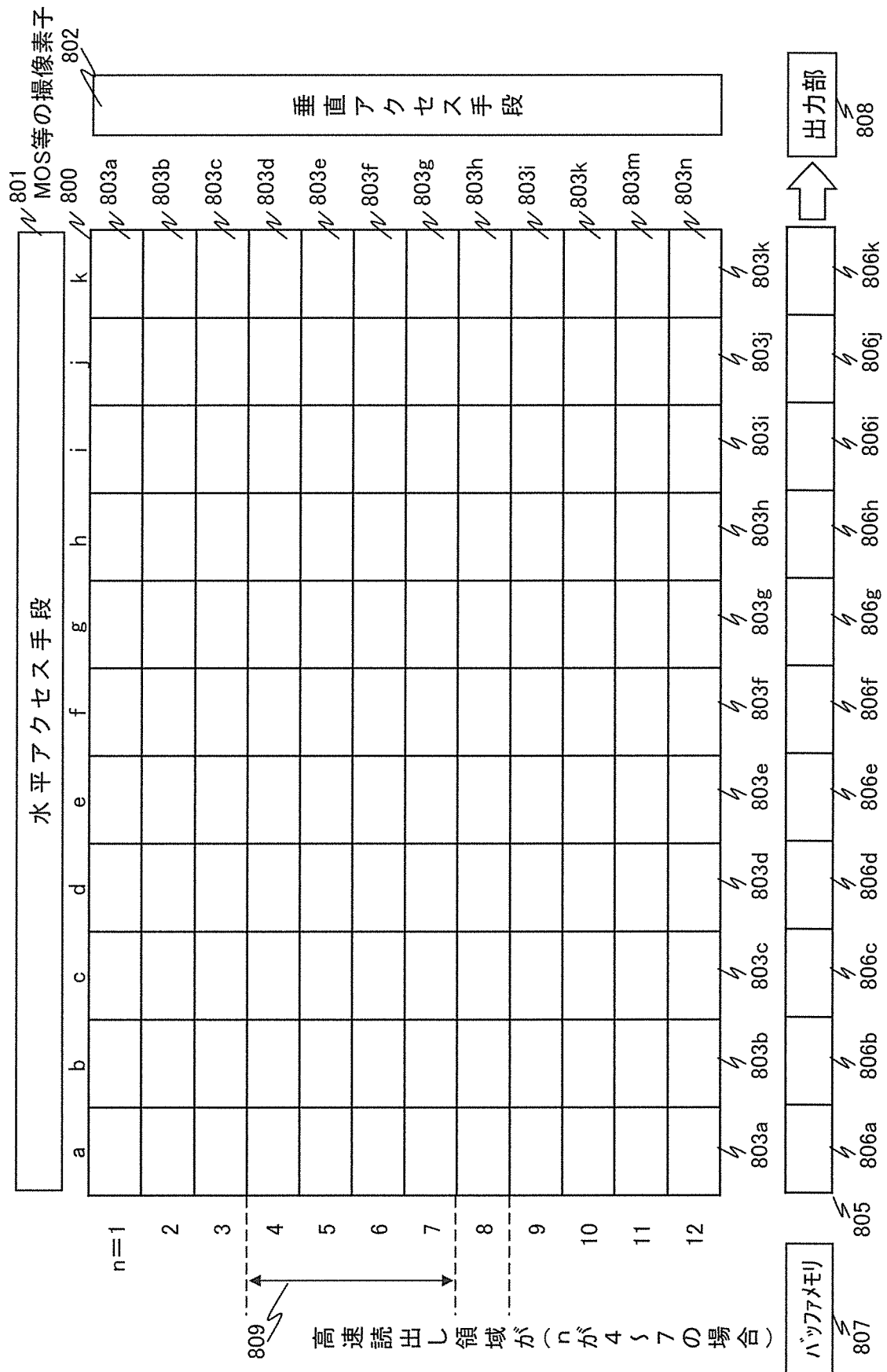
[図306]



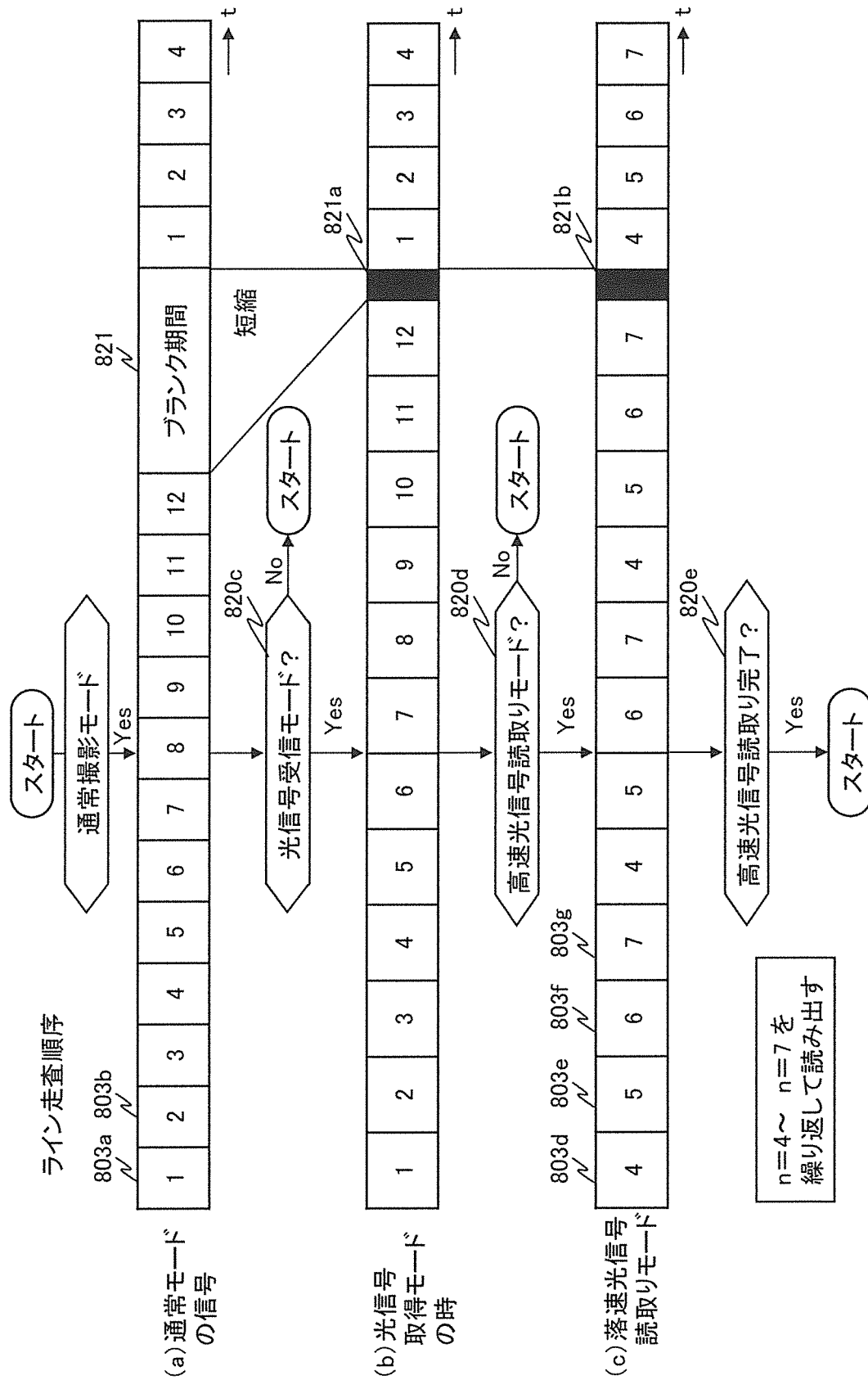
[図307]



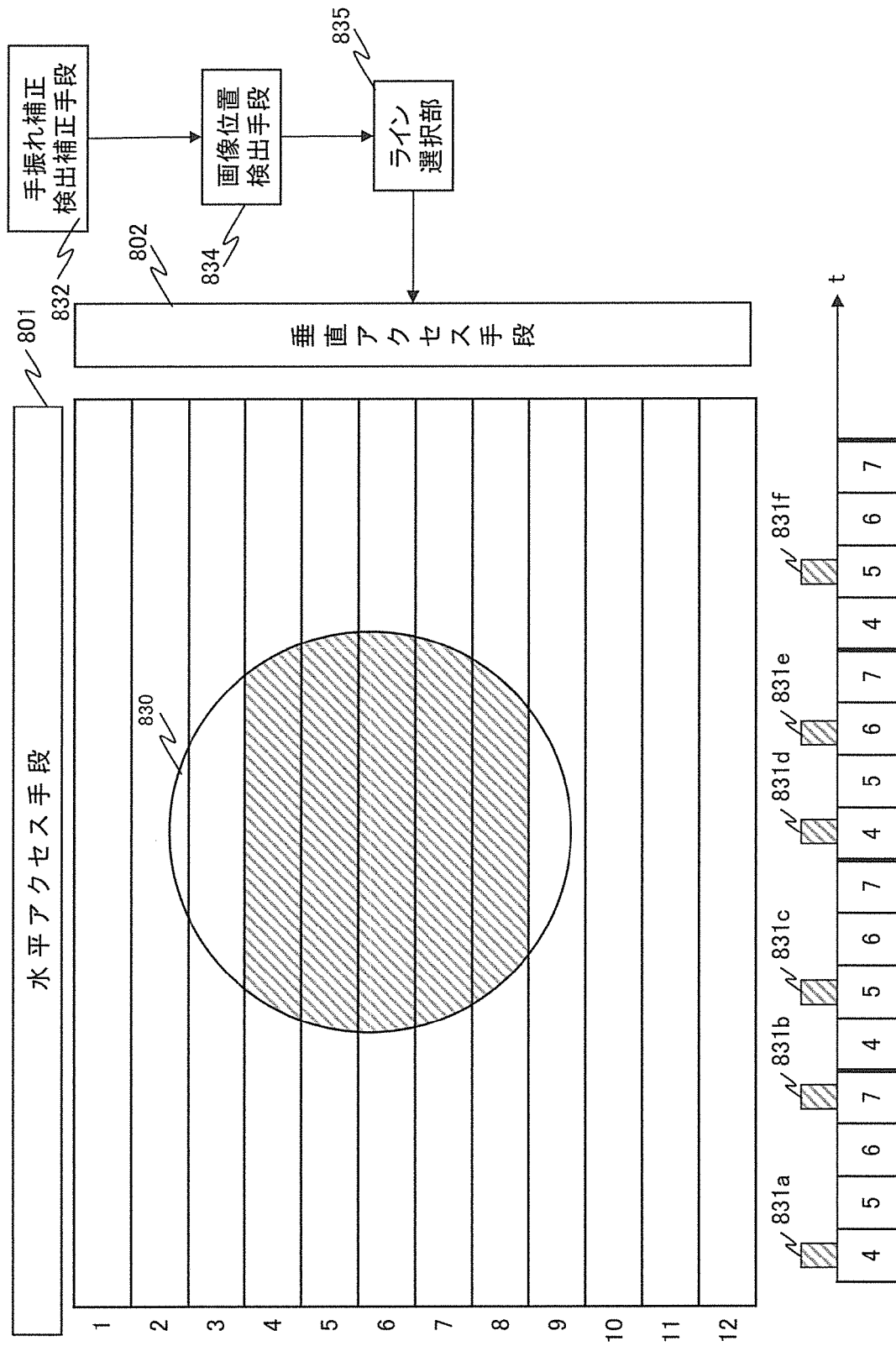
[図308]



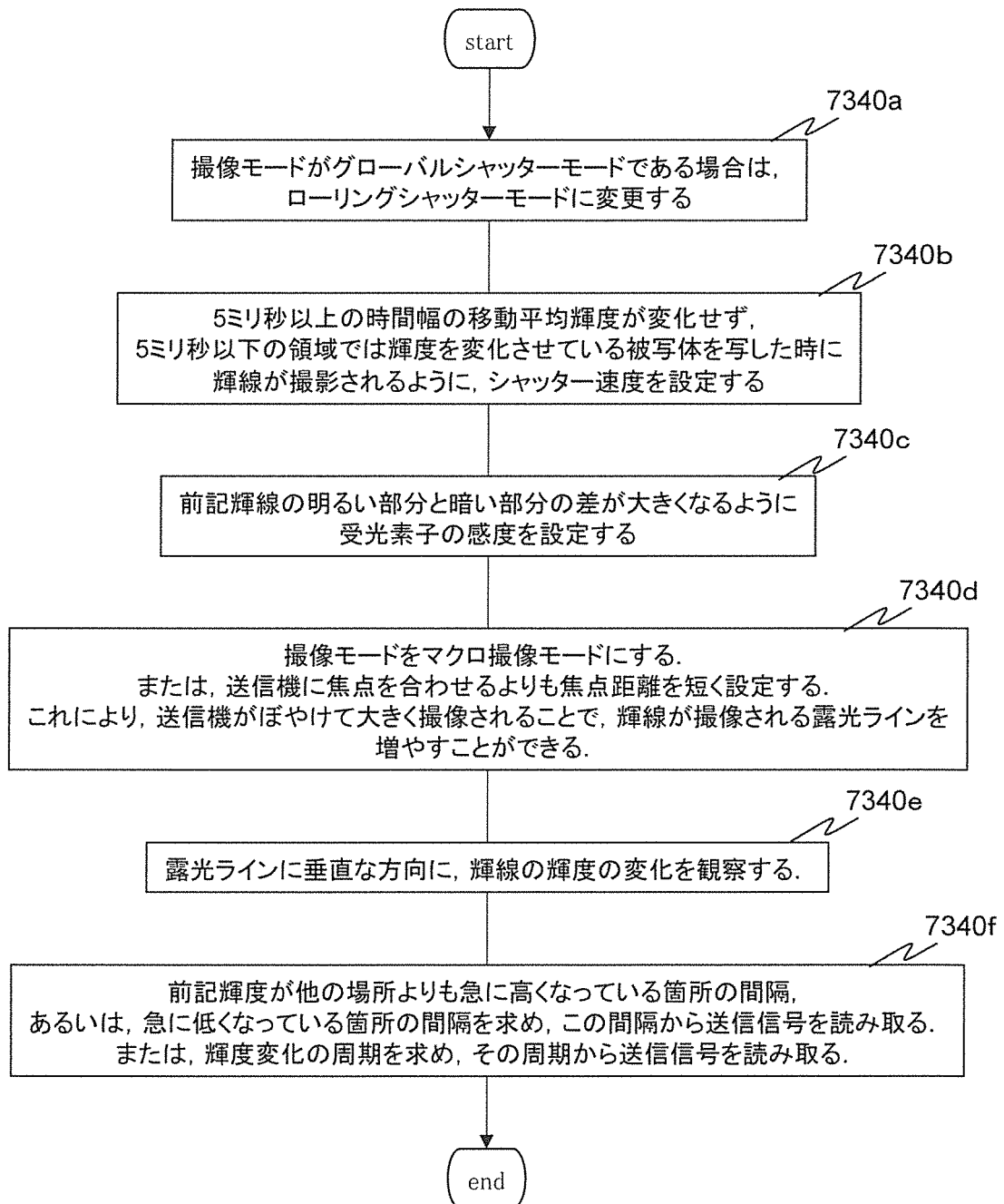
[図309]



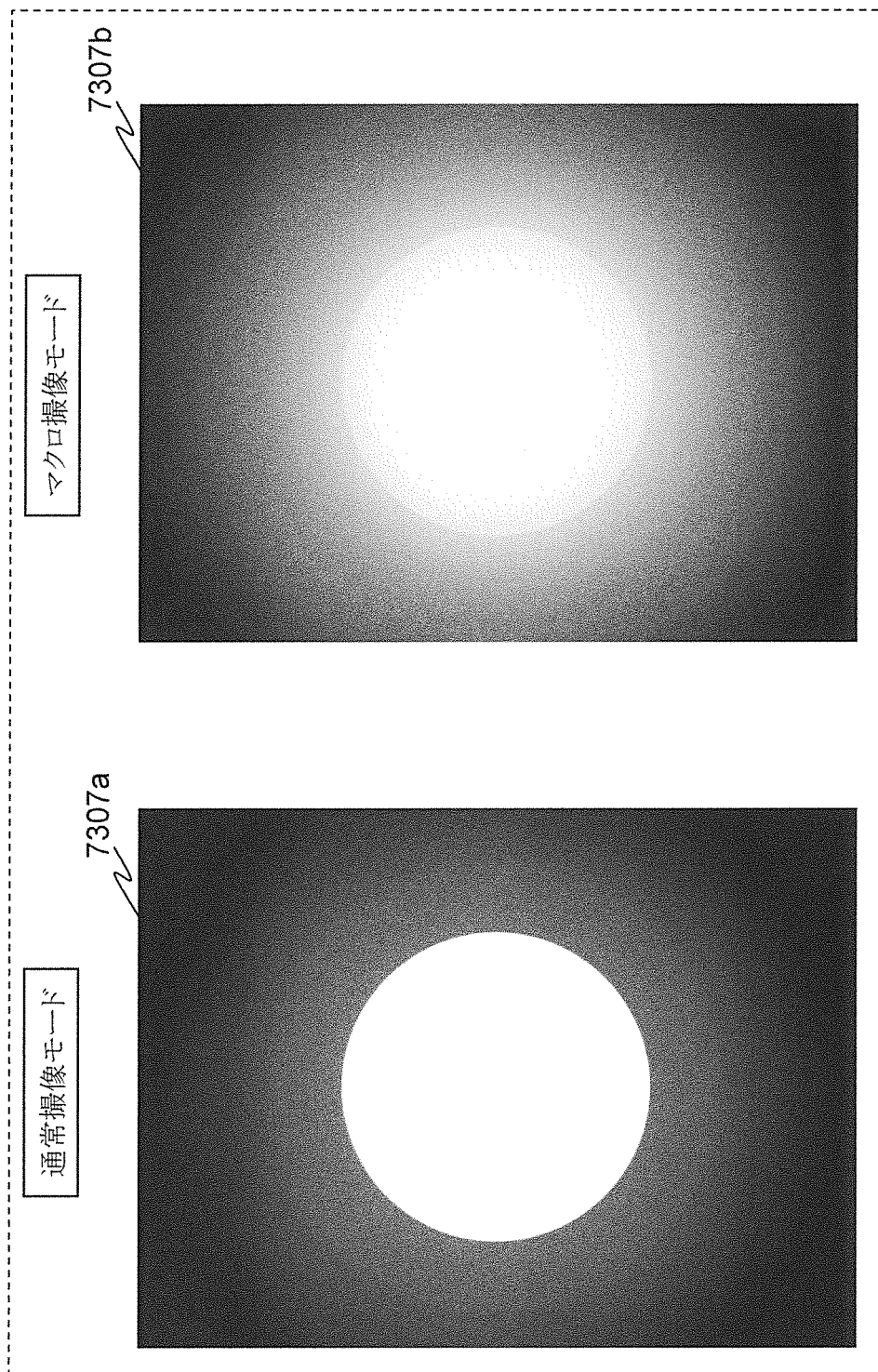
[図310]



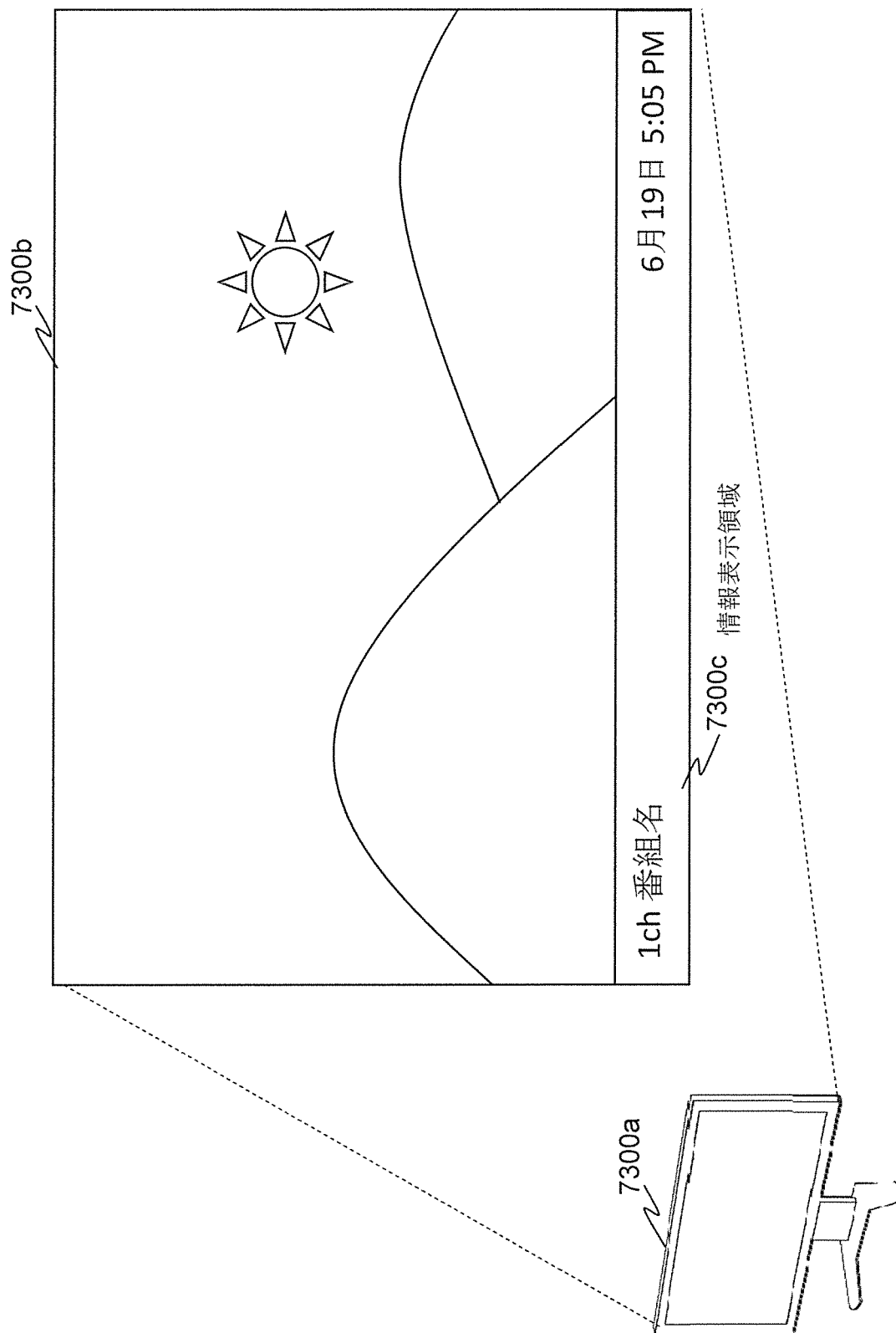
[図311A]



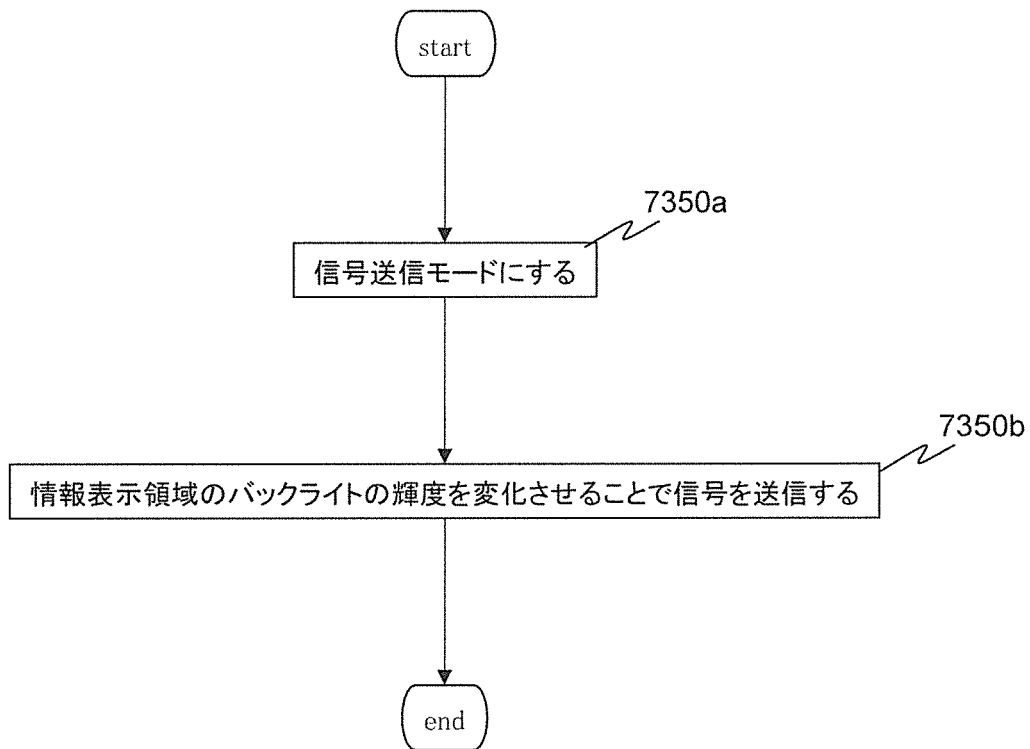
[図311B]



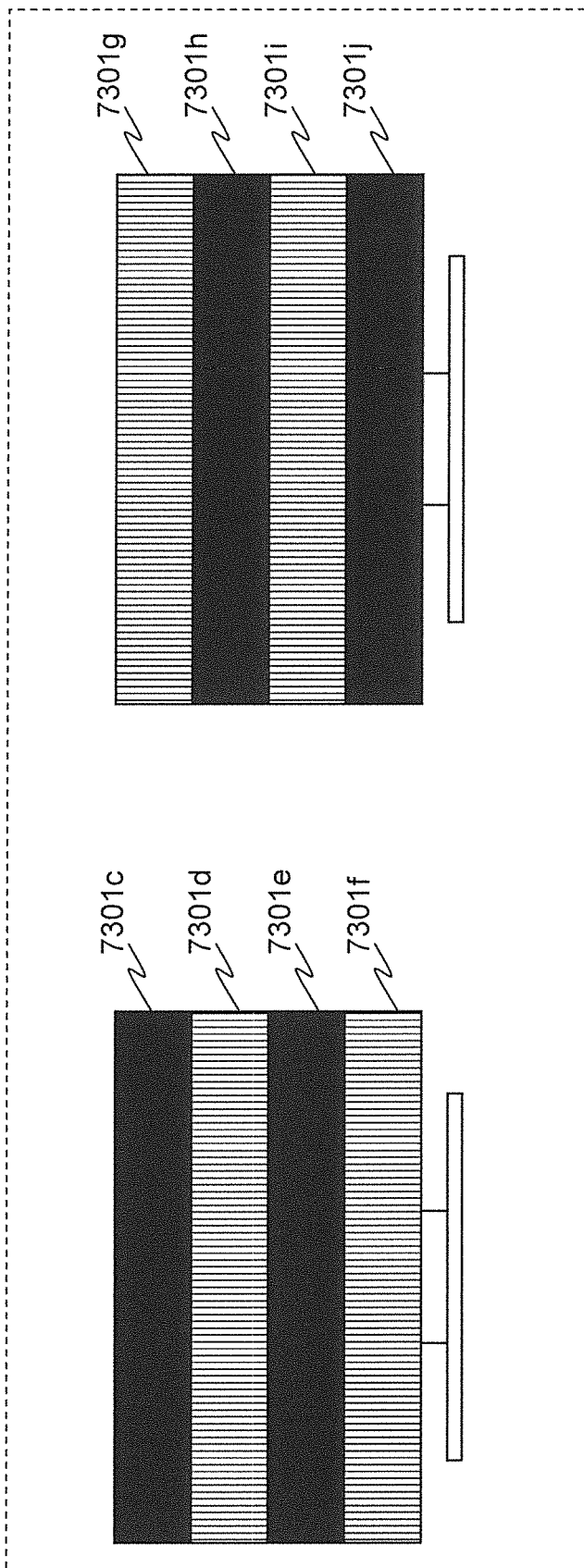
[図312]



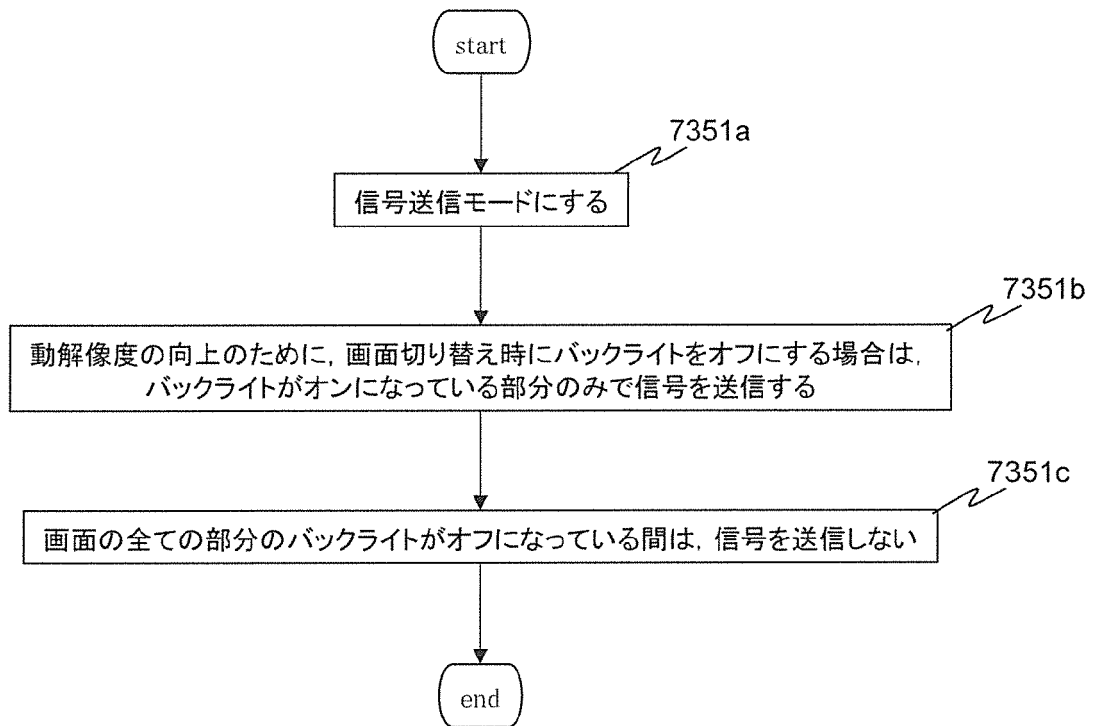
[図313]



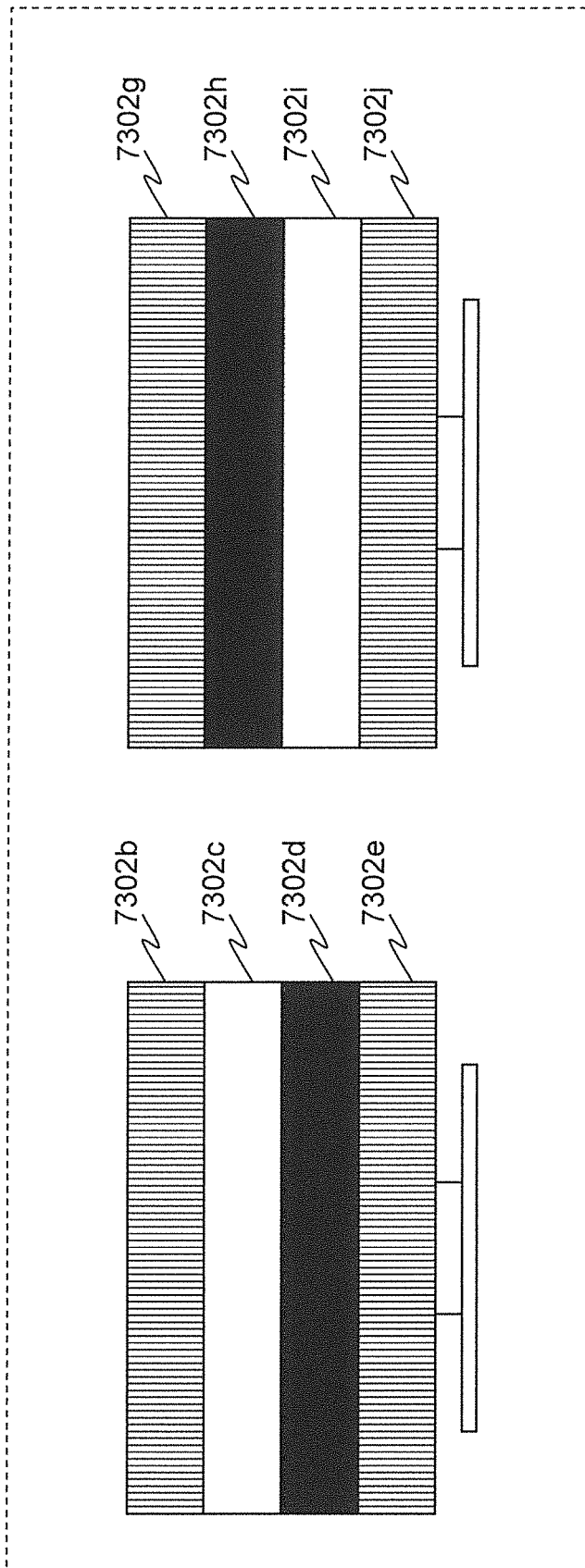
[図314]



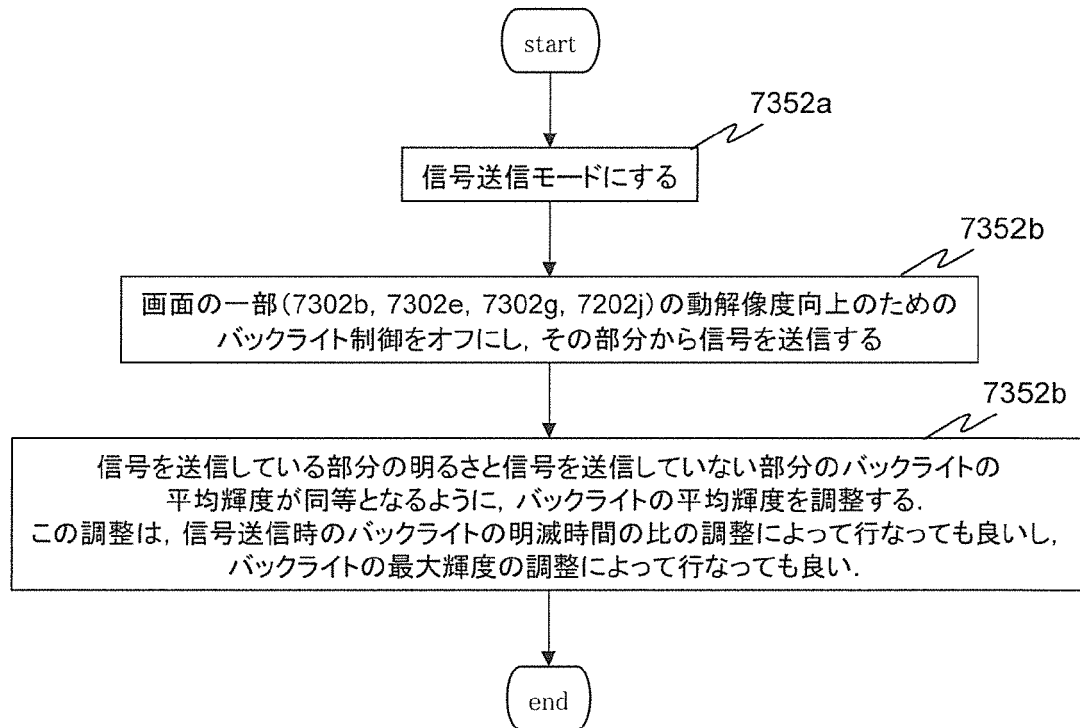
[図315]



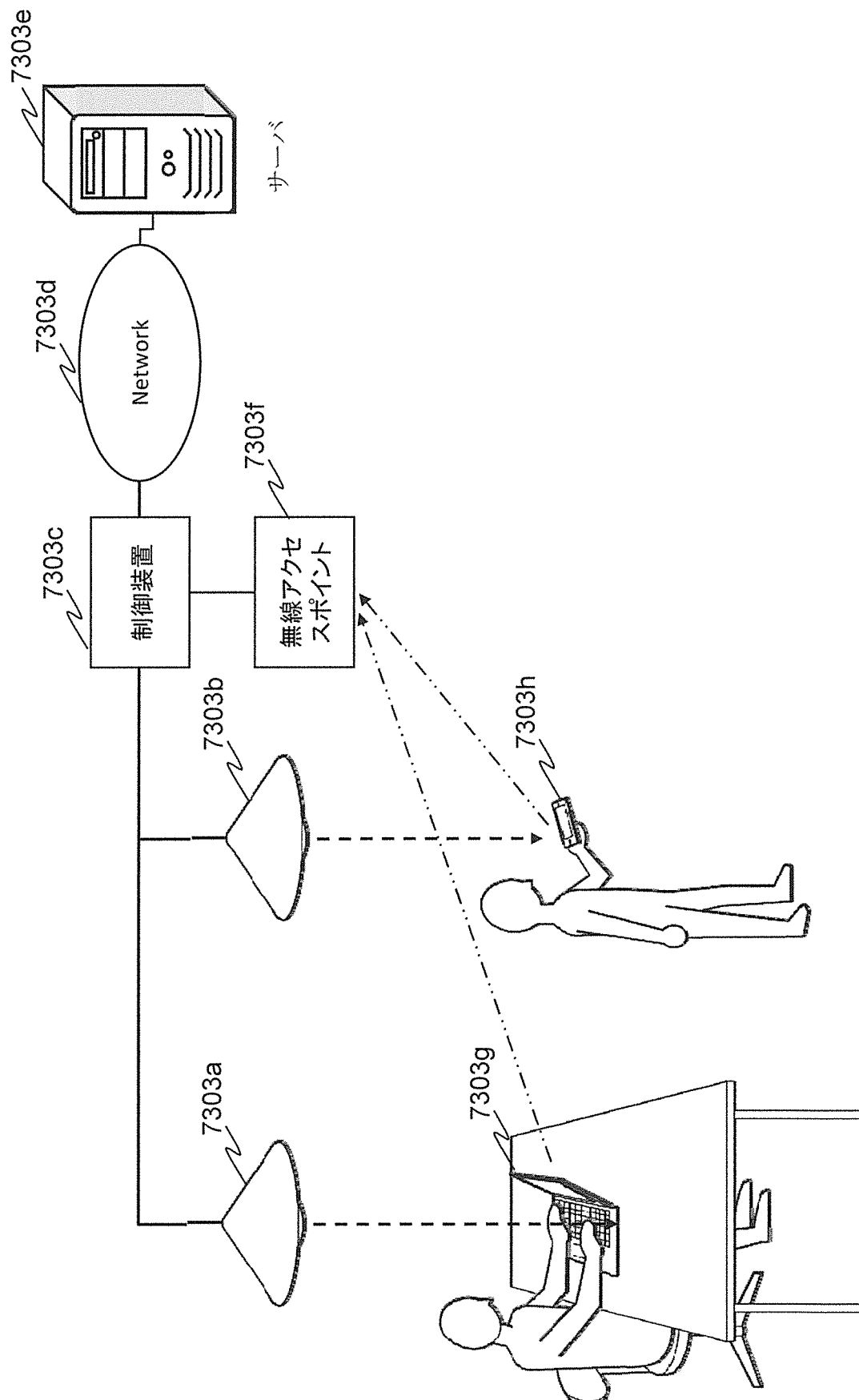
[図316]



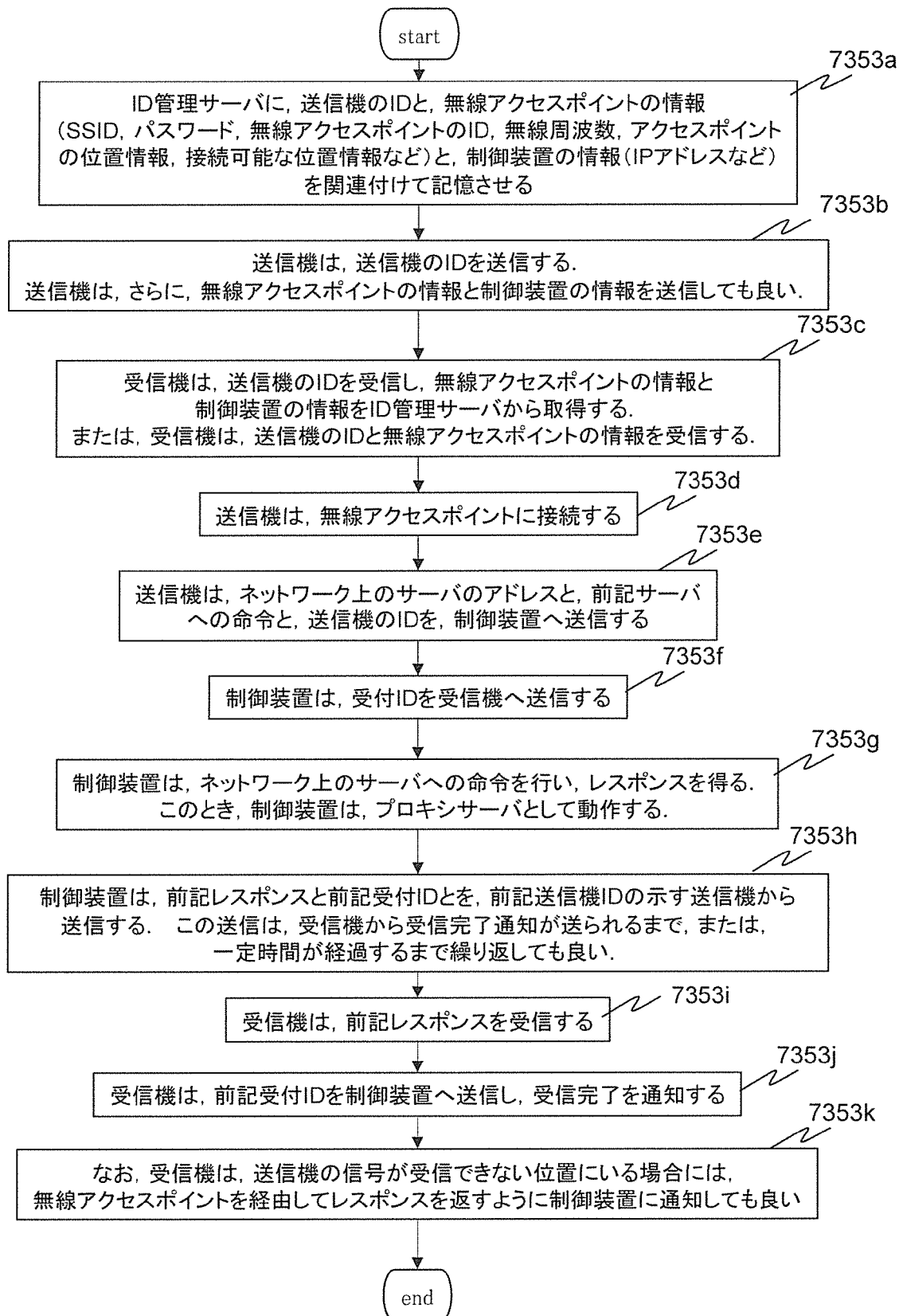
[図317]



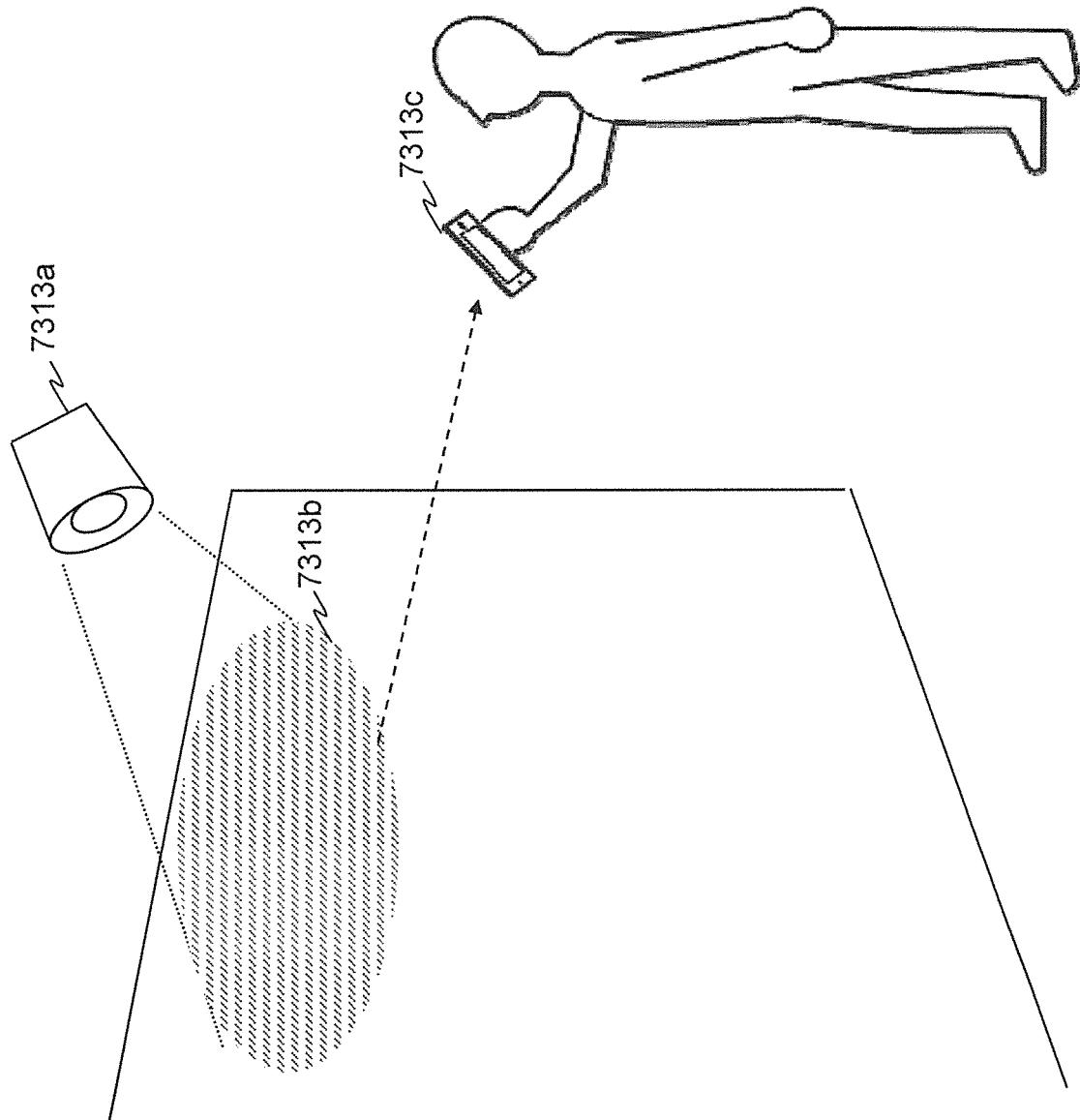
[図318]



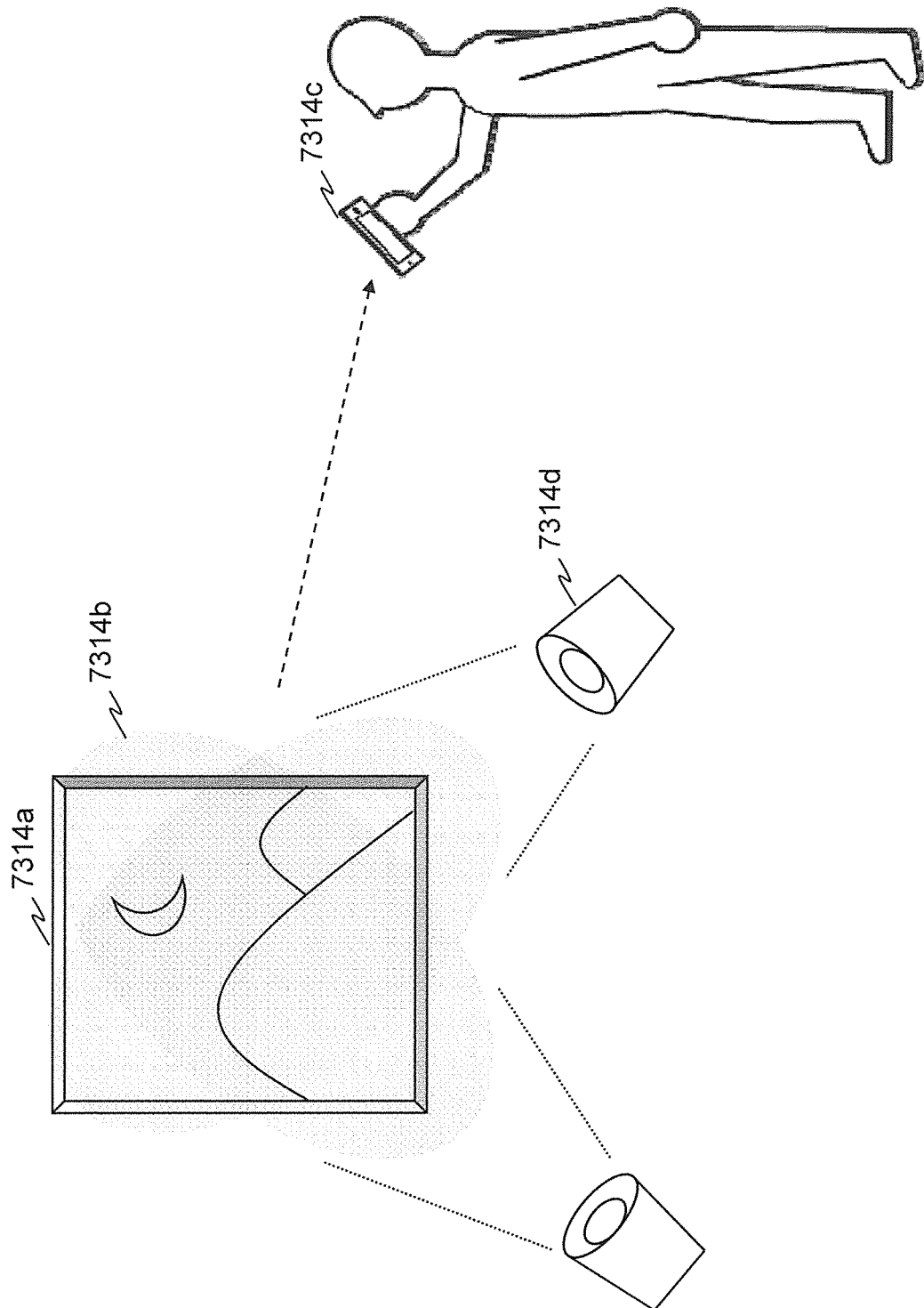
[図319]



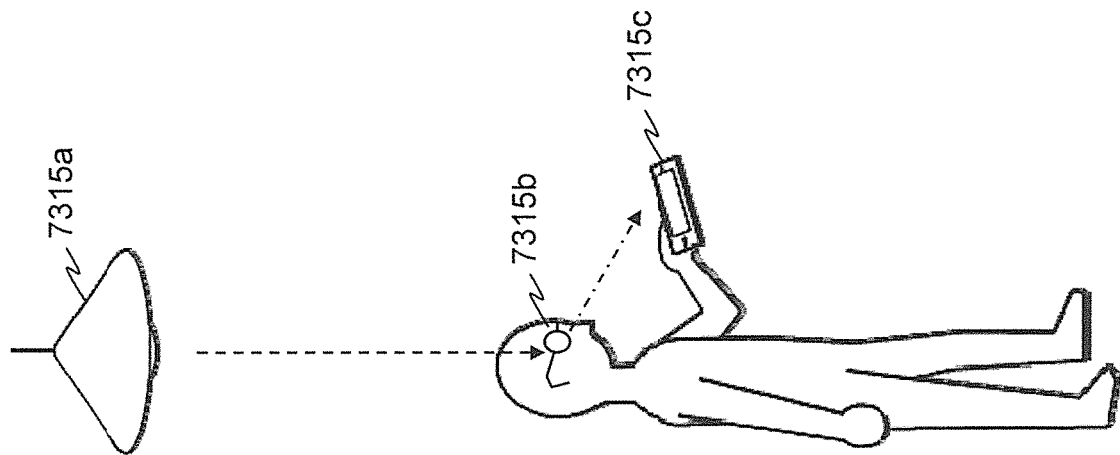
[図320]



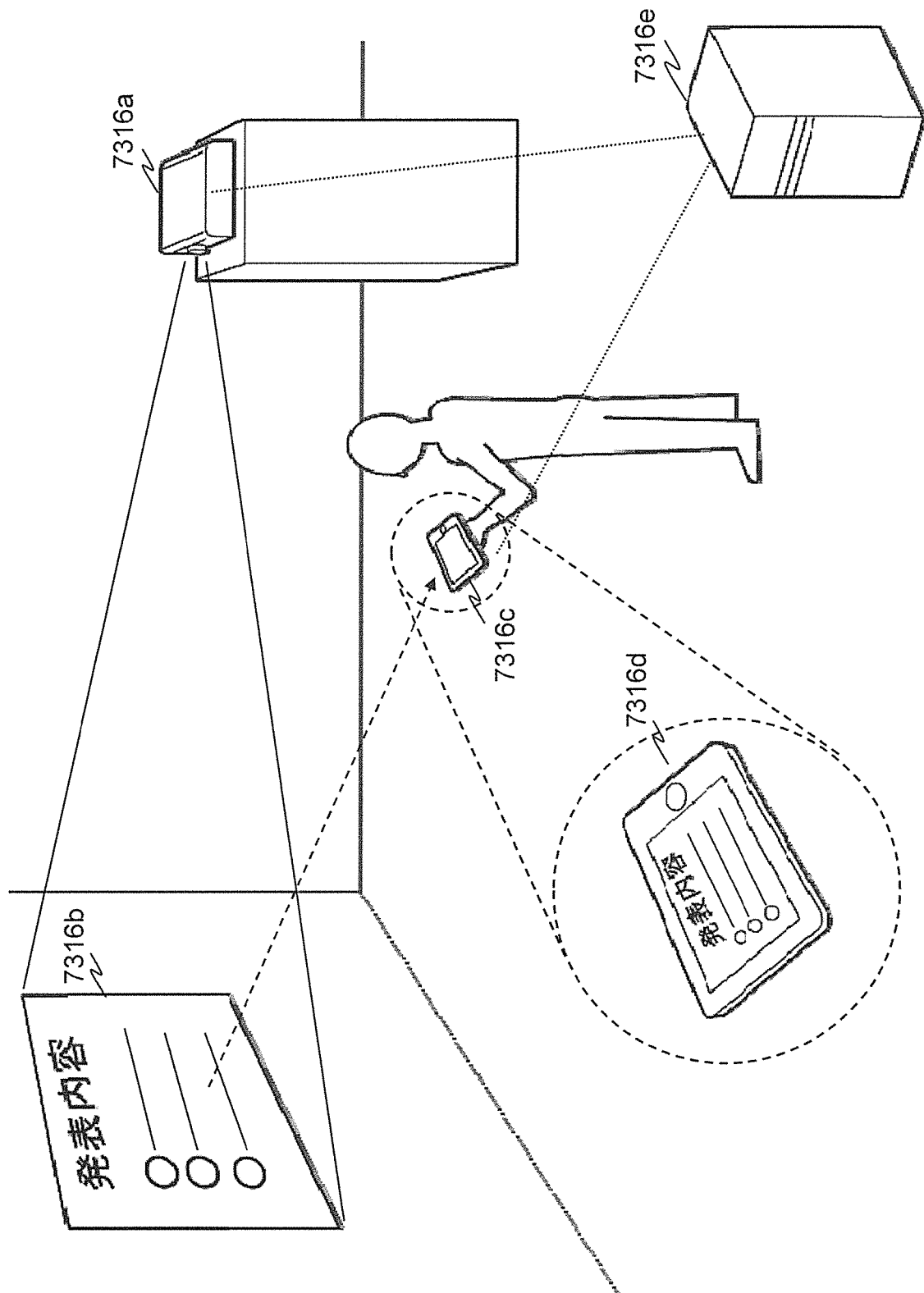
[図321]



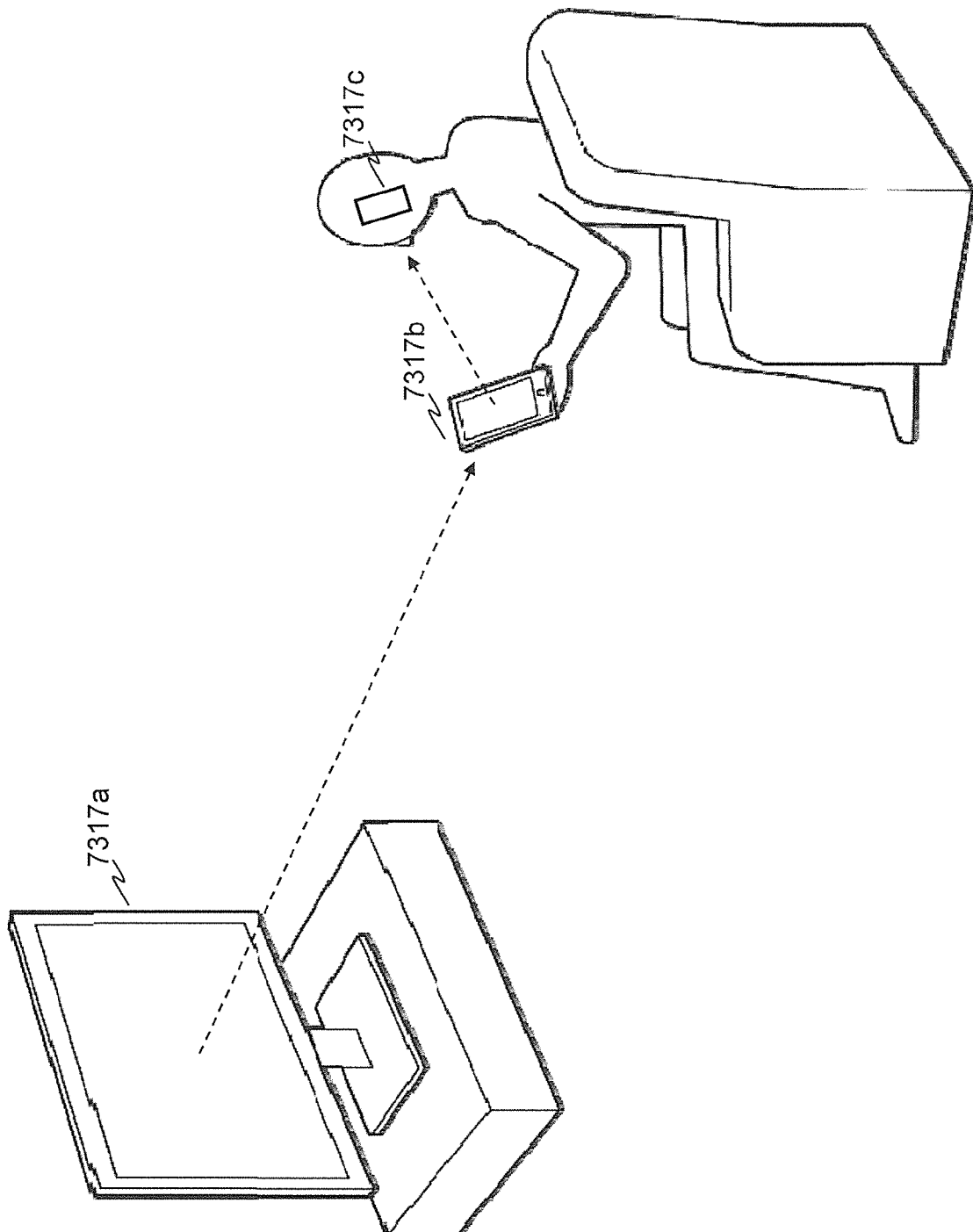
[図322]



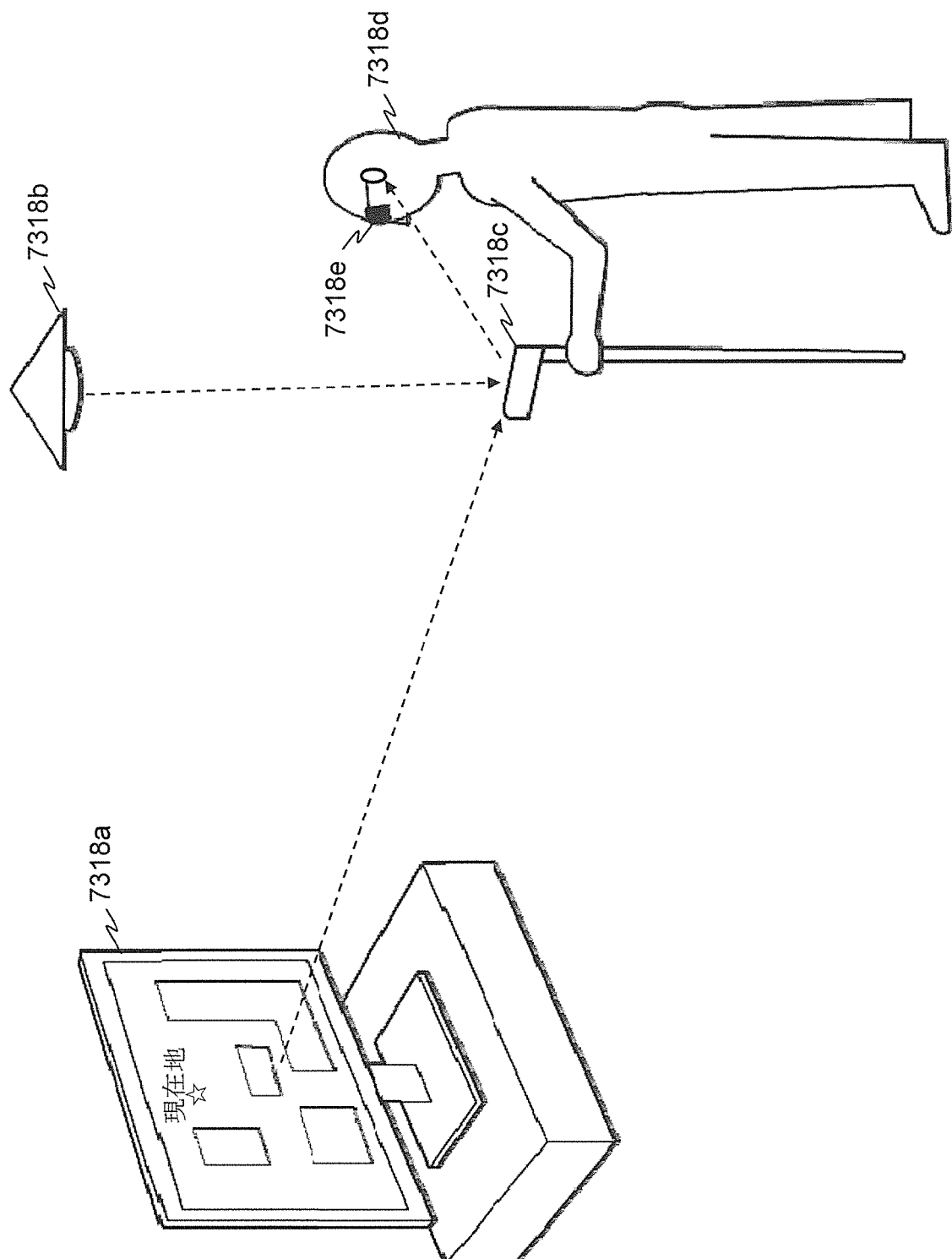
[図323A]



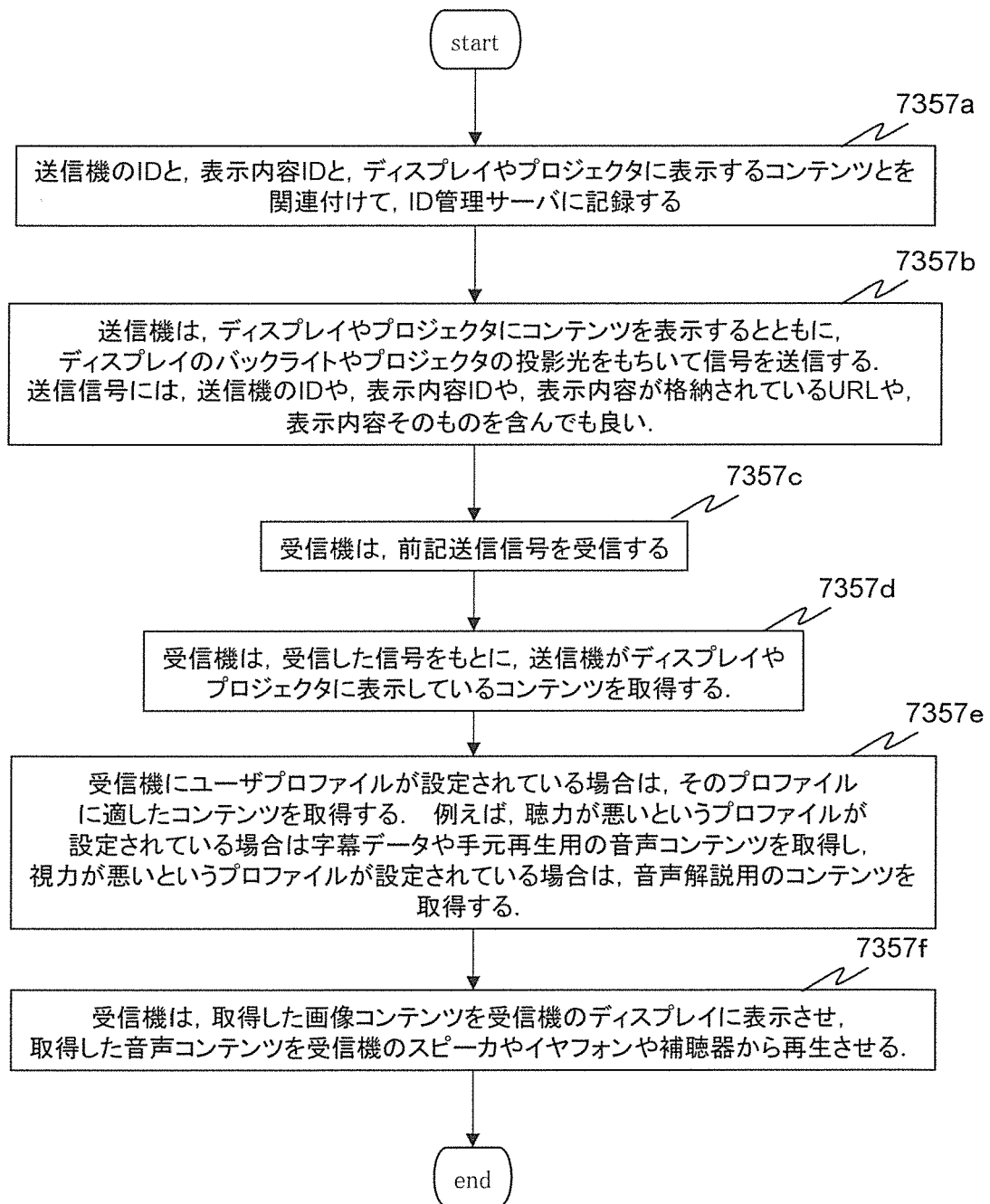
[図323B]



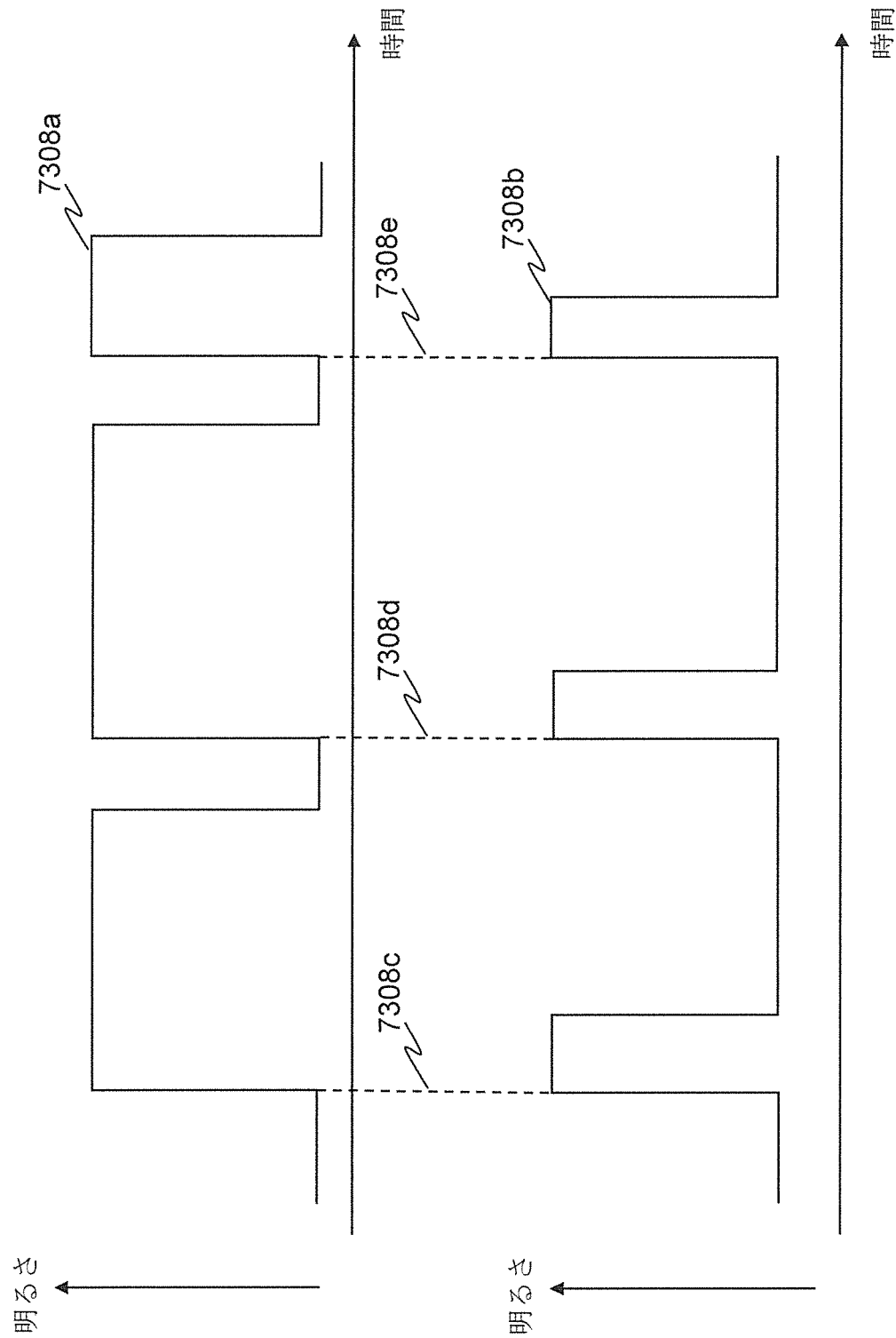
[図323C]



[図323D]



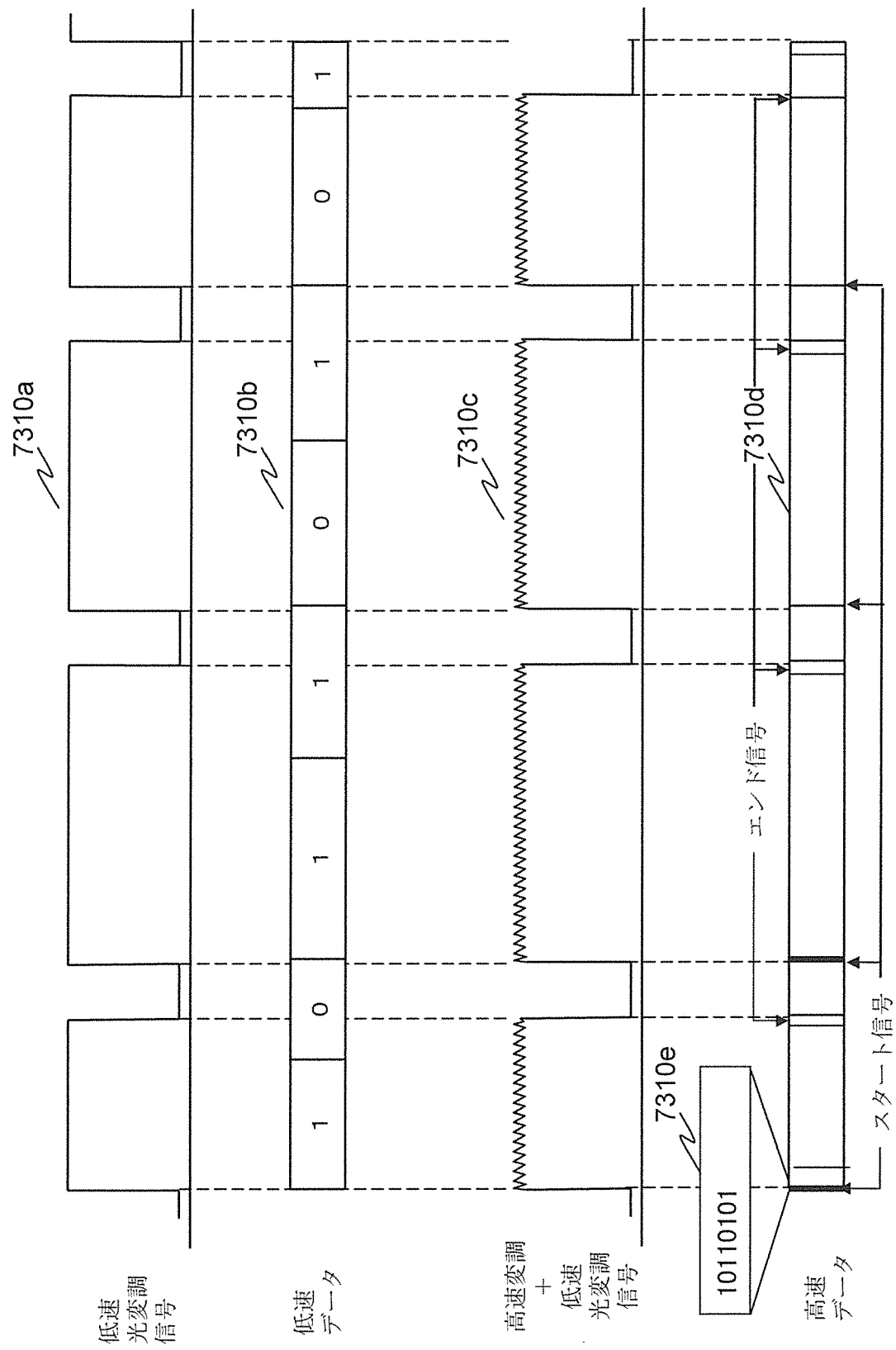
[図324]



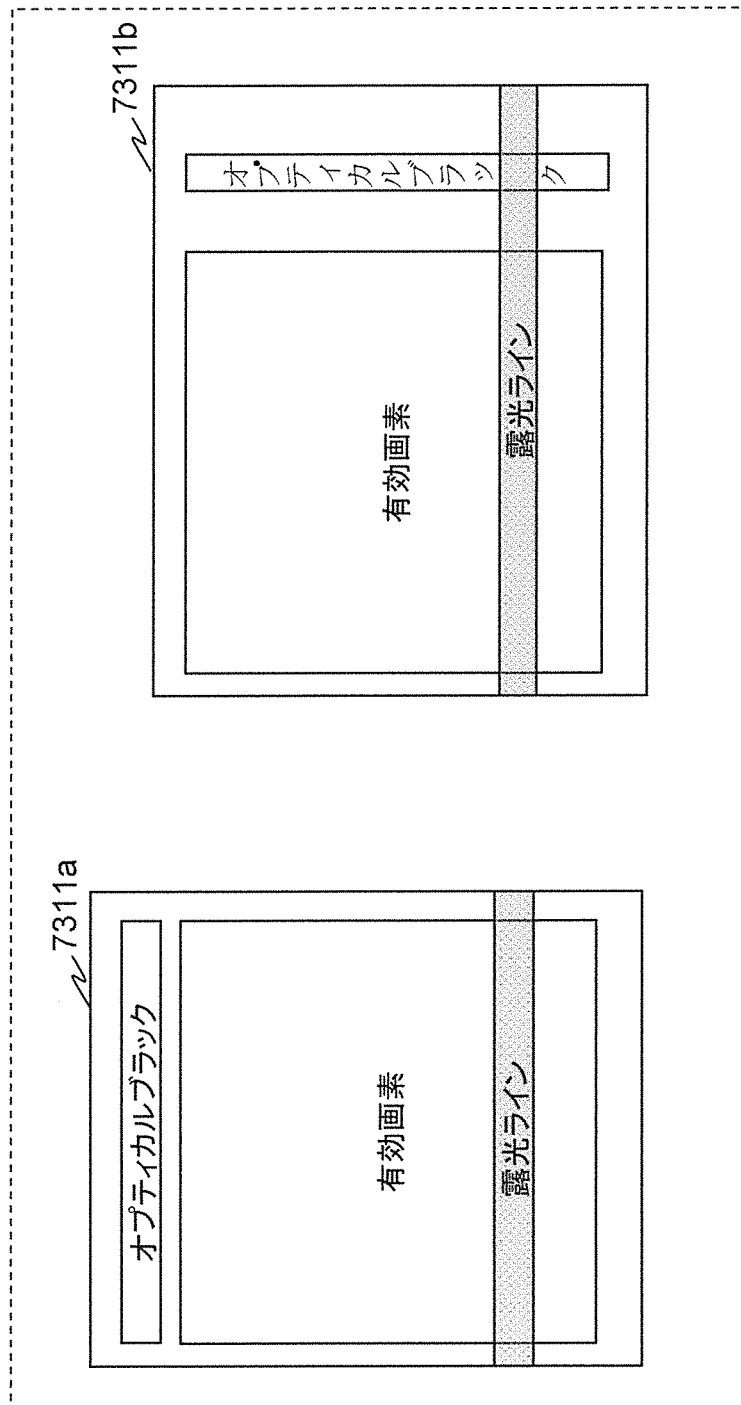
[図325]



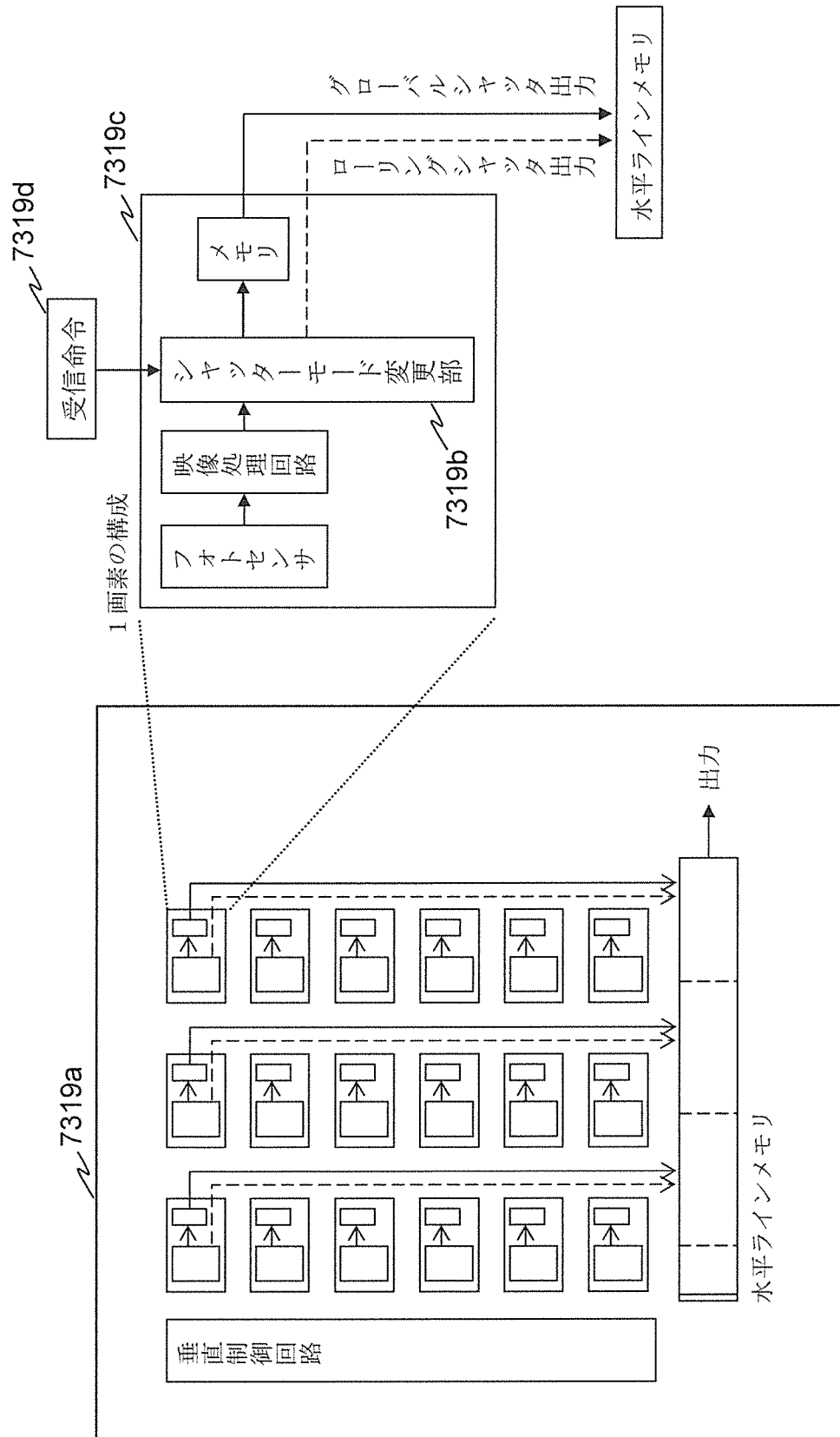
[図326]



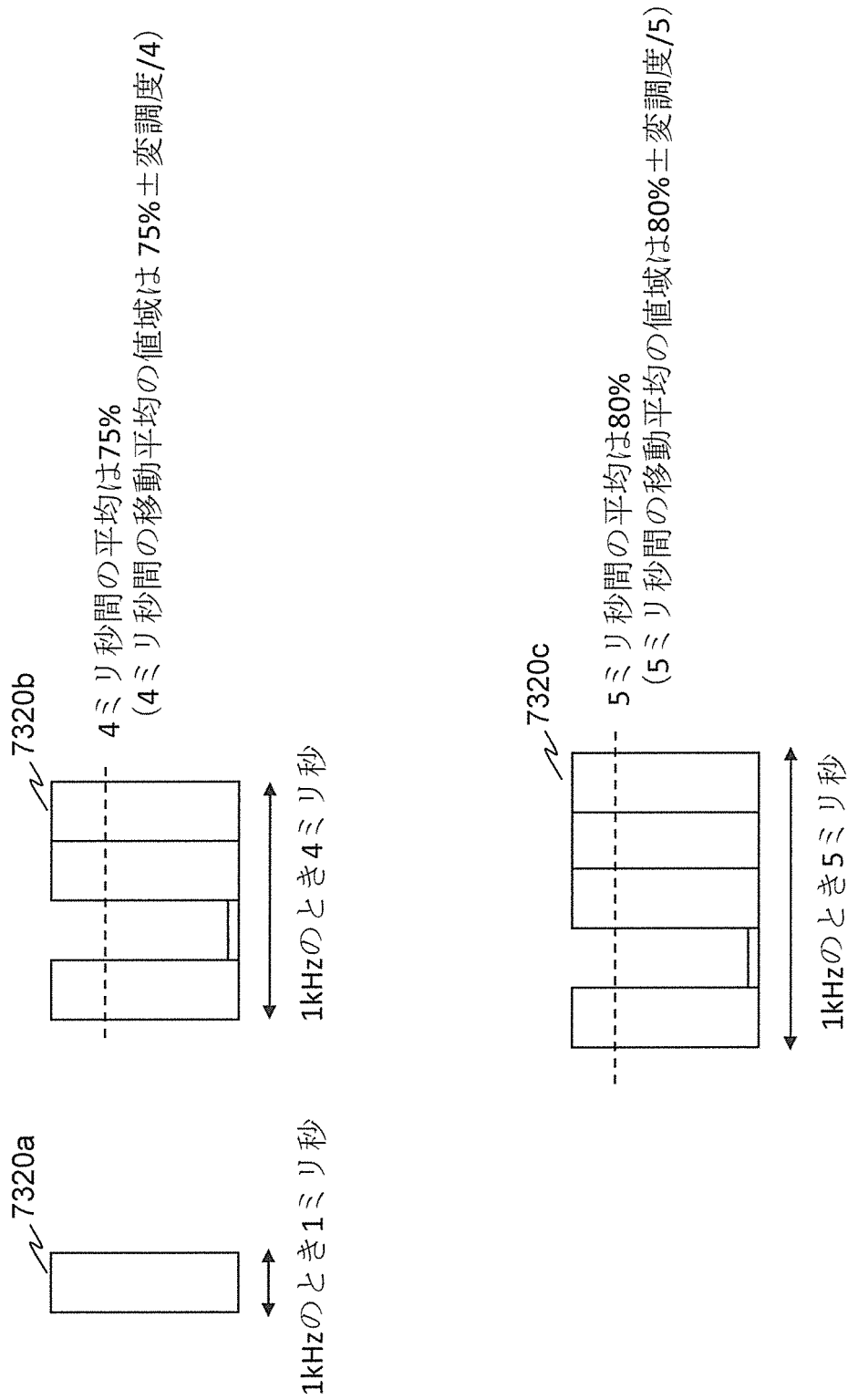
[図327A]



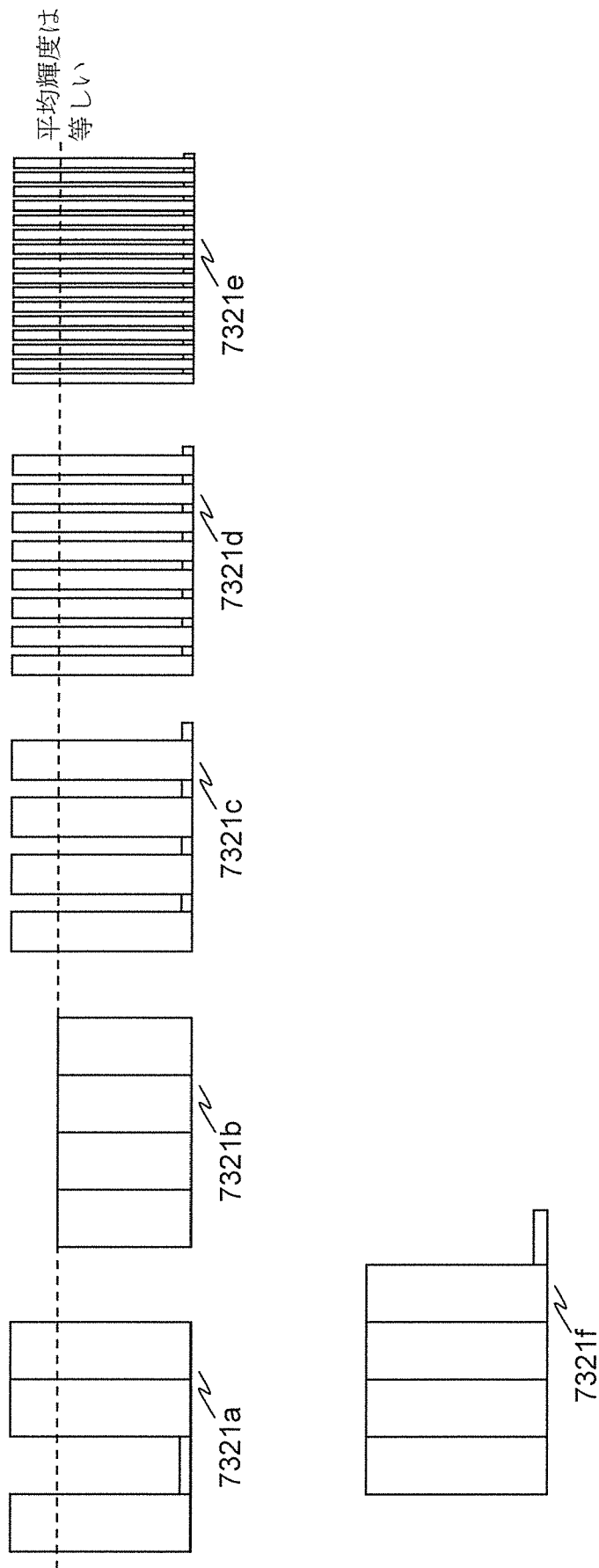
[図327B]



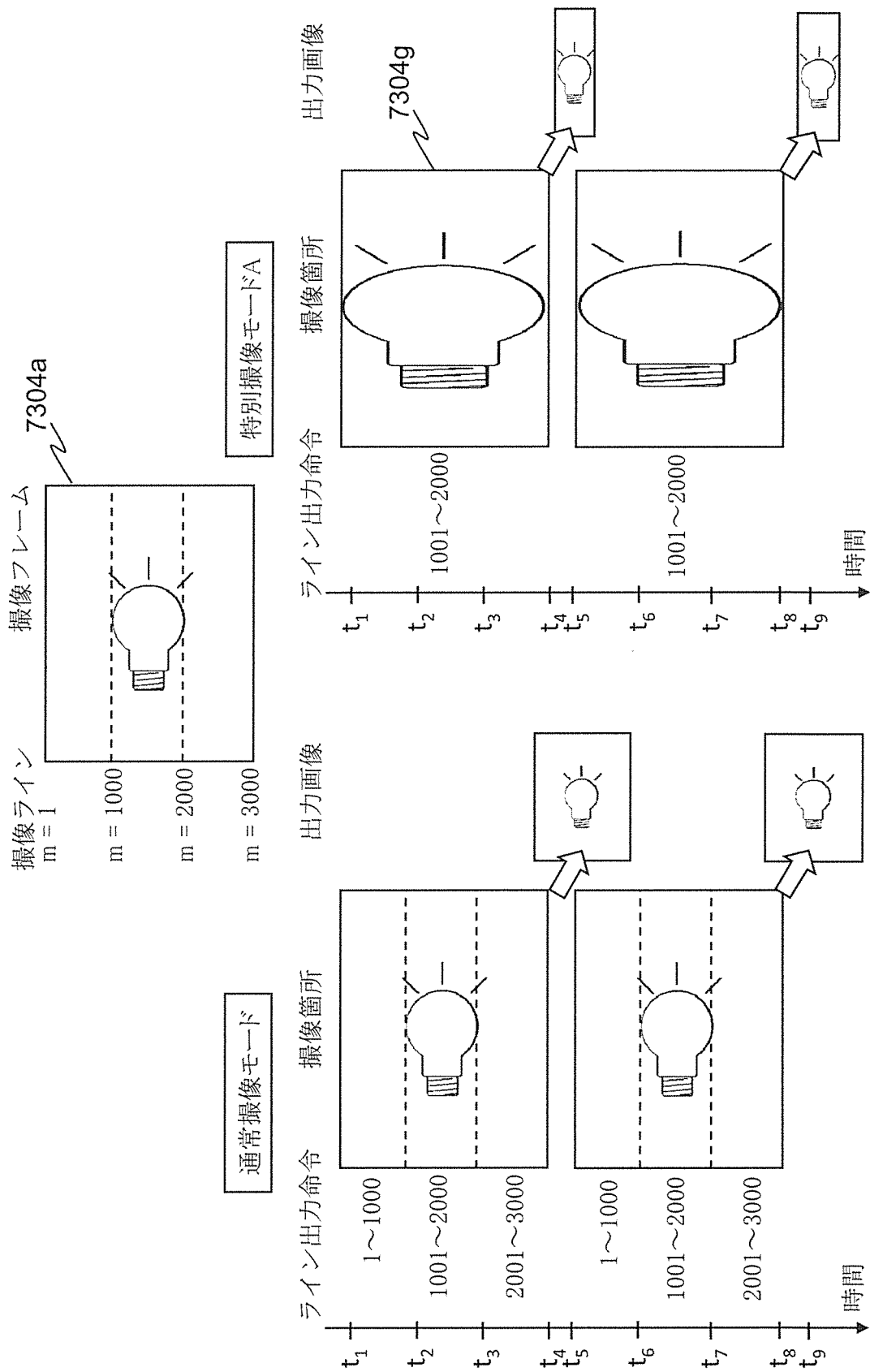
[図327C]



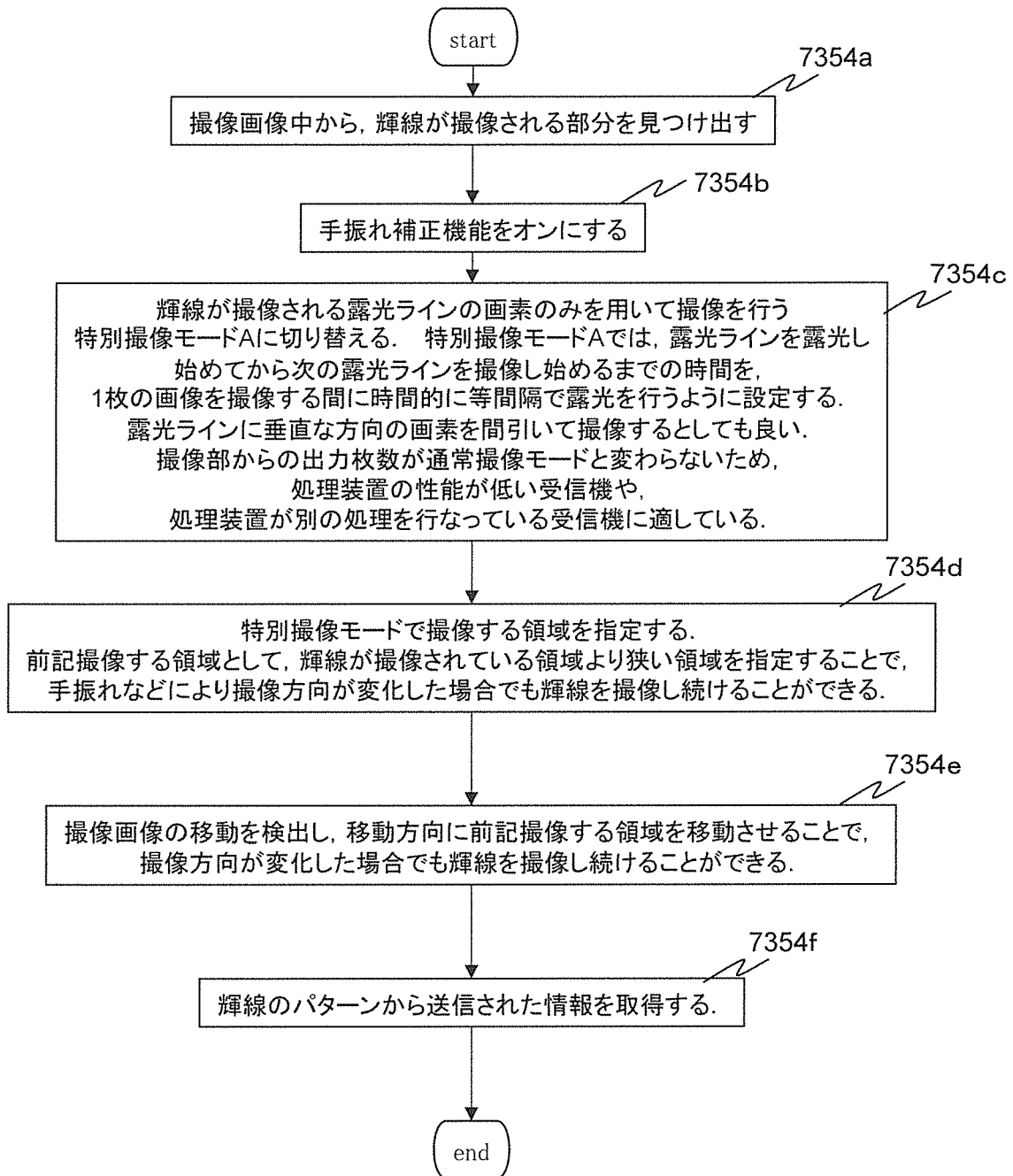
[図327D]

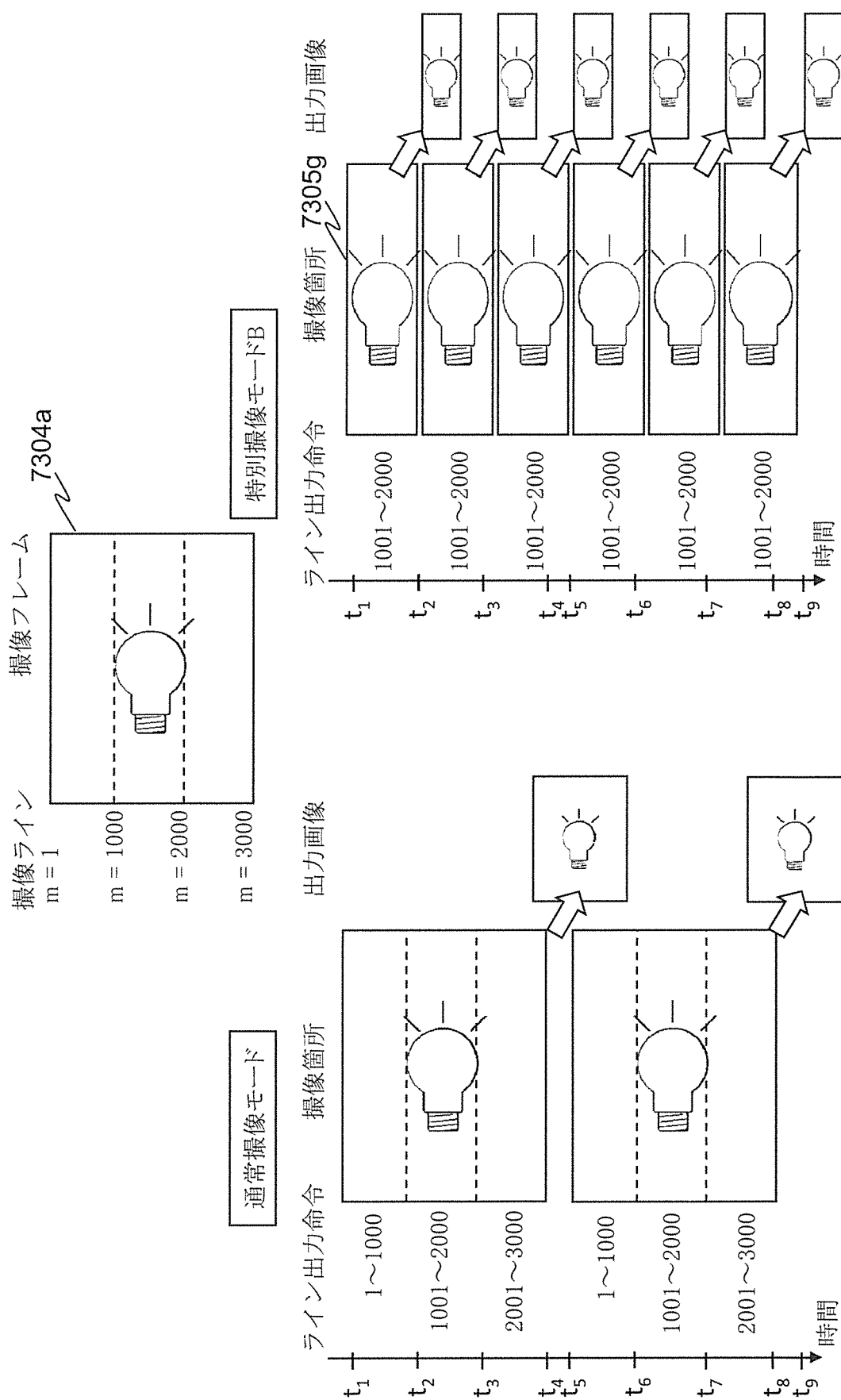


[図328A]

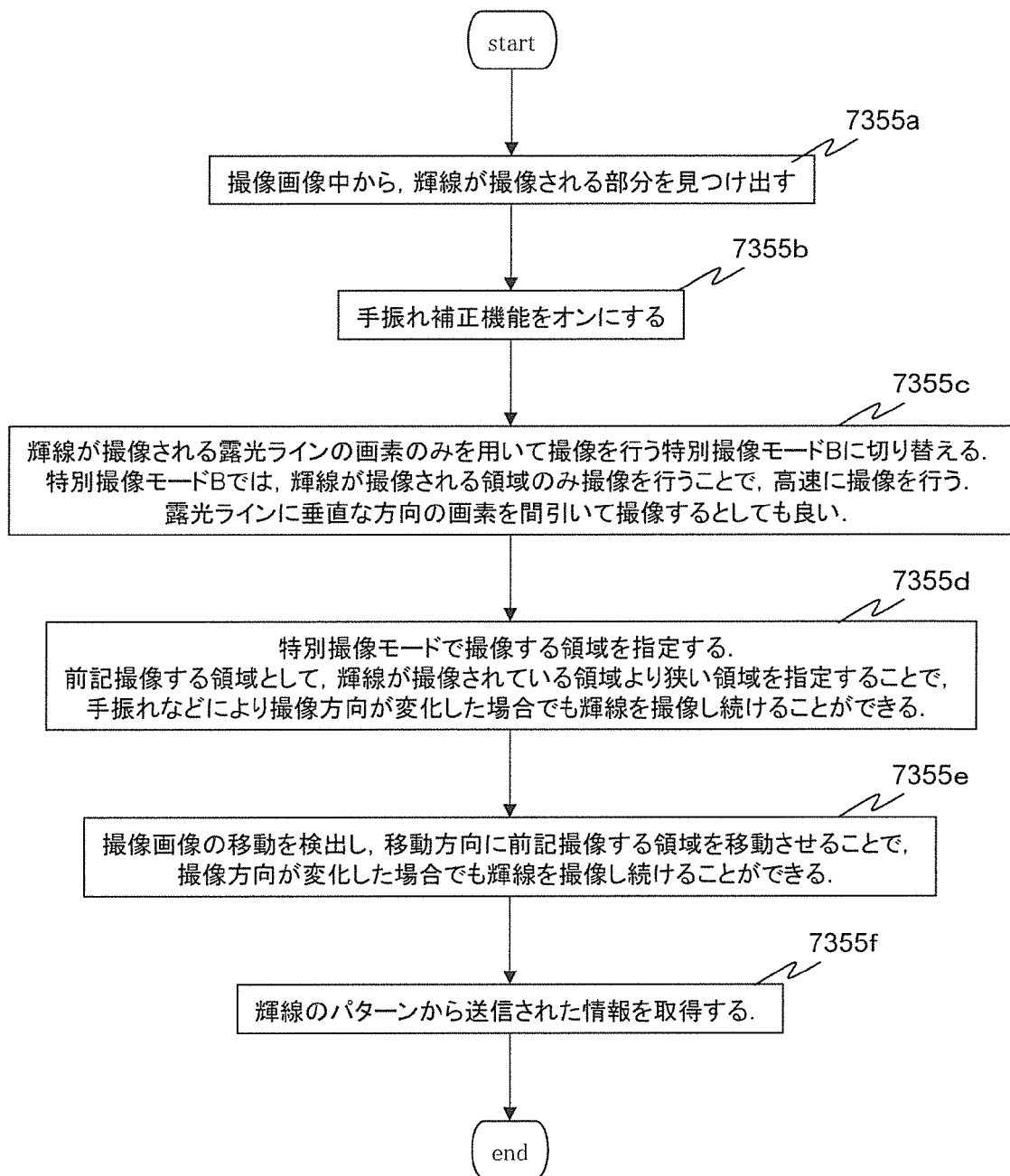


[図328B]

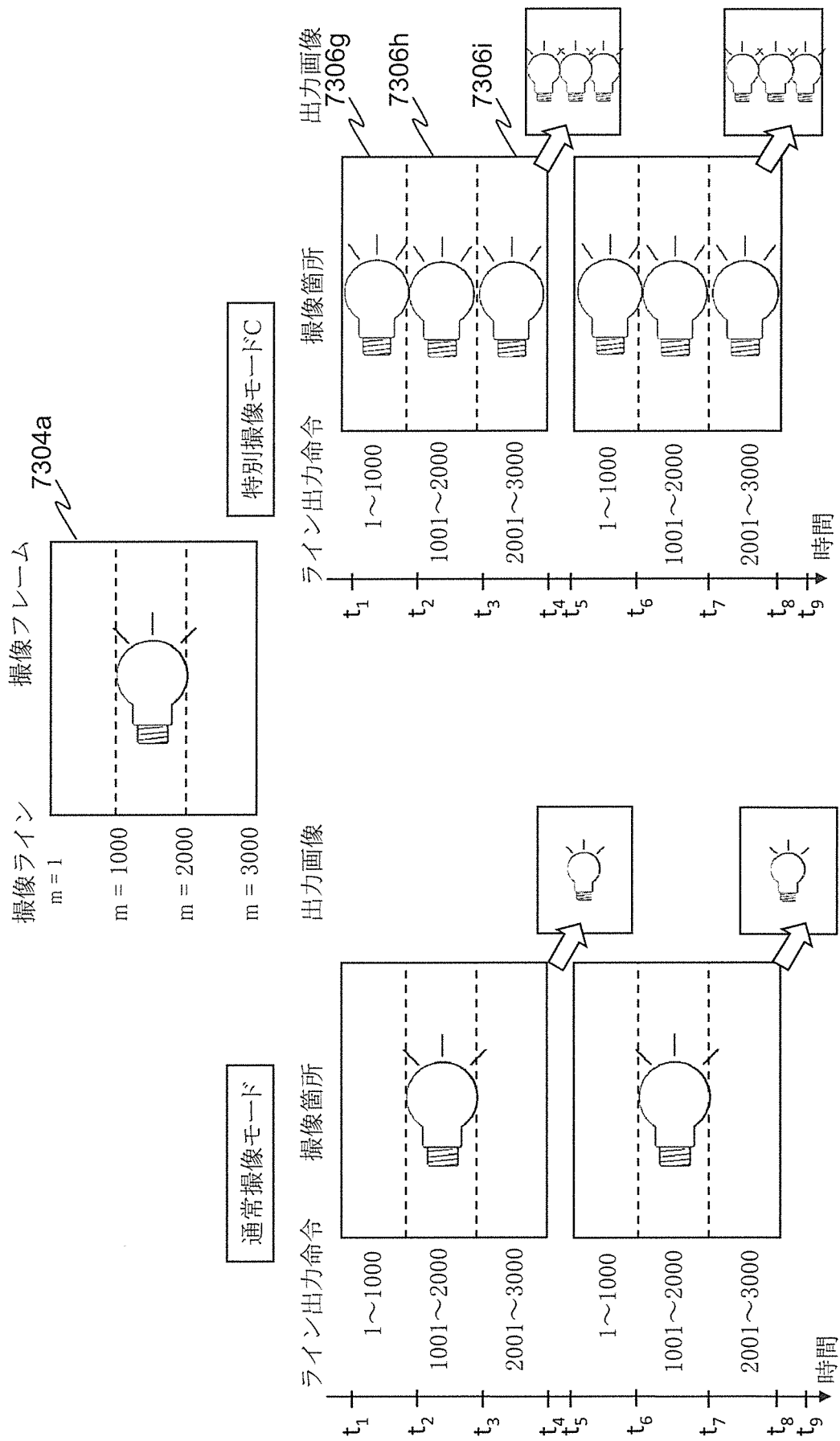




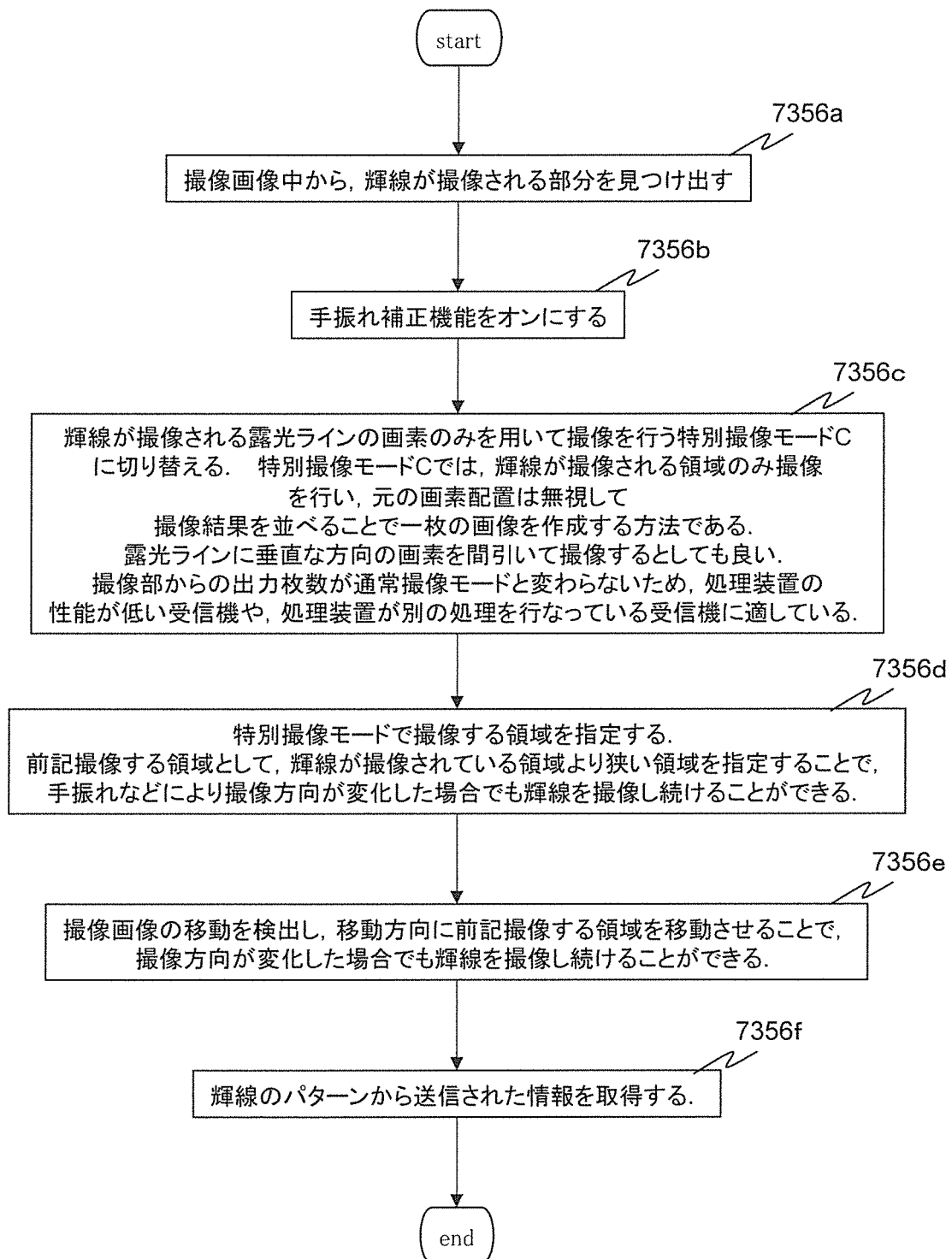
[図329B]



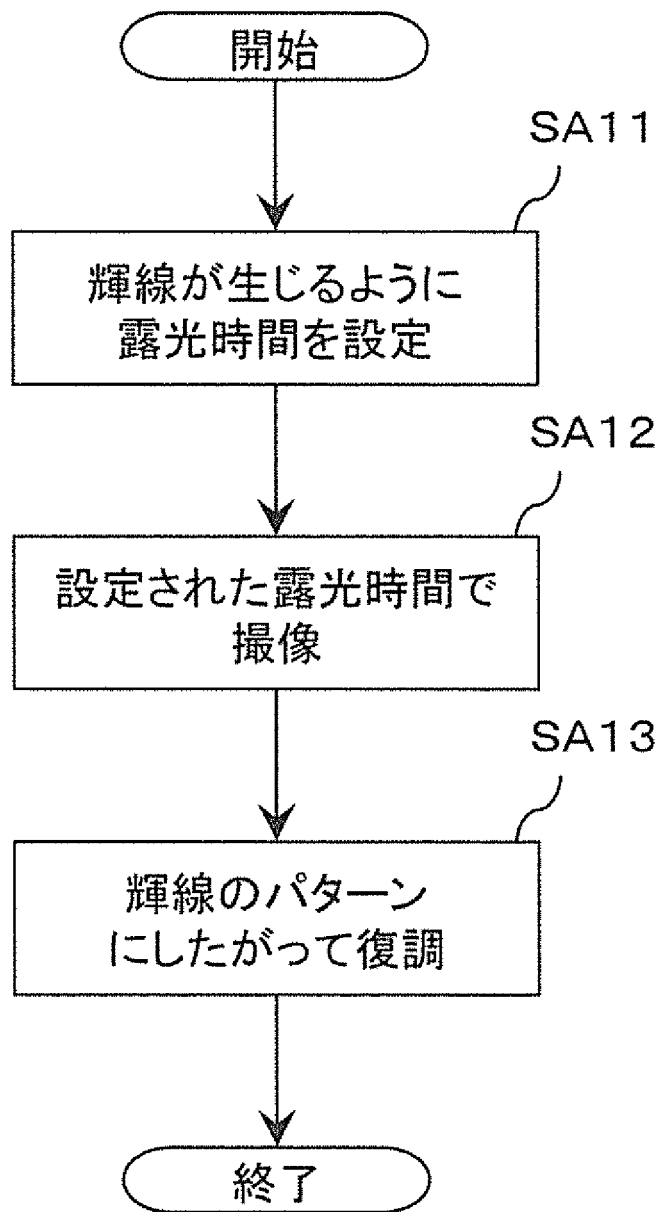
[図330A]



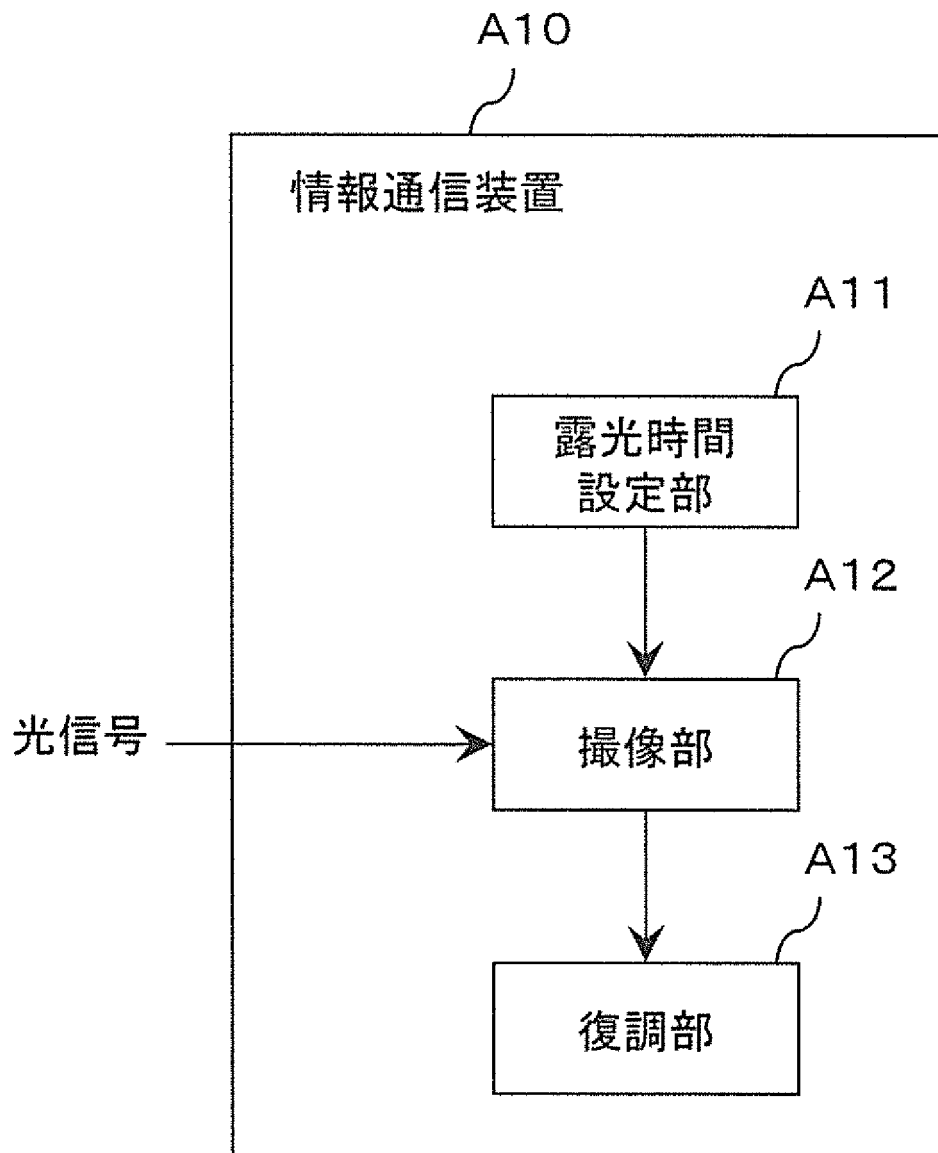
[図330B]



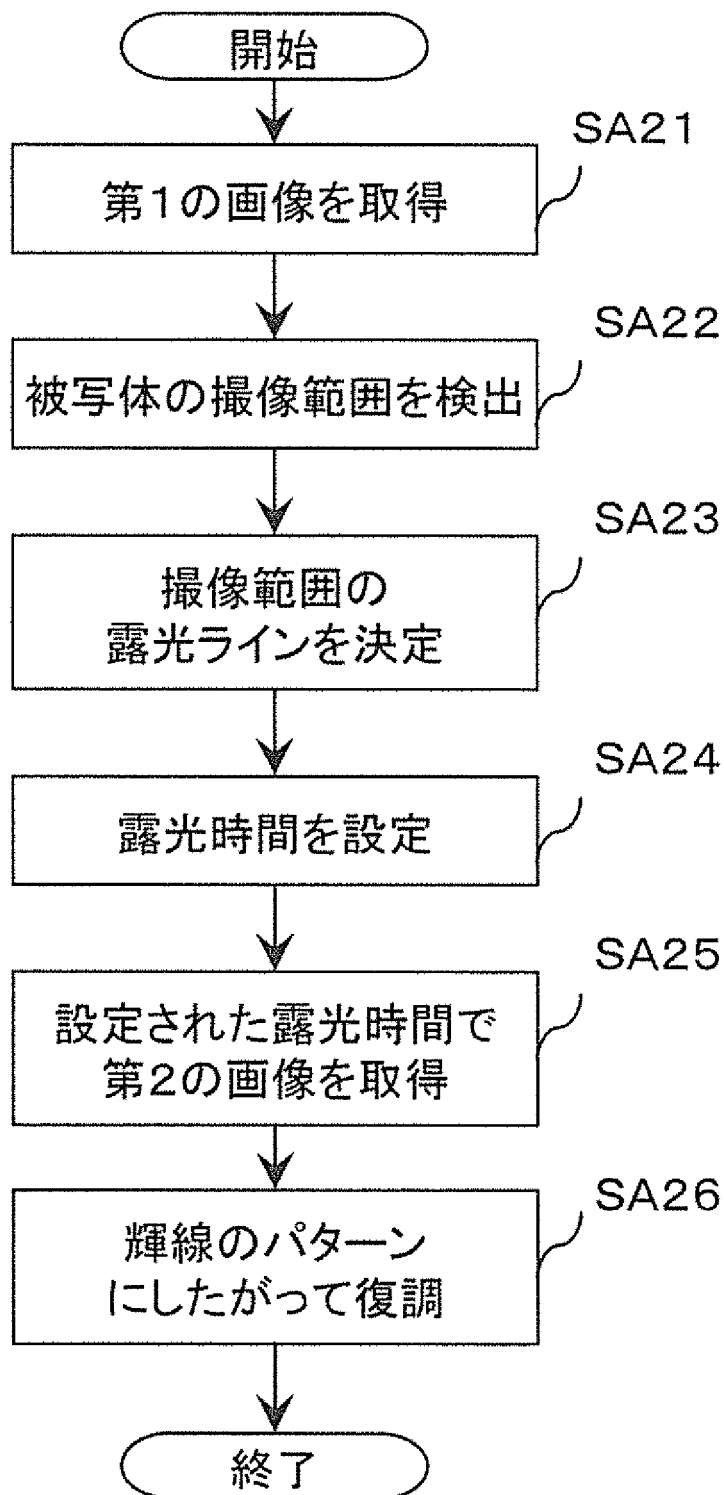
[図331A]



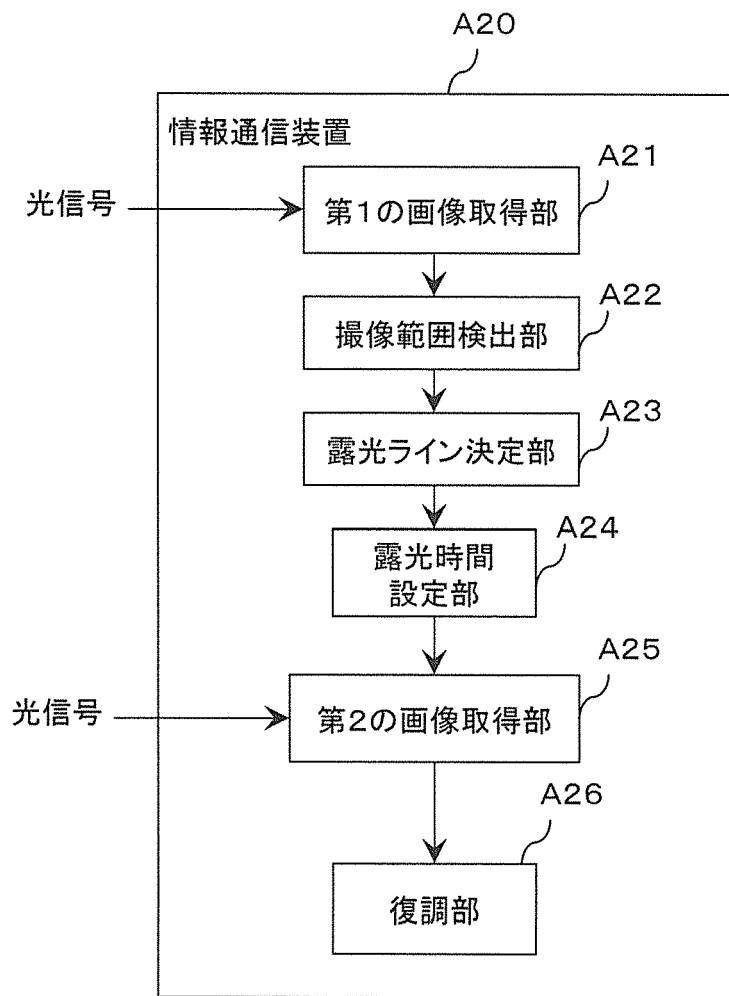
[図331B]



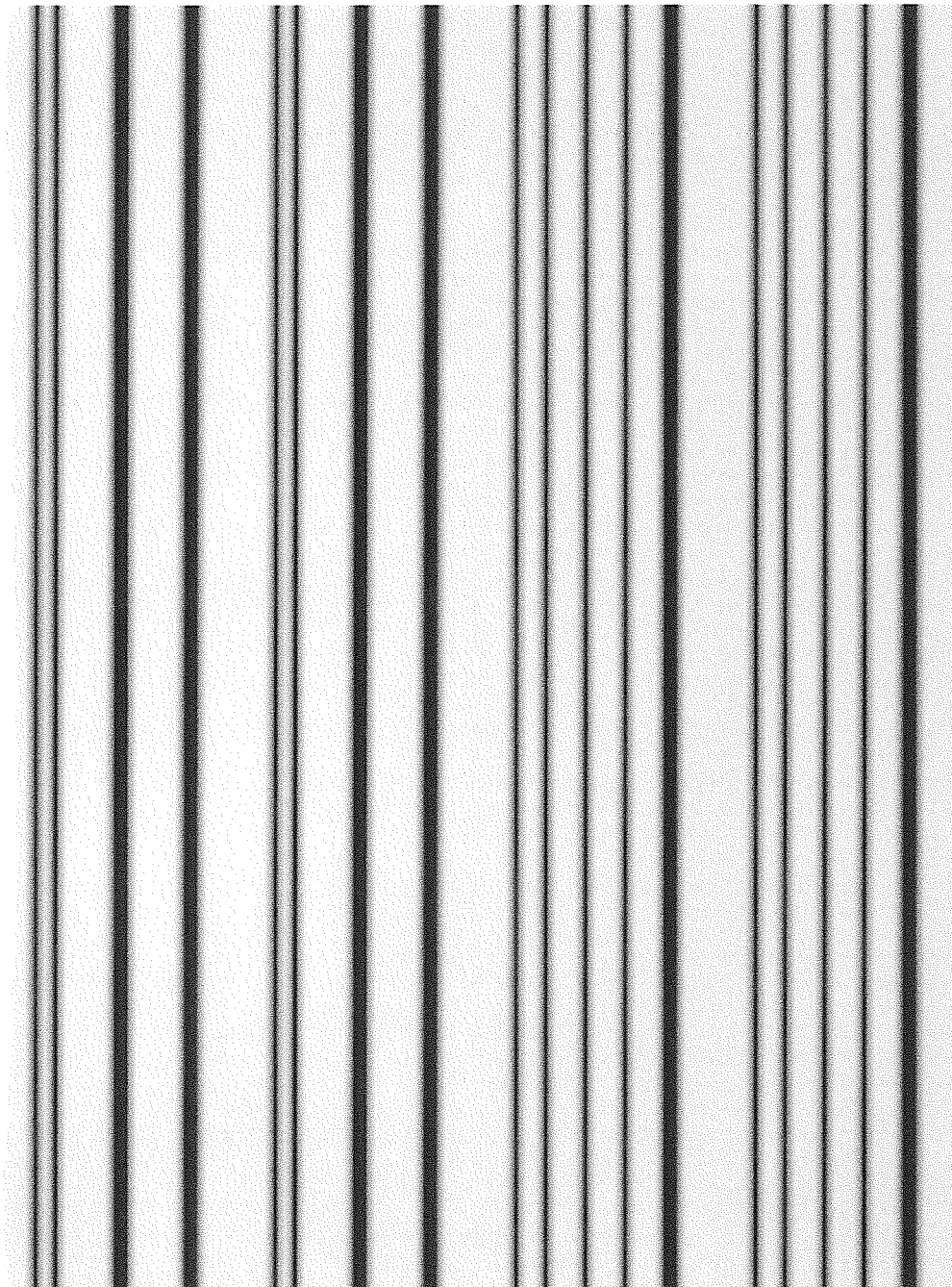
[図331C]



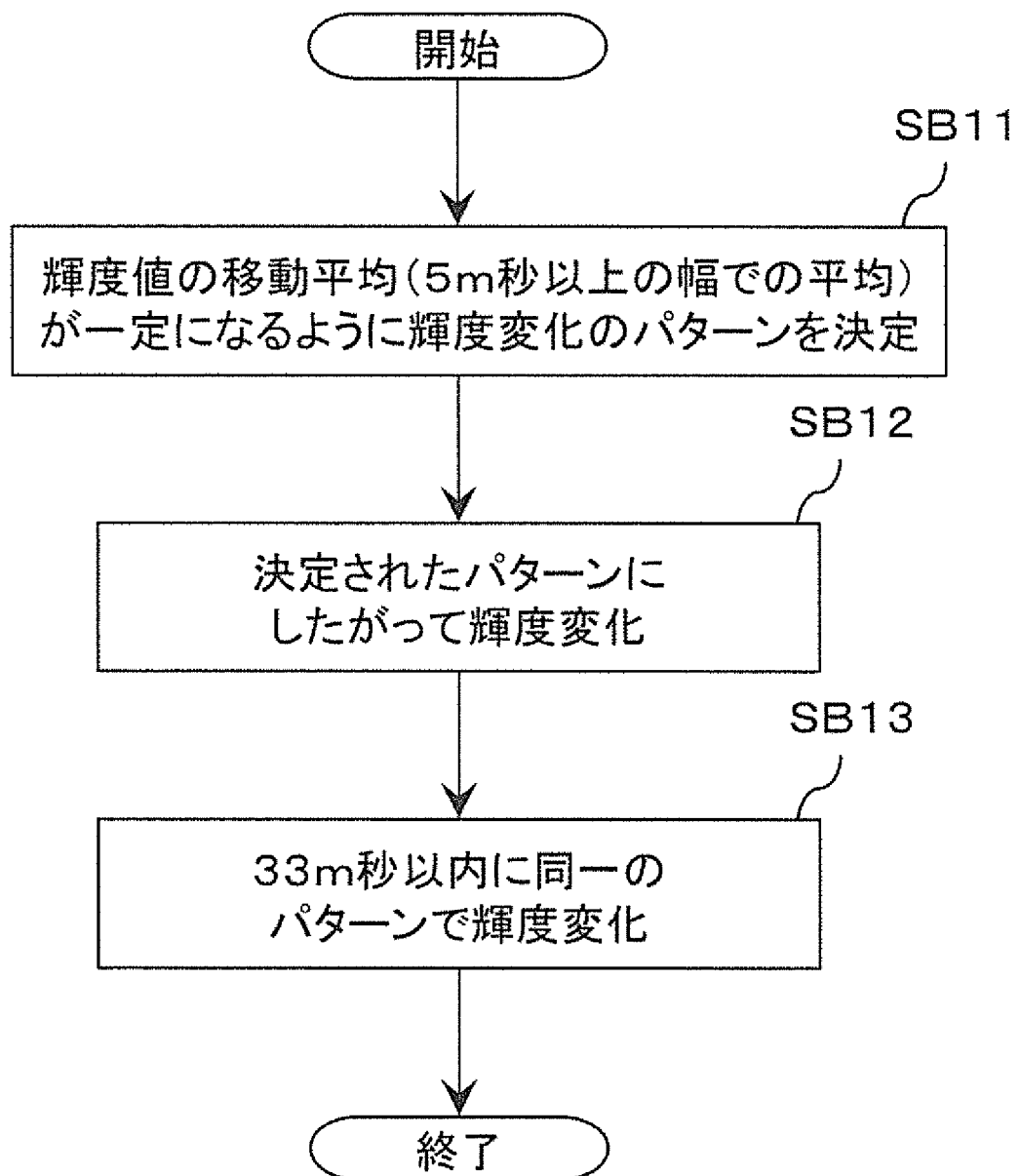
[図331D]



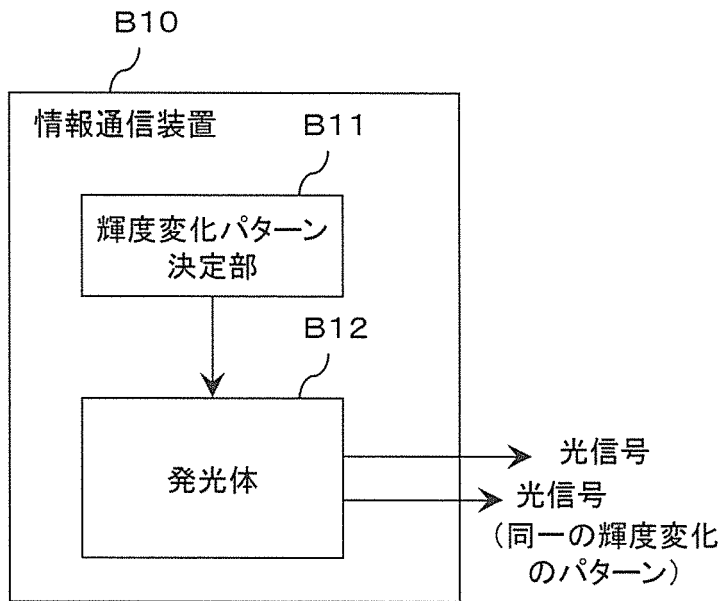
[図332]



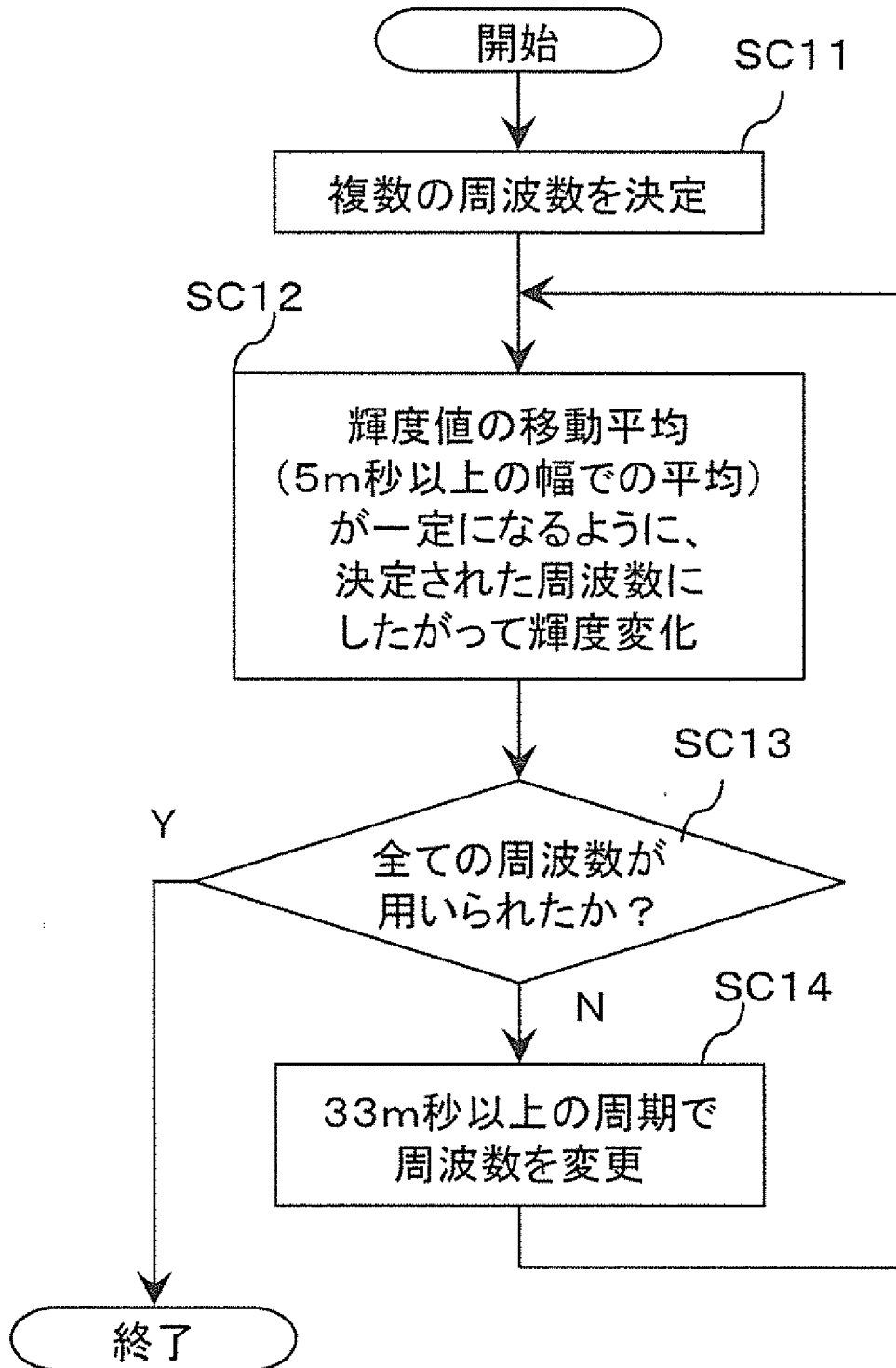
[図333A]



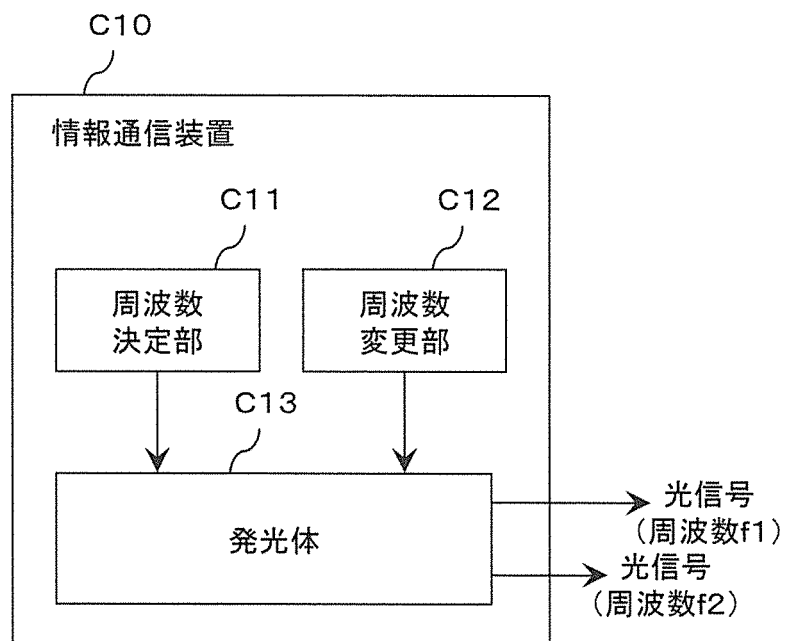
[図333B]



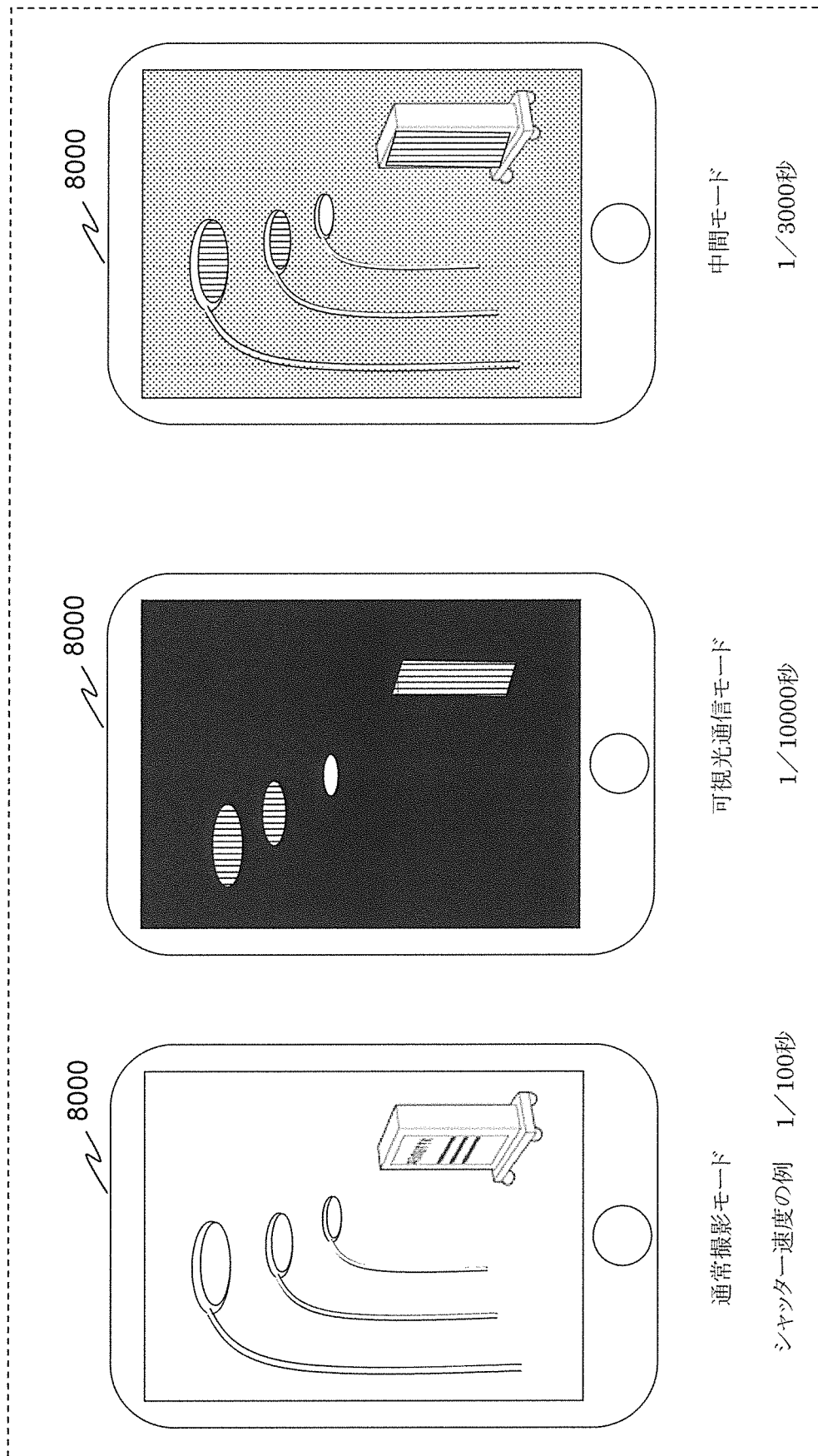
[図334A]



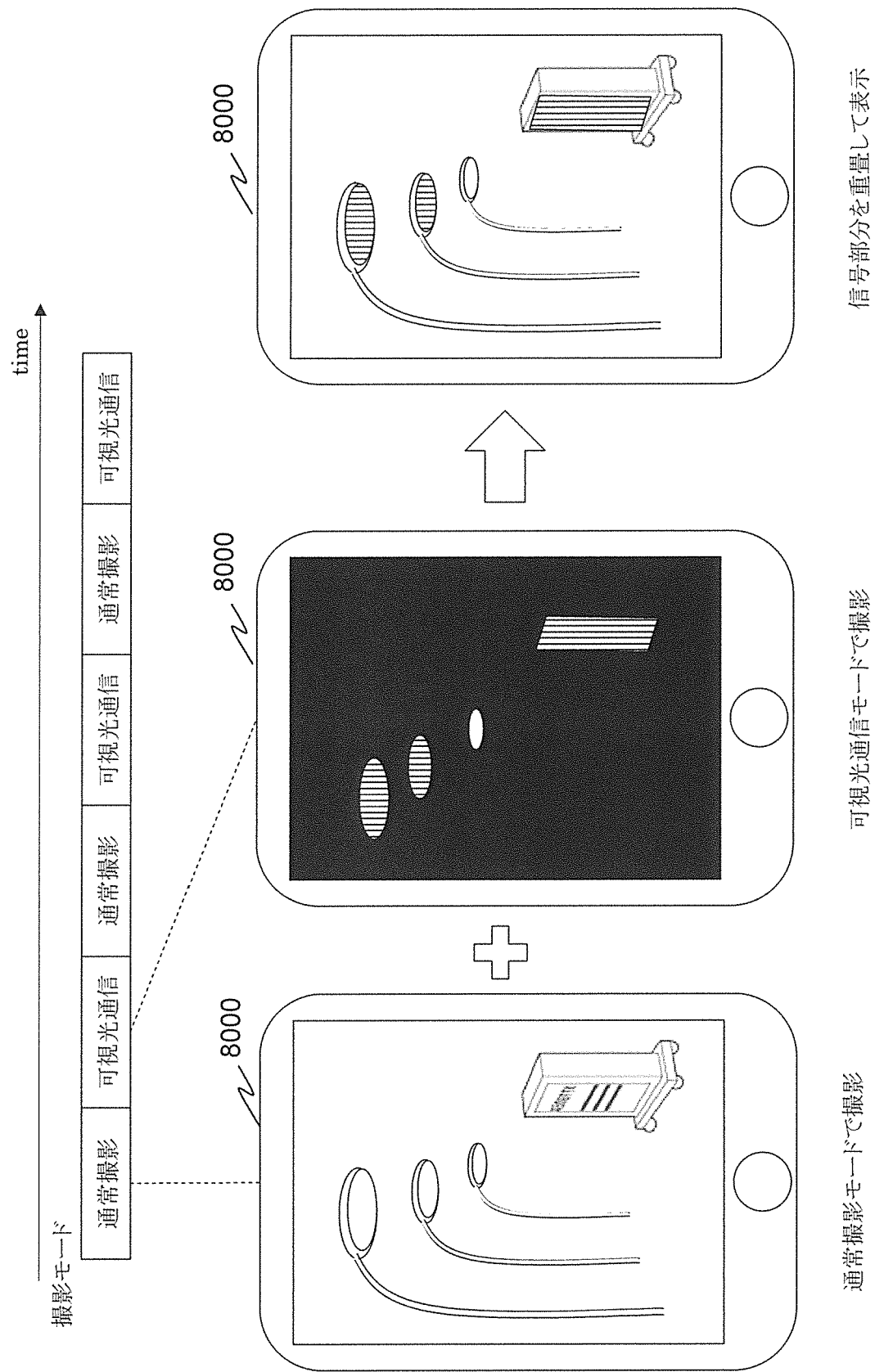
[図334B]



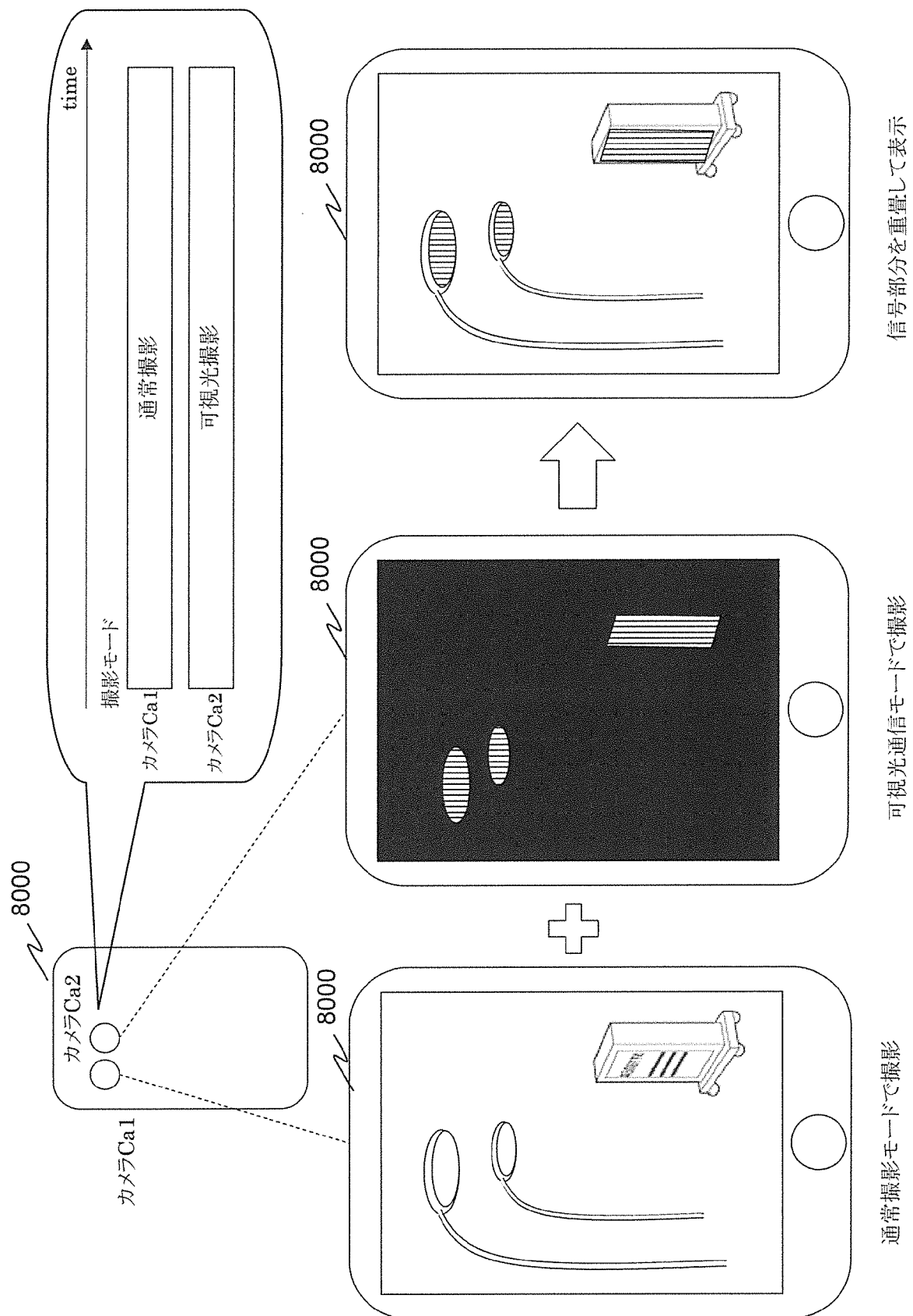
[図335]



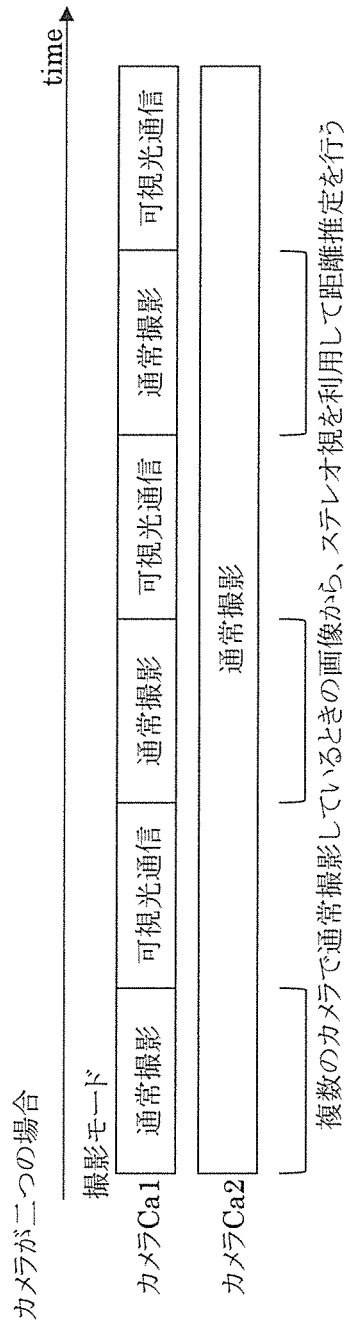
[図336]



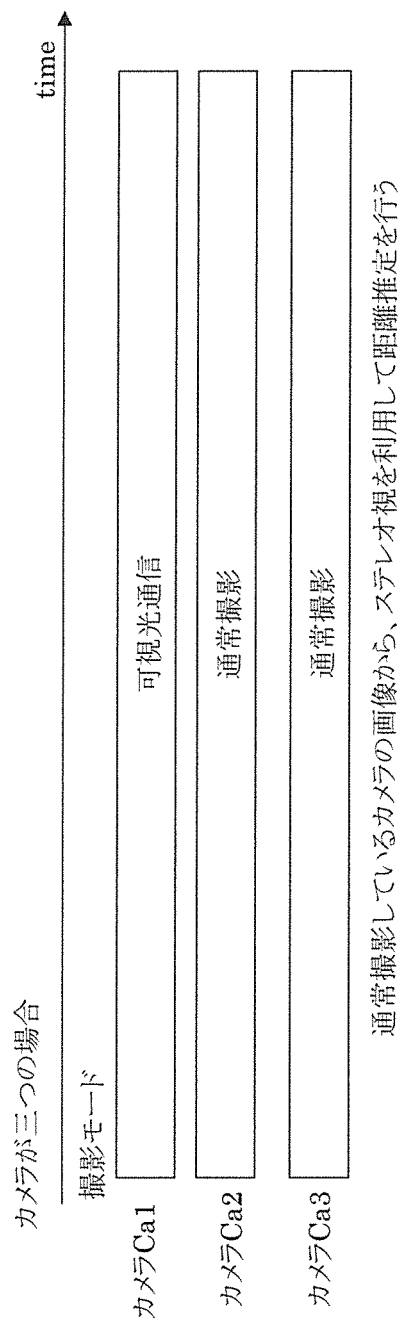
[図337]



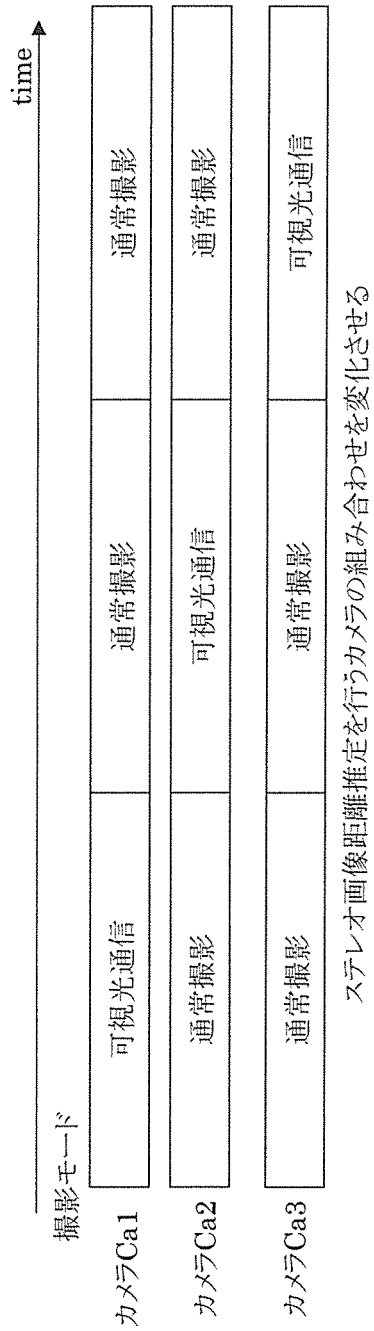
[図338A]



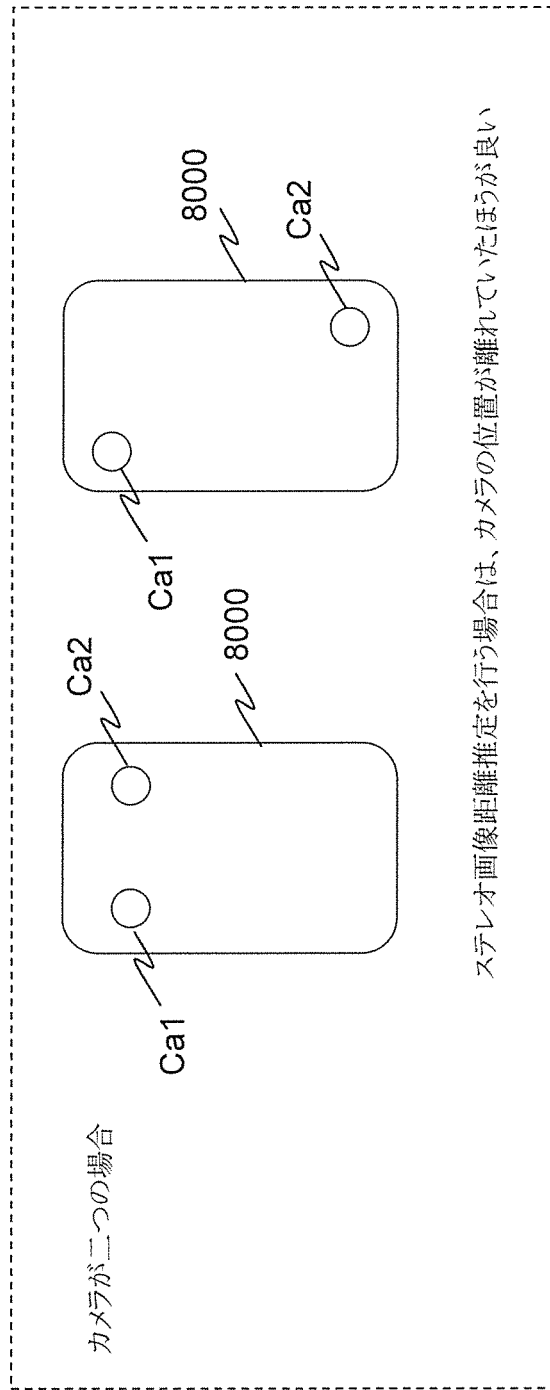
[図338B]



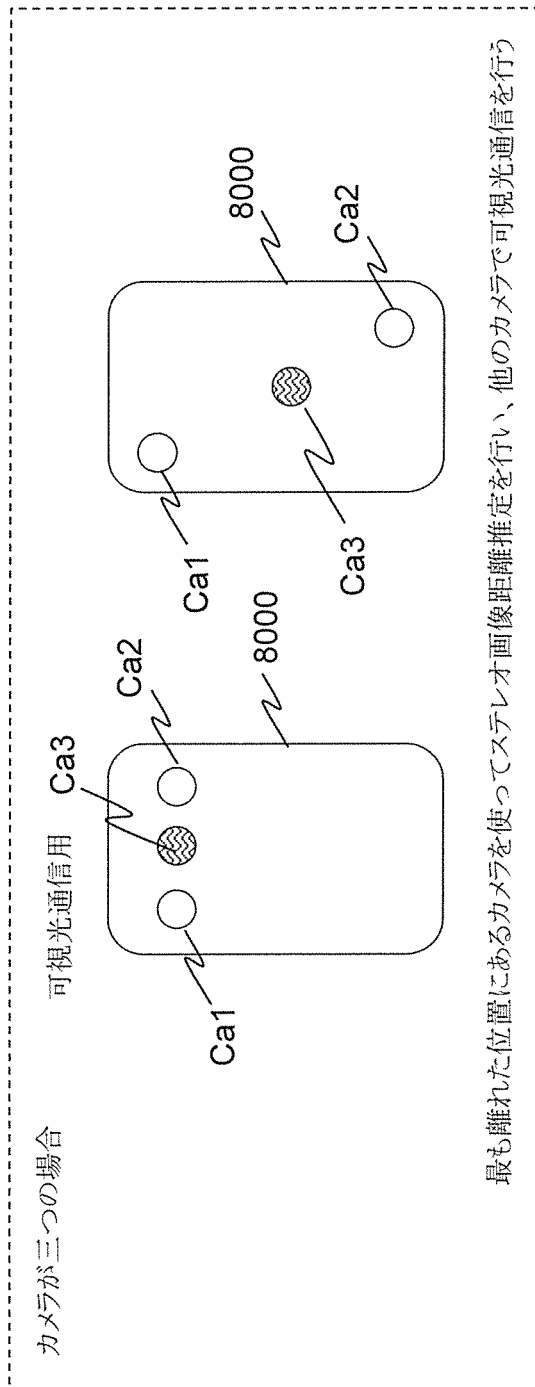
[図338C]



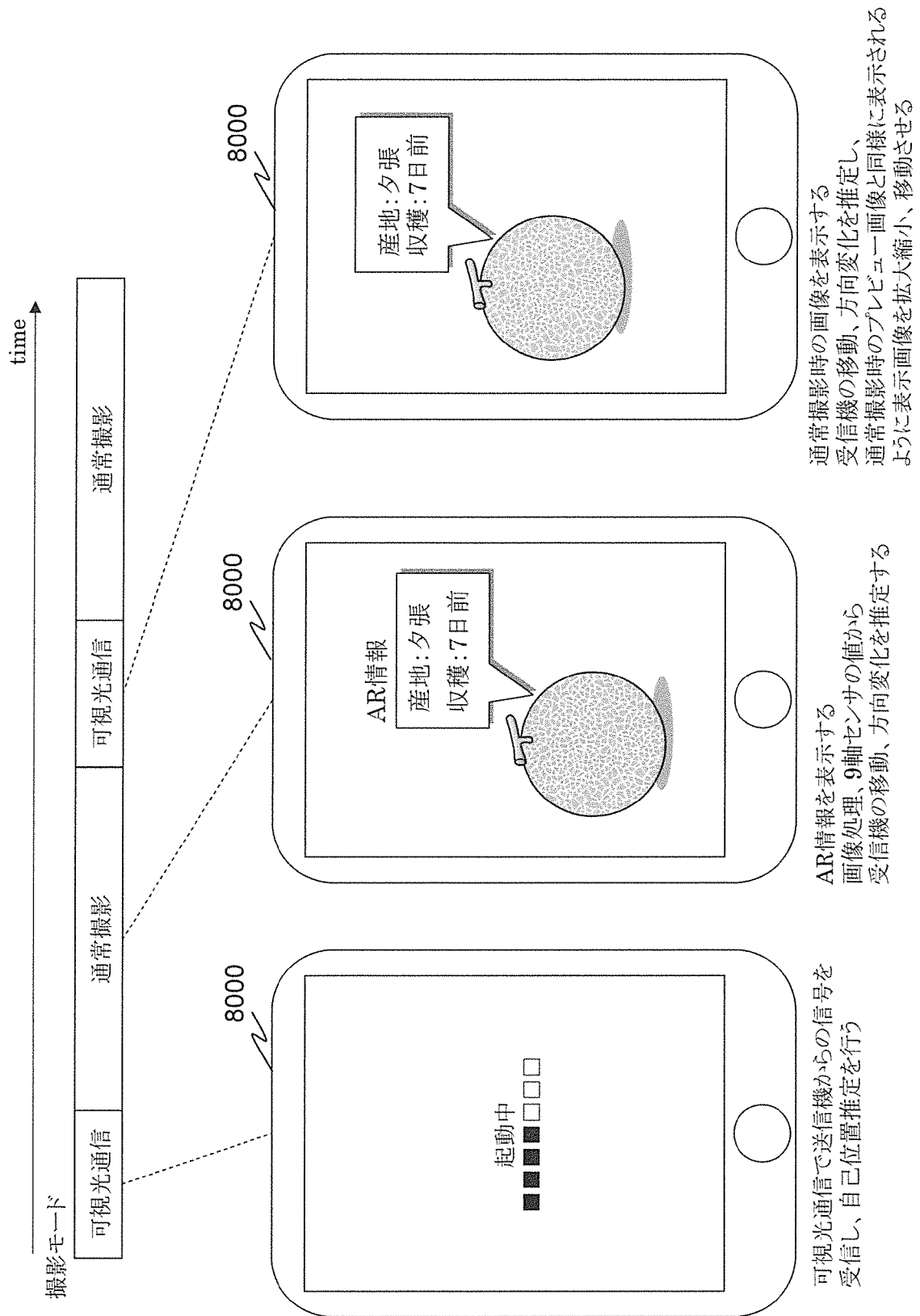
[図339A]



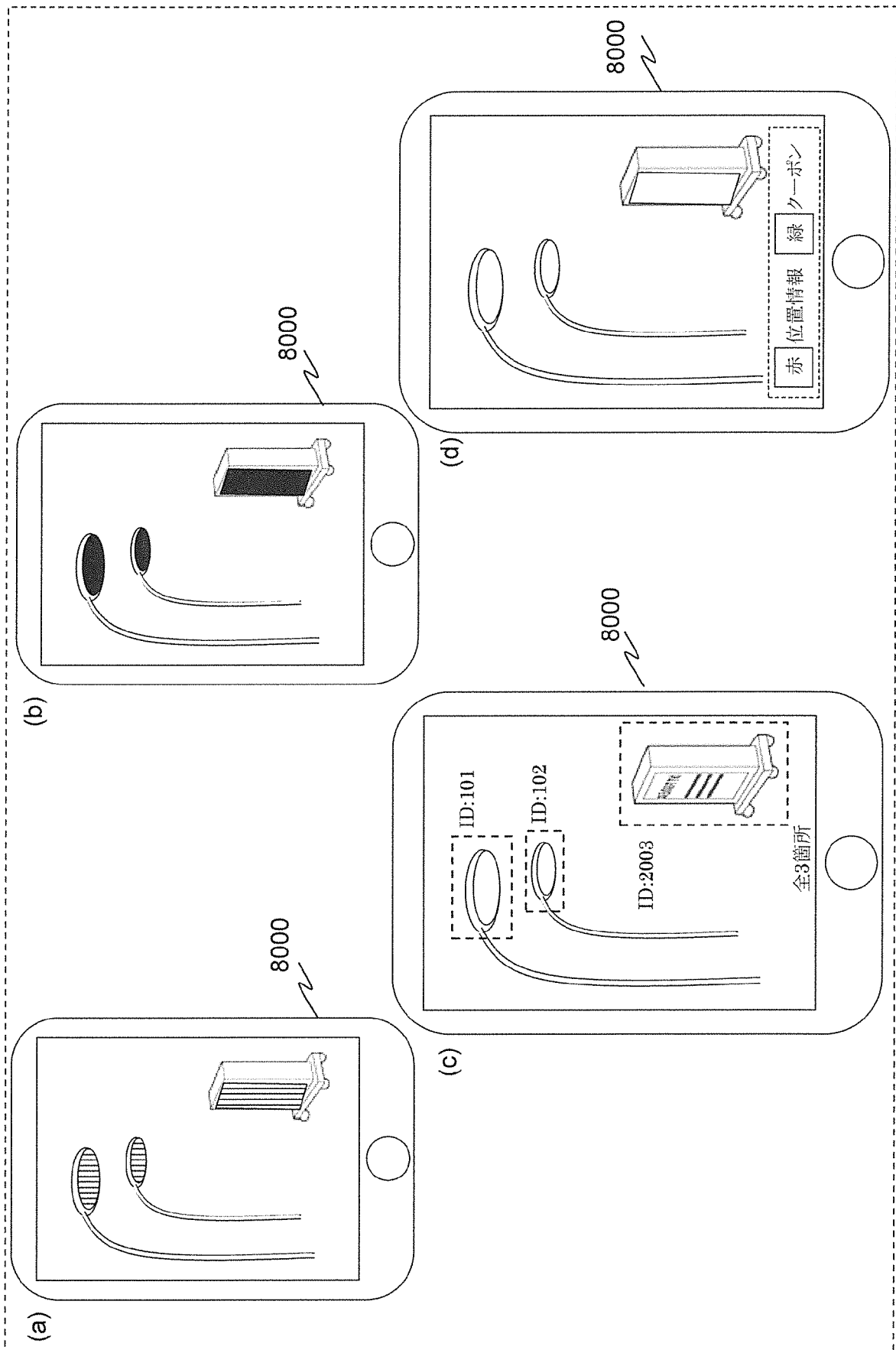
[図339B]



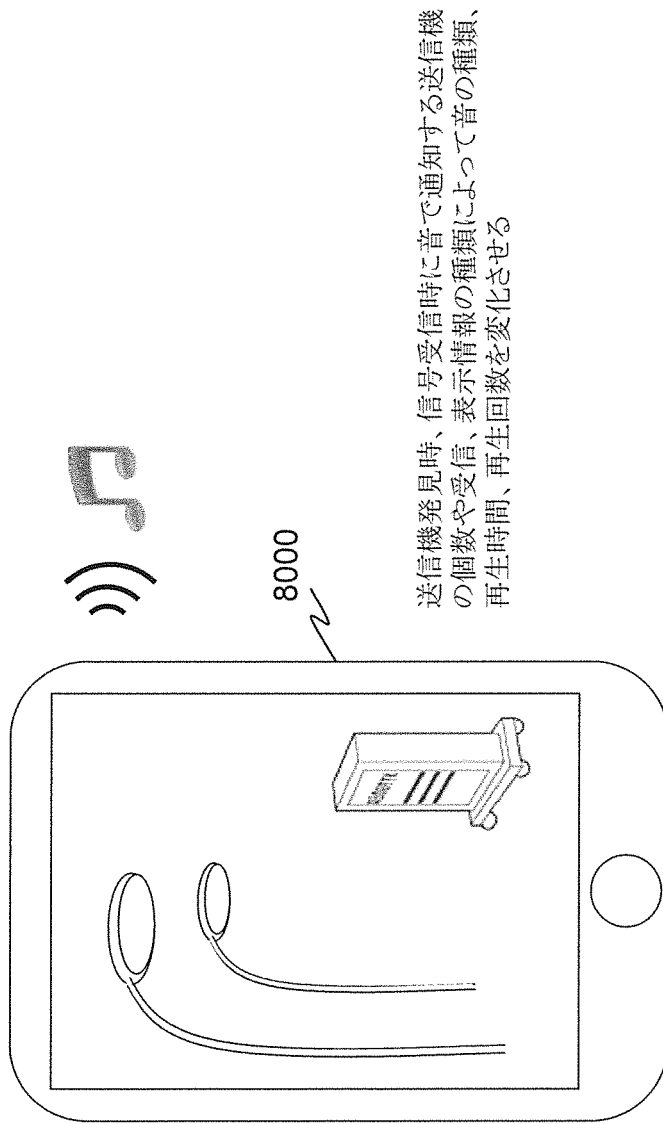
[図340]



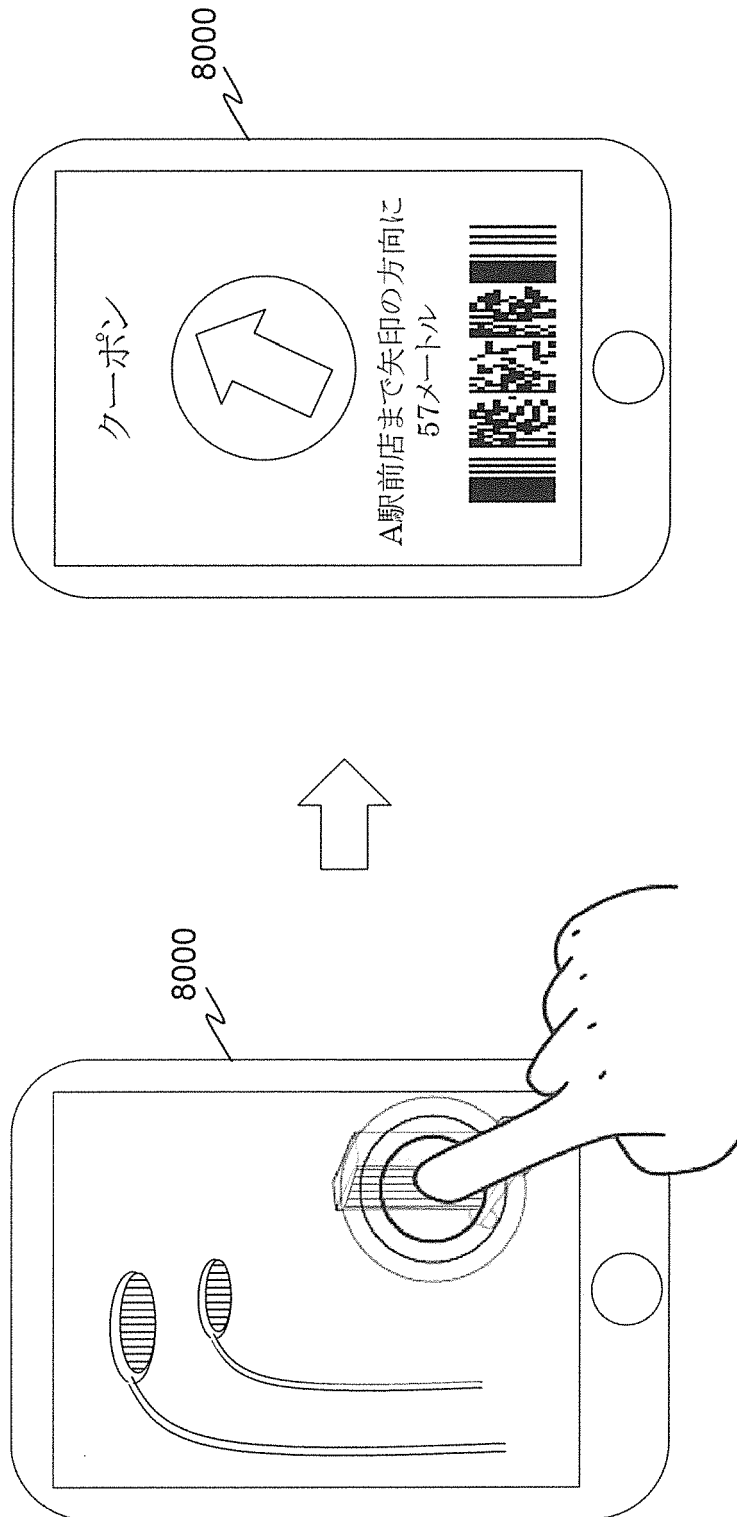
[図341]



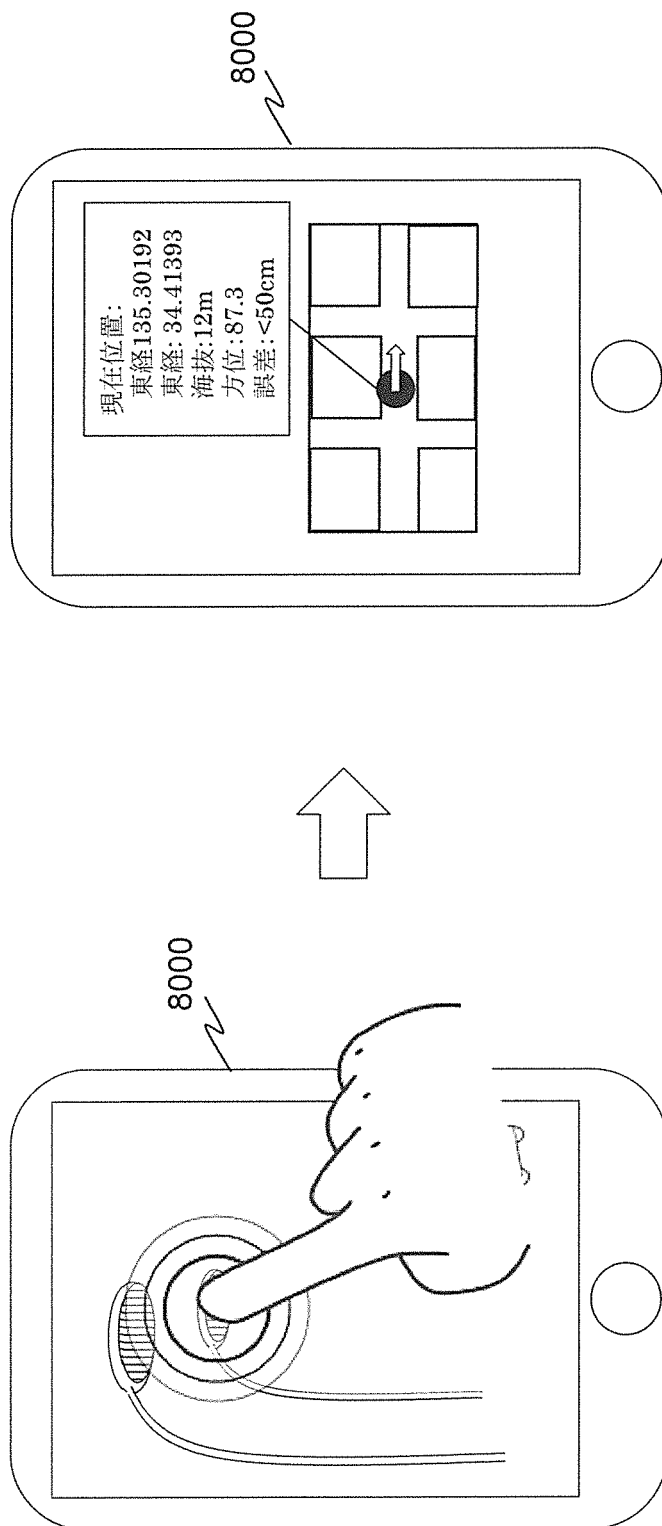
[図342]



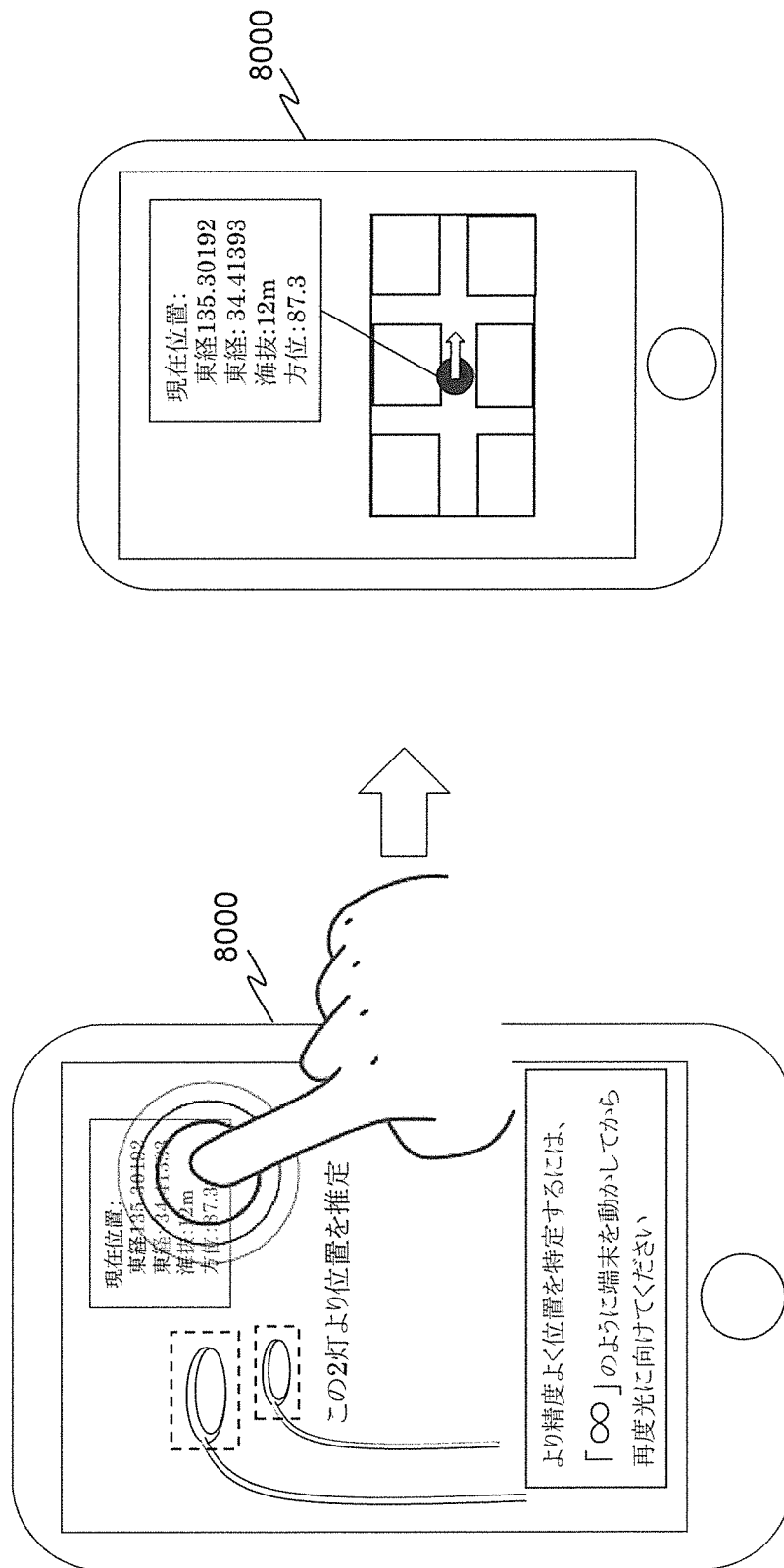
[図343]



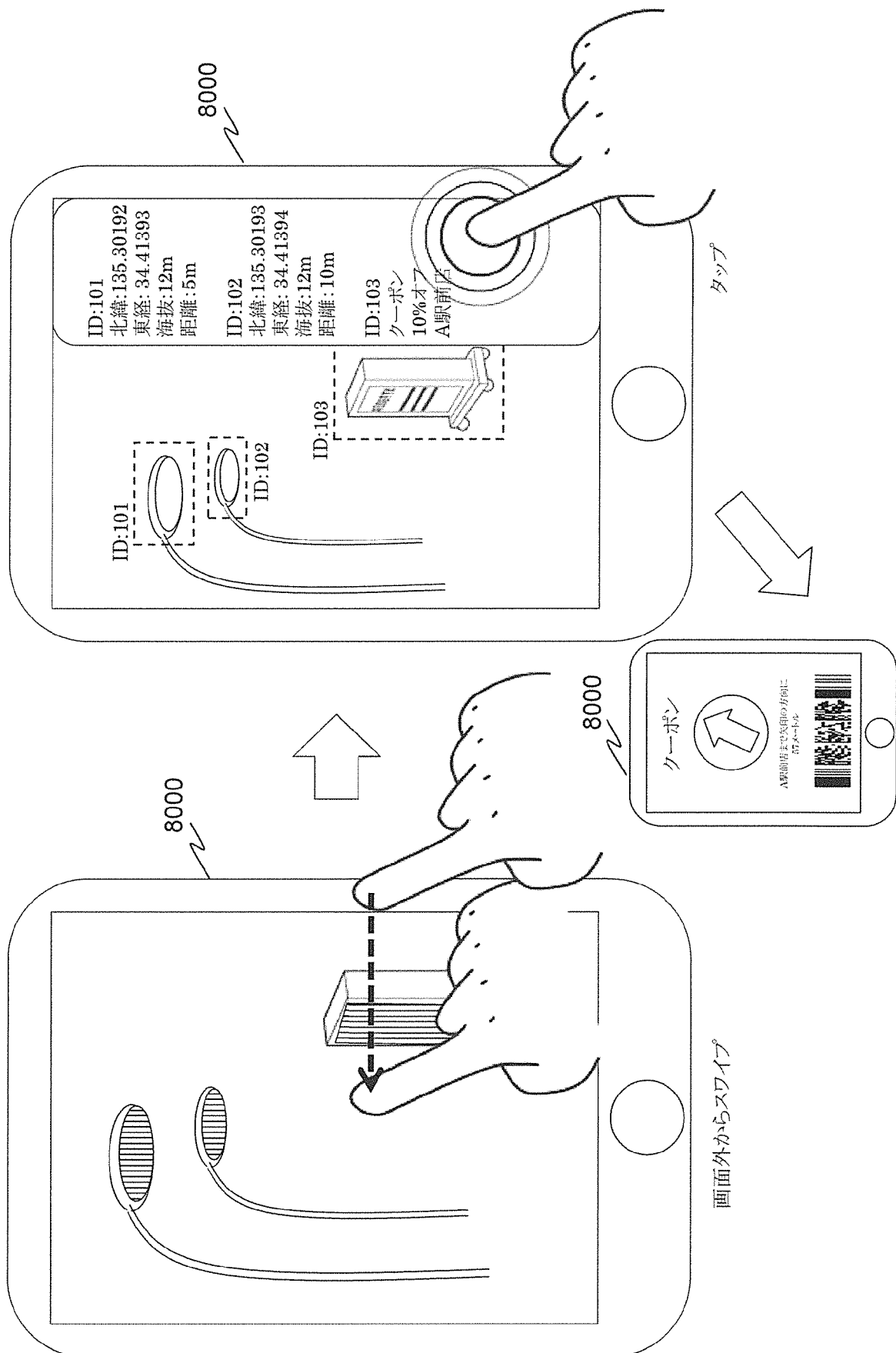
[図344]



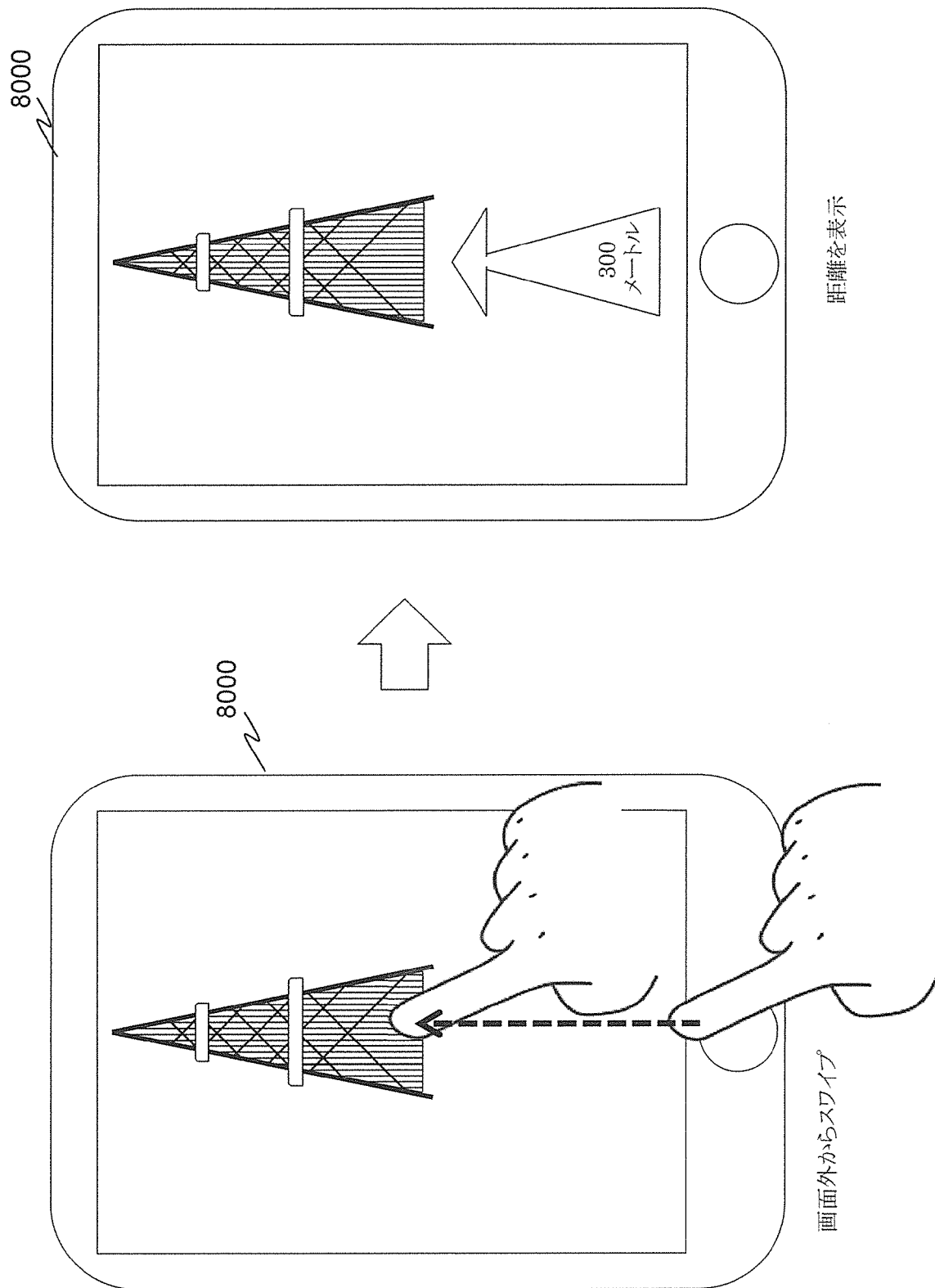
[図345]



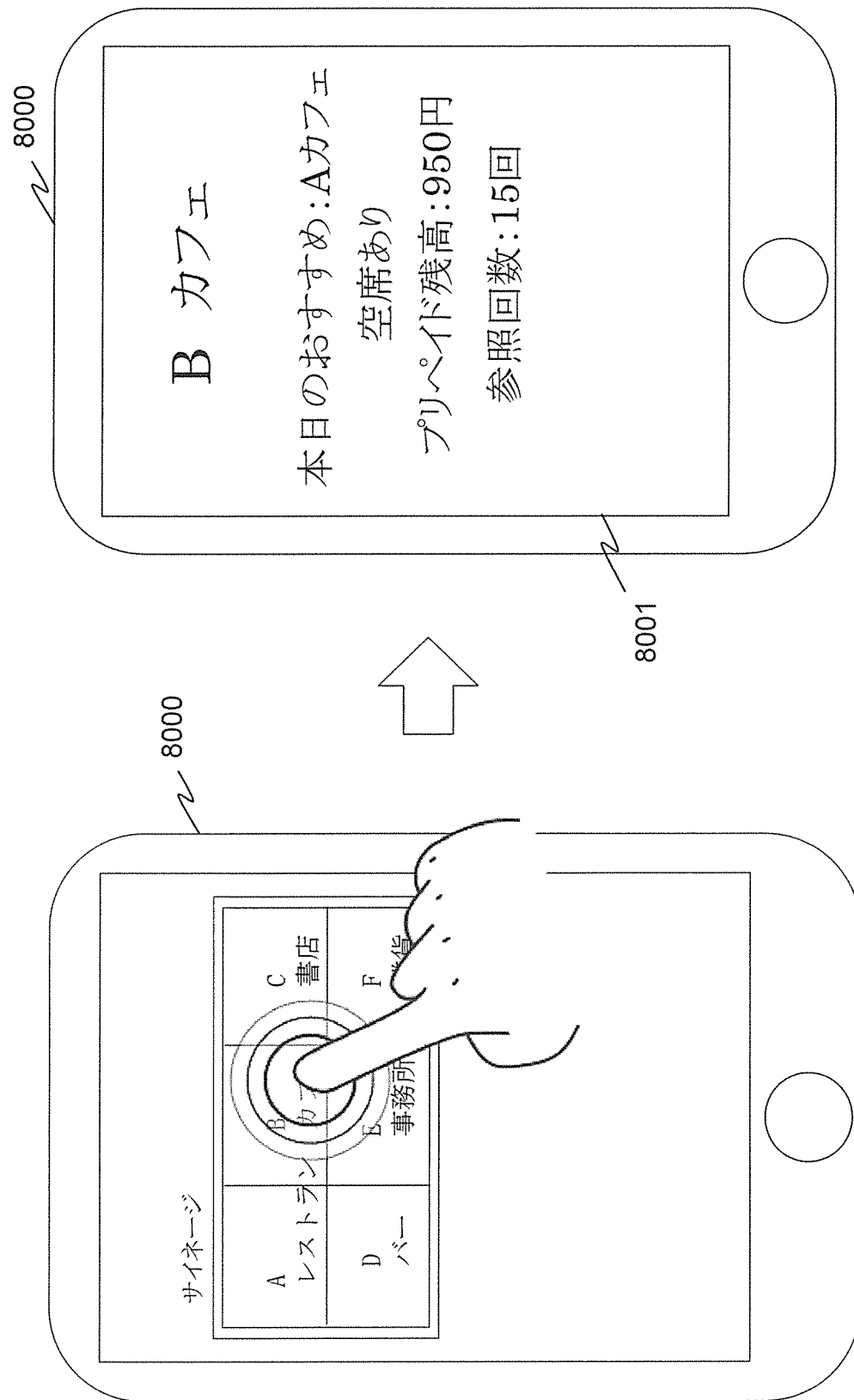
[図346]



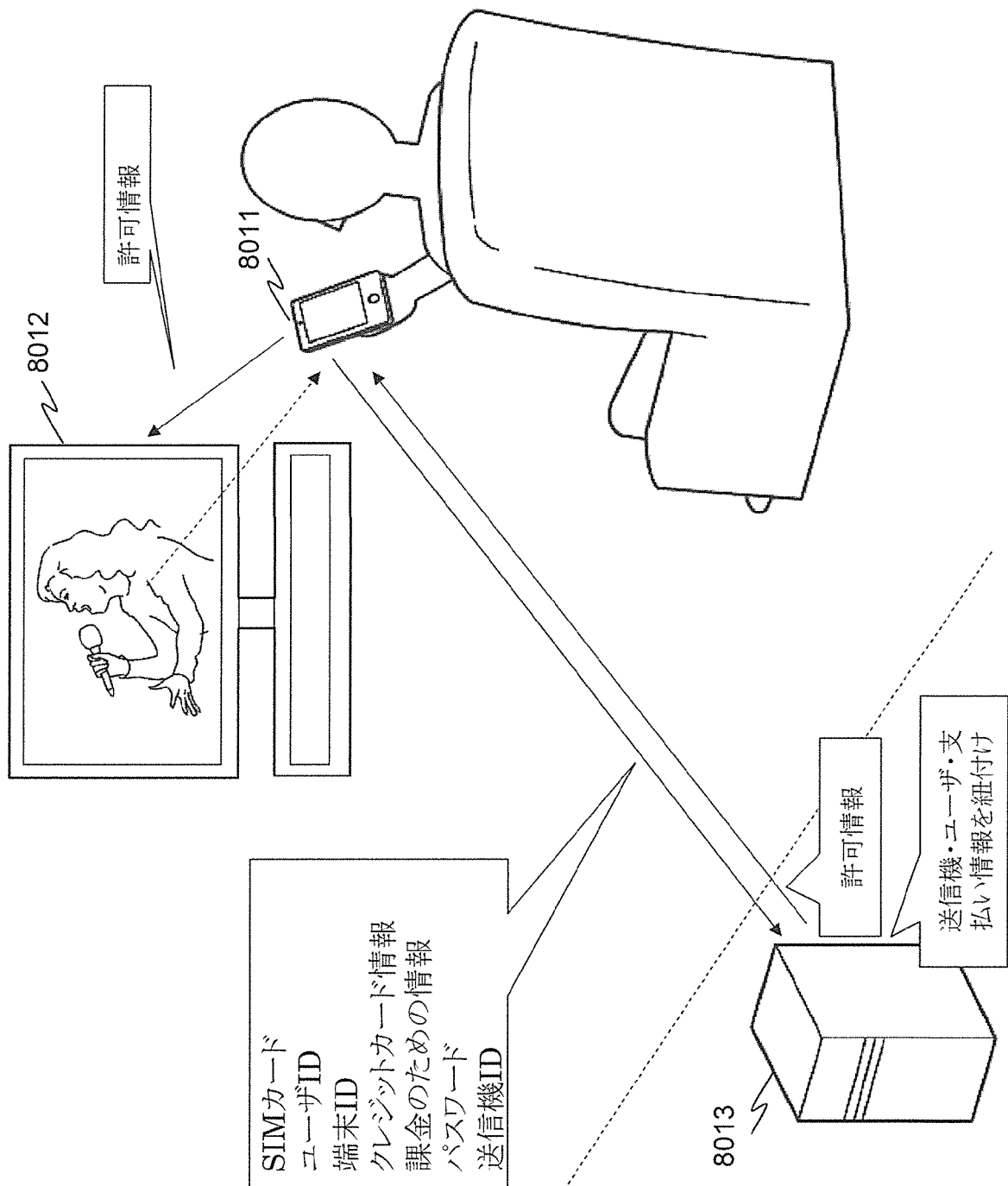
[図347]



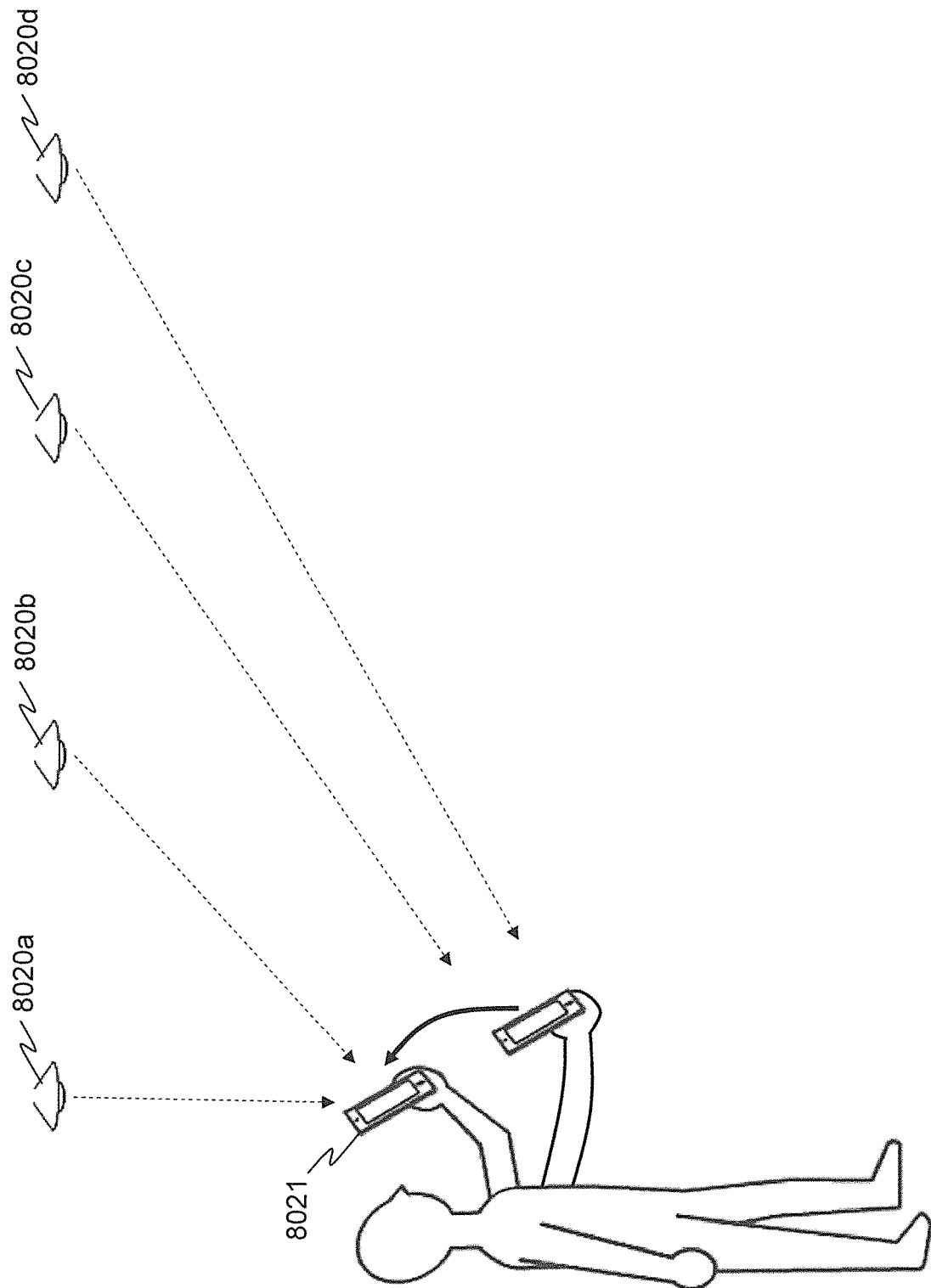
[図348]



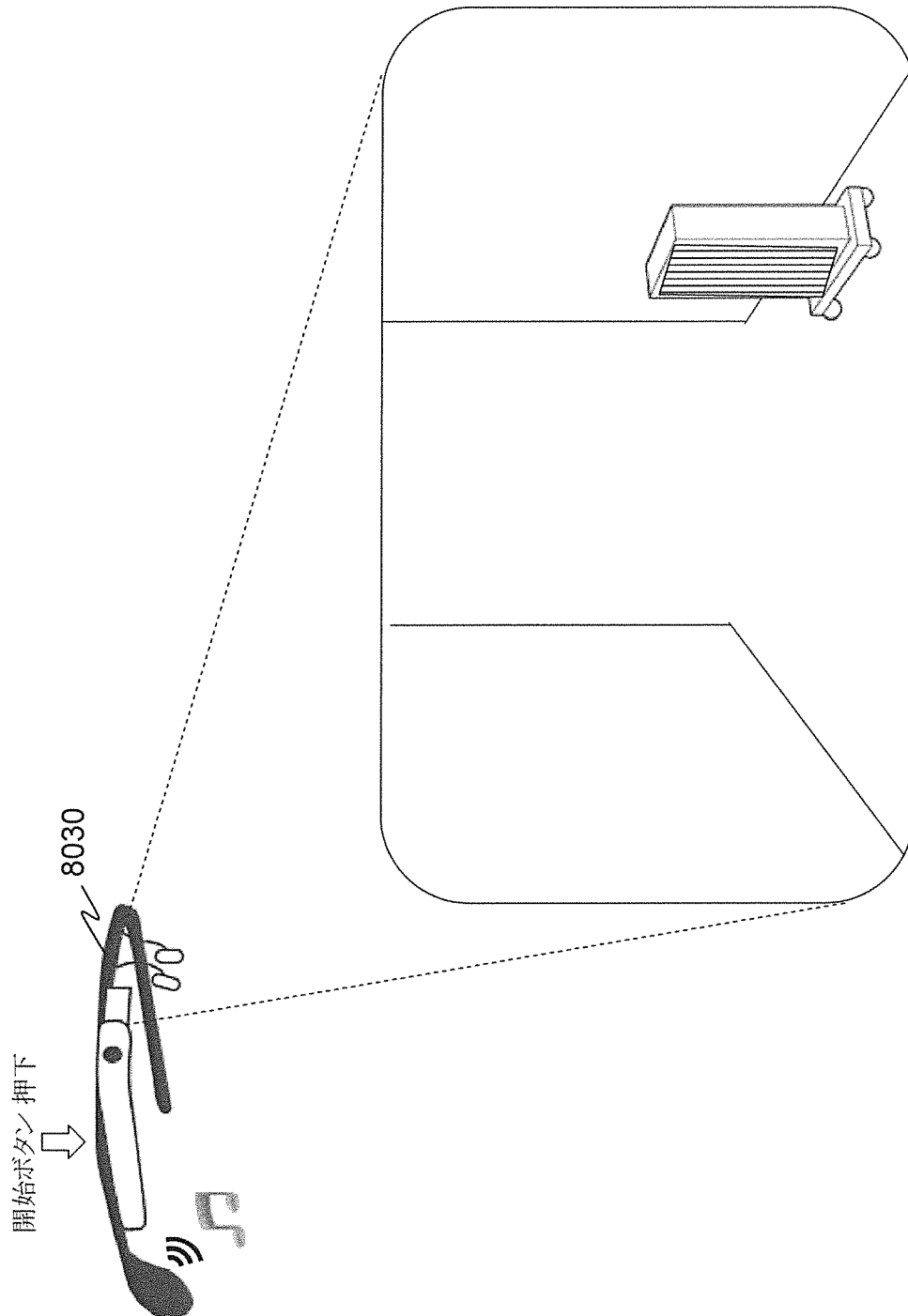
[図349]



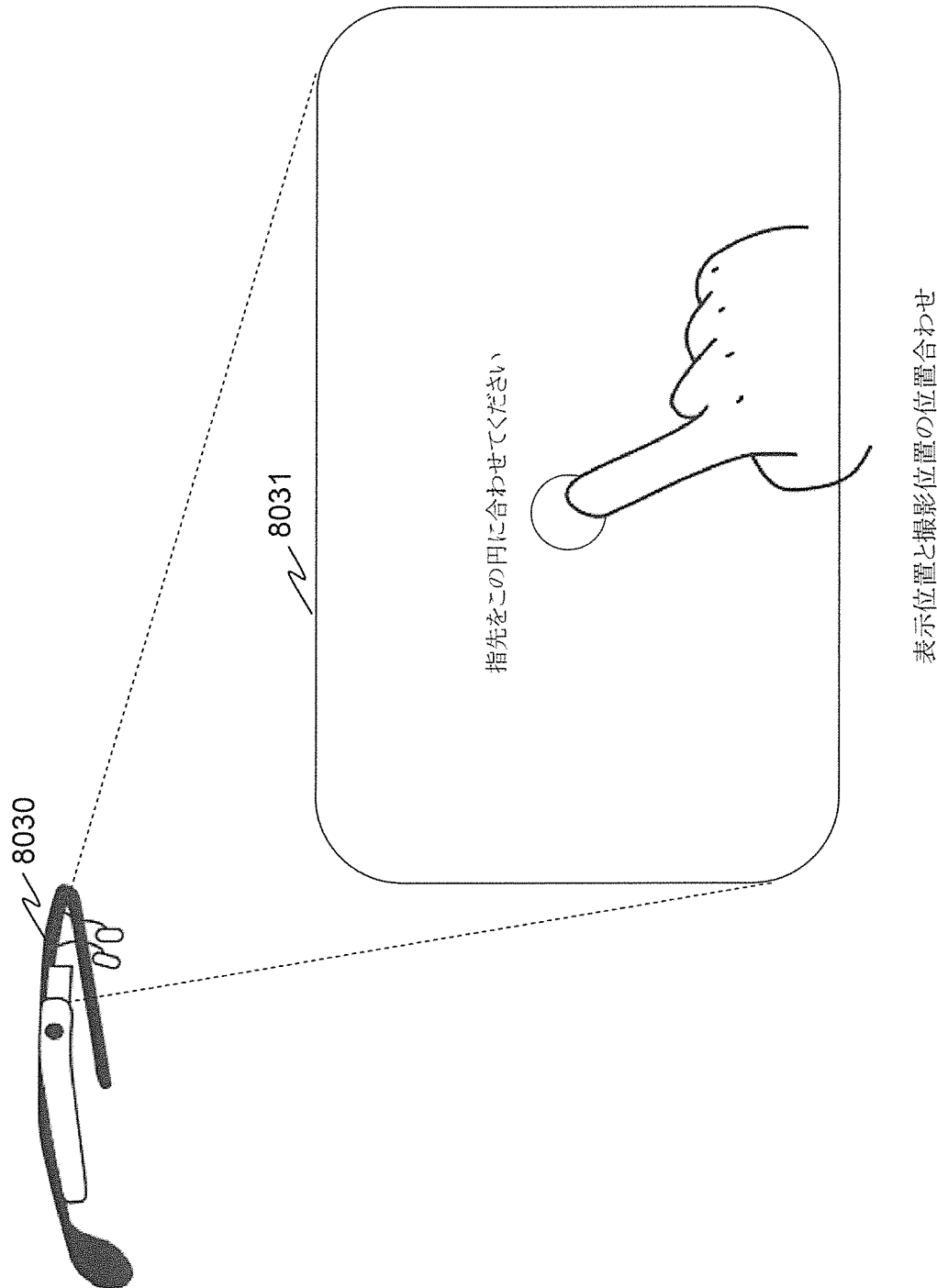
[図350]



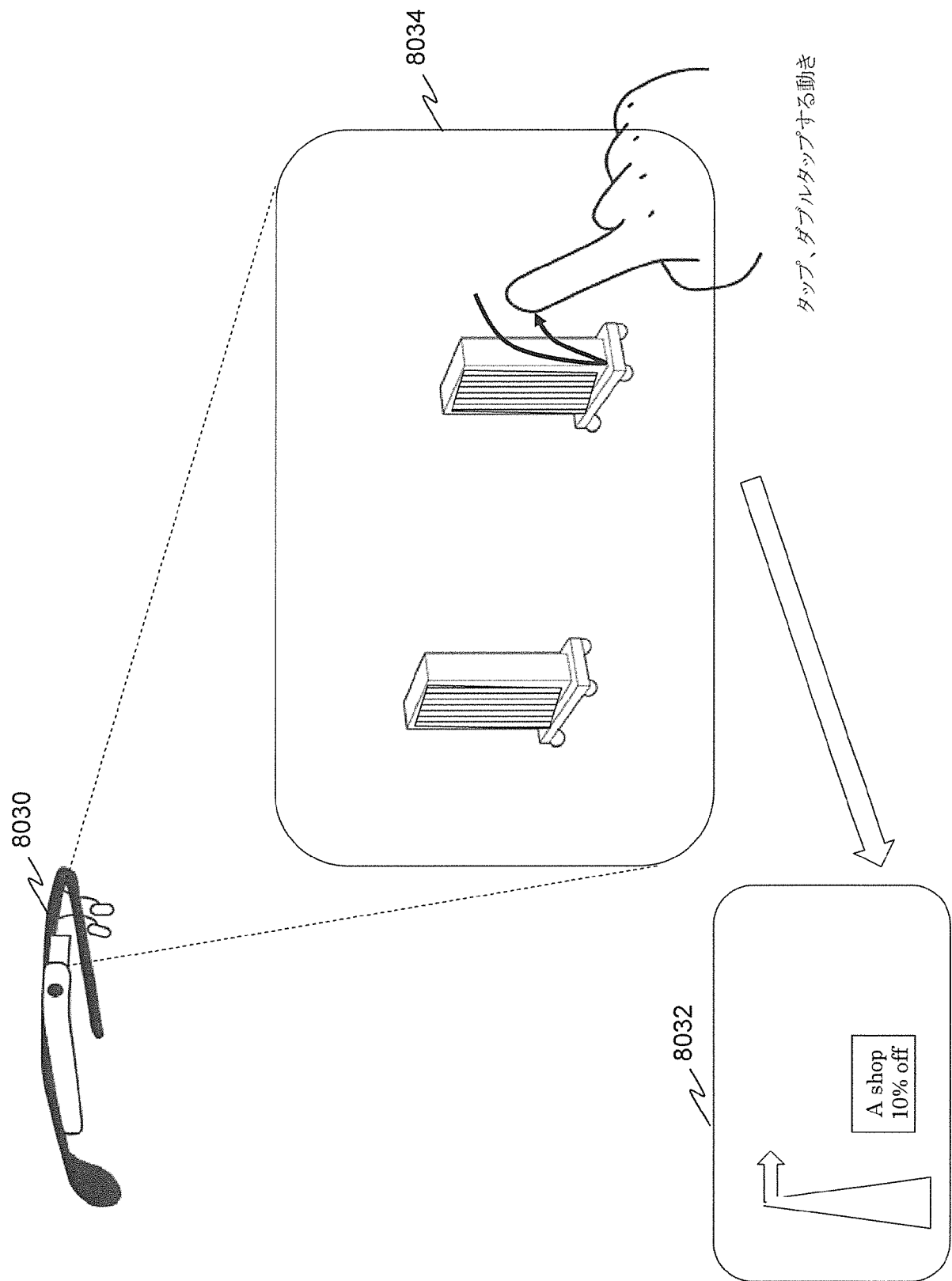
[図351]



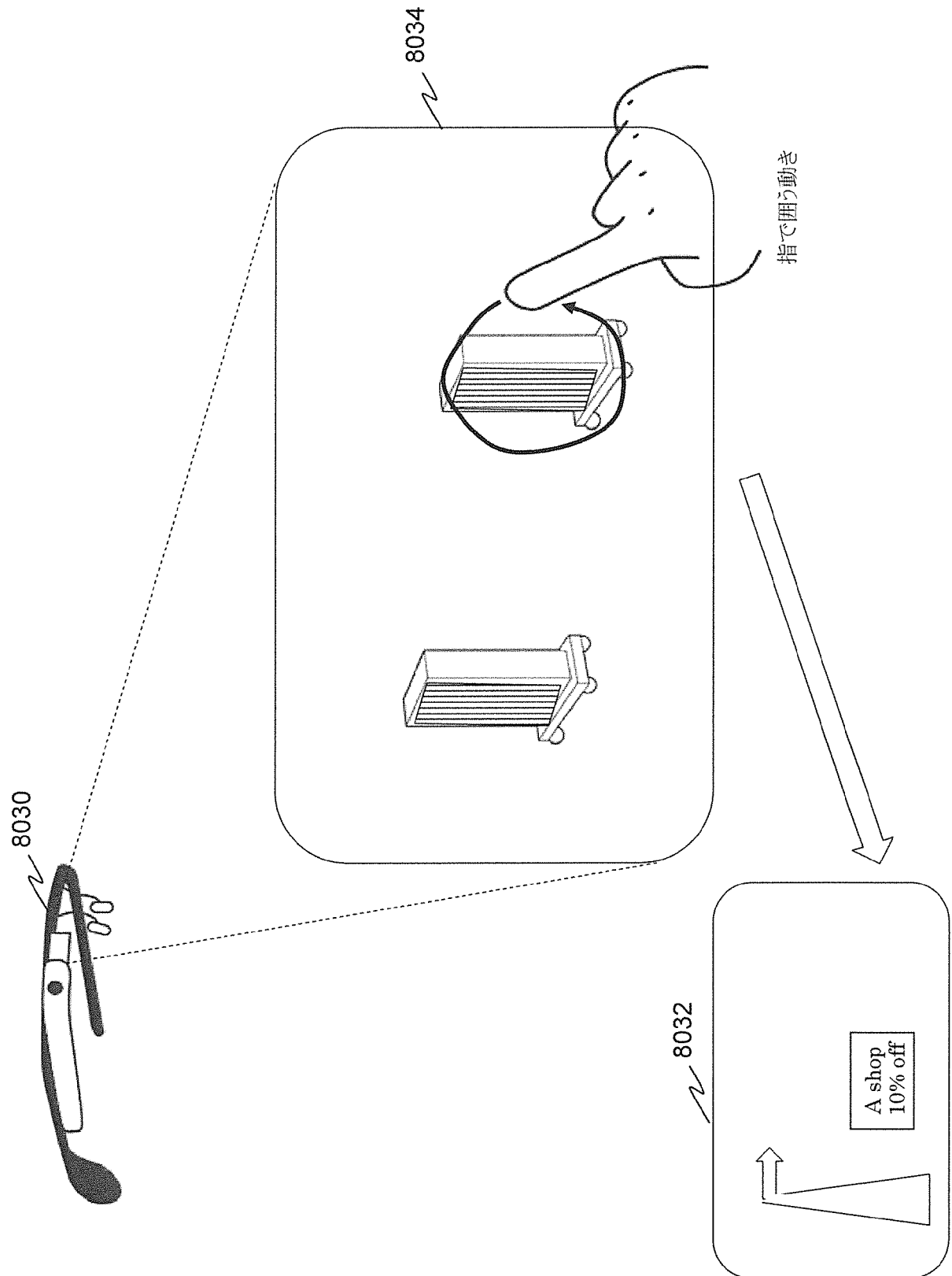
[図352]



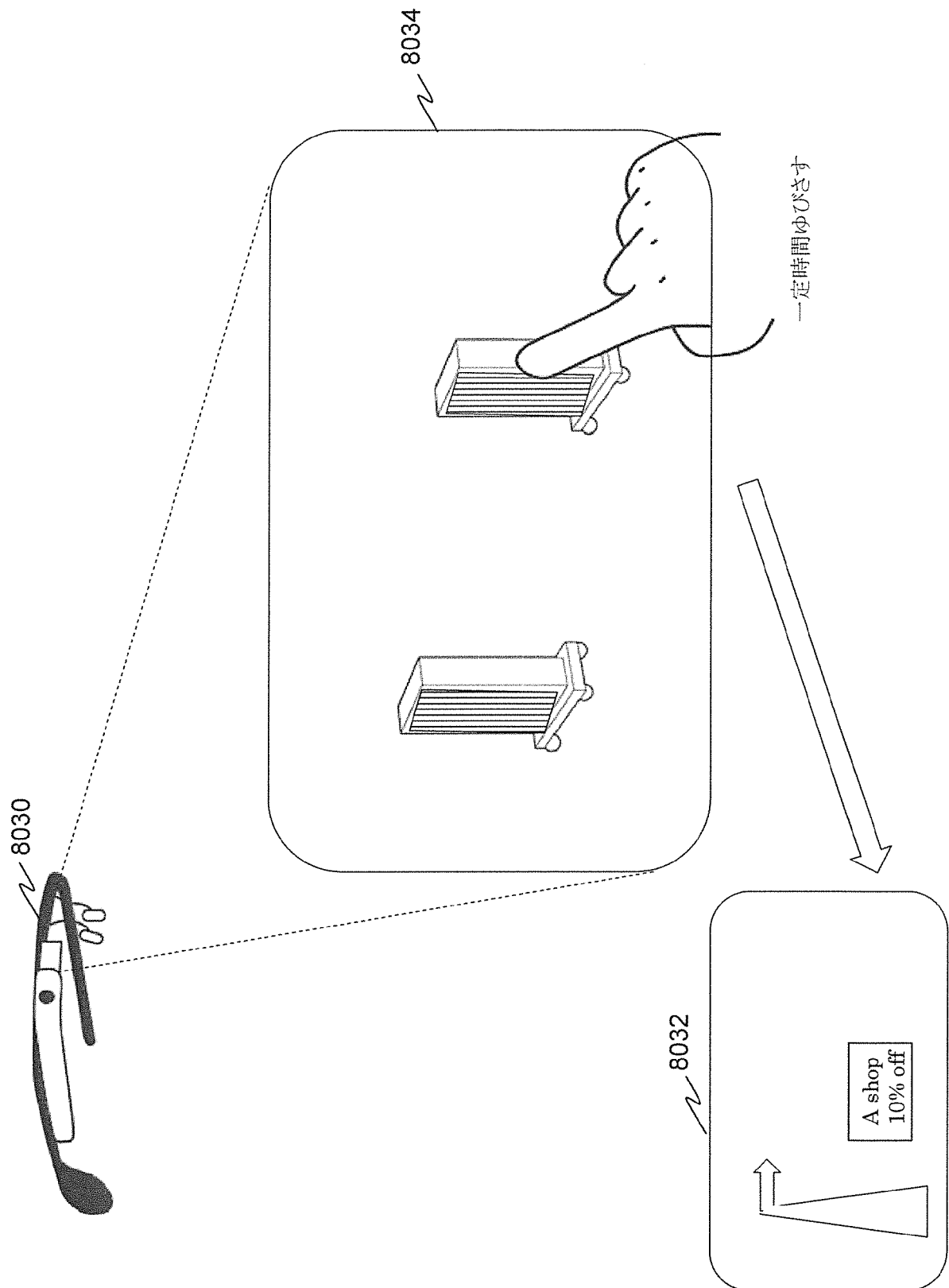
[図353]



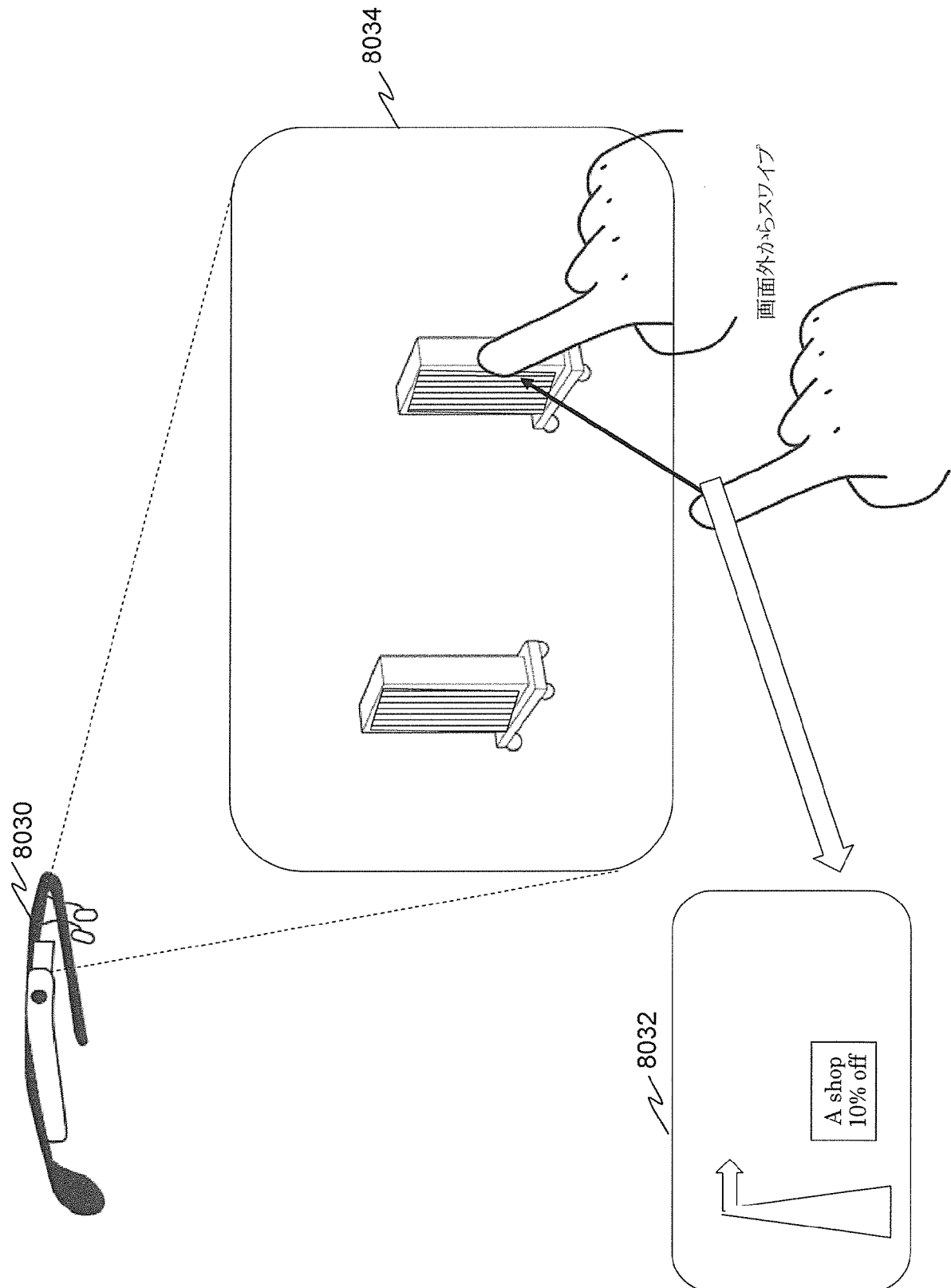
[図354]



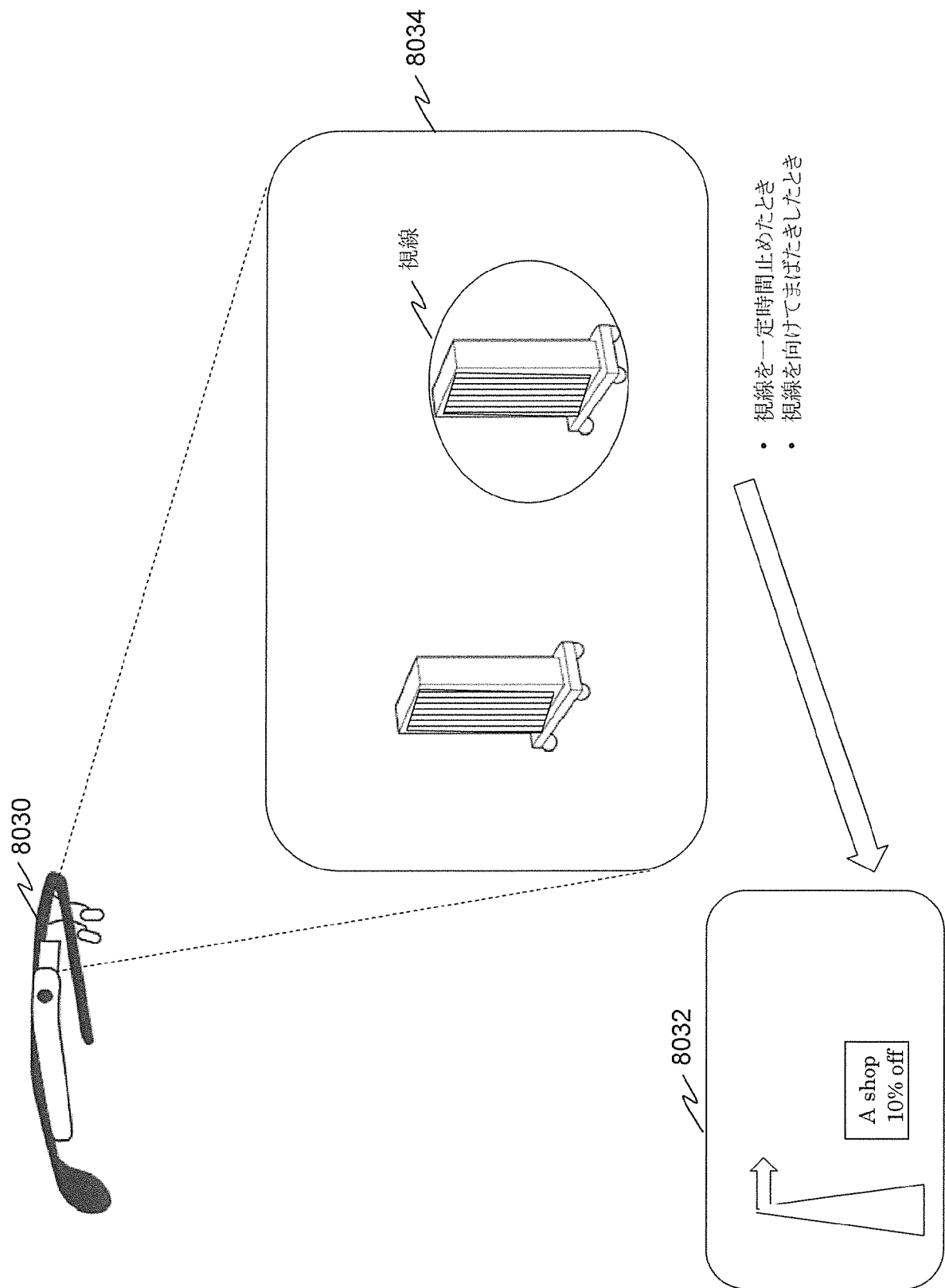
[図355]



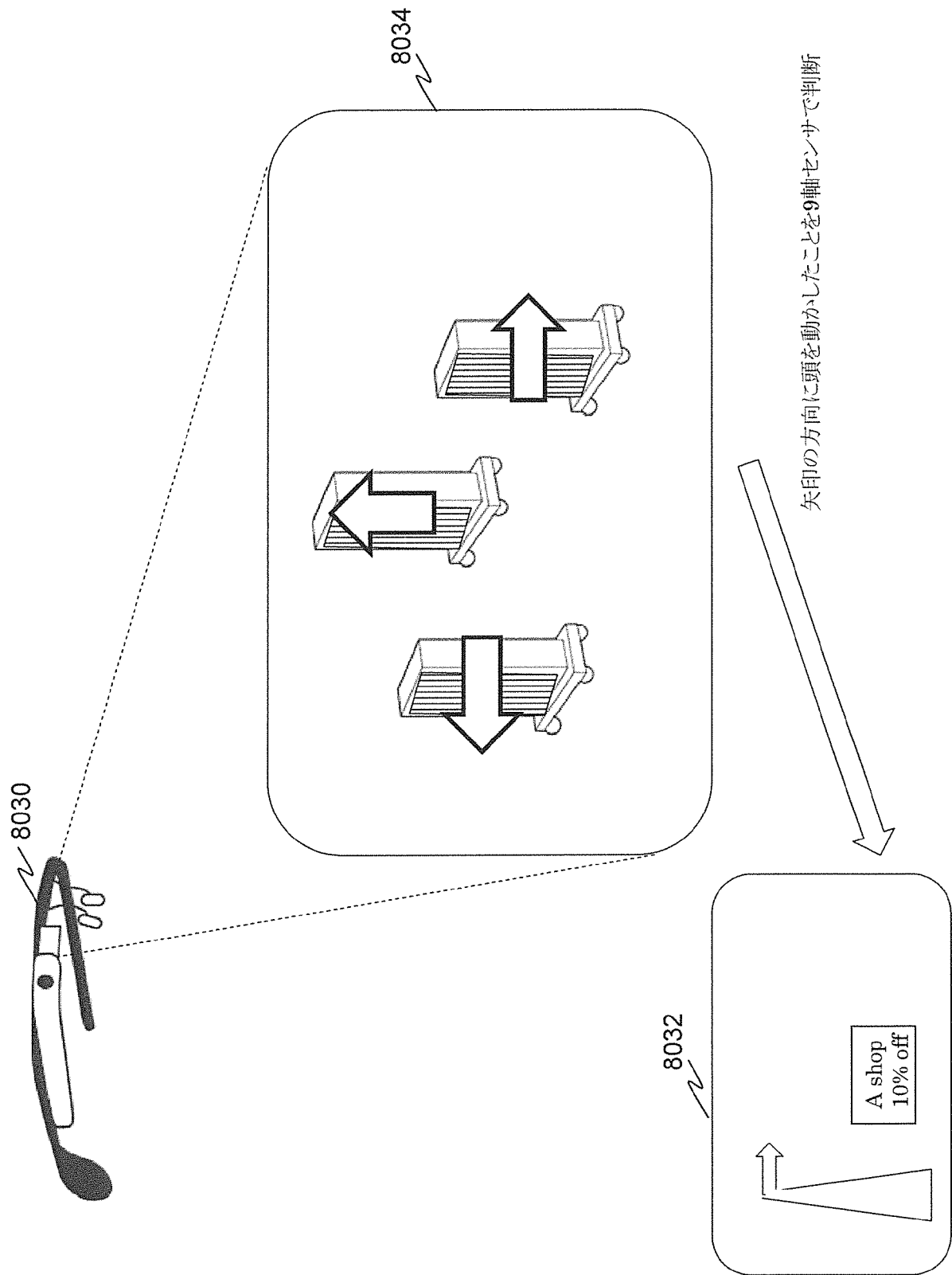
[図356]



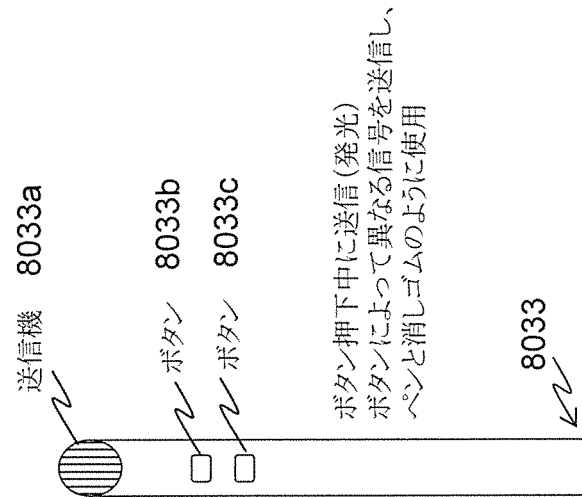
[図357]



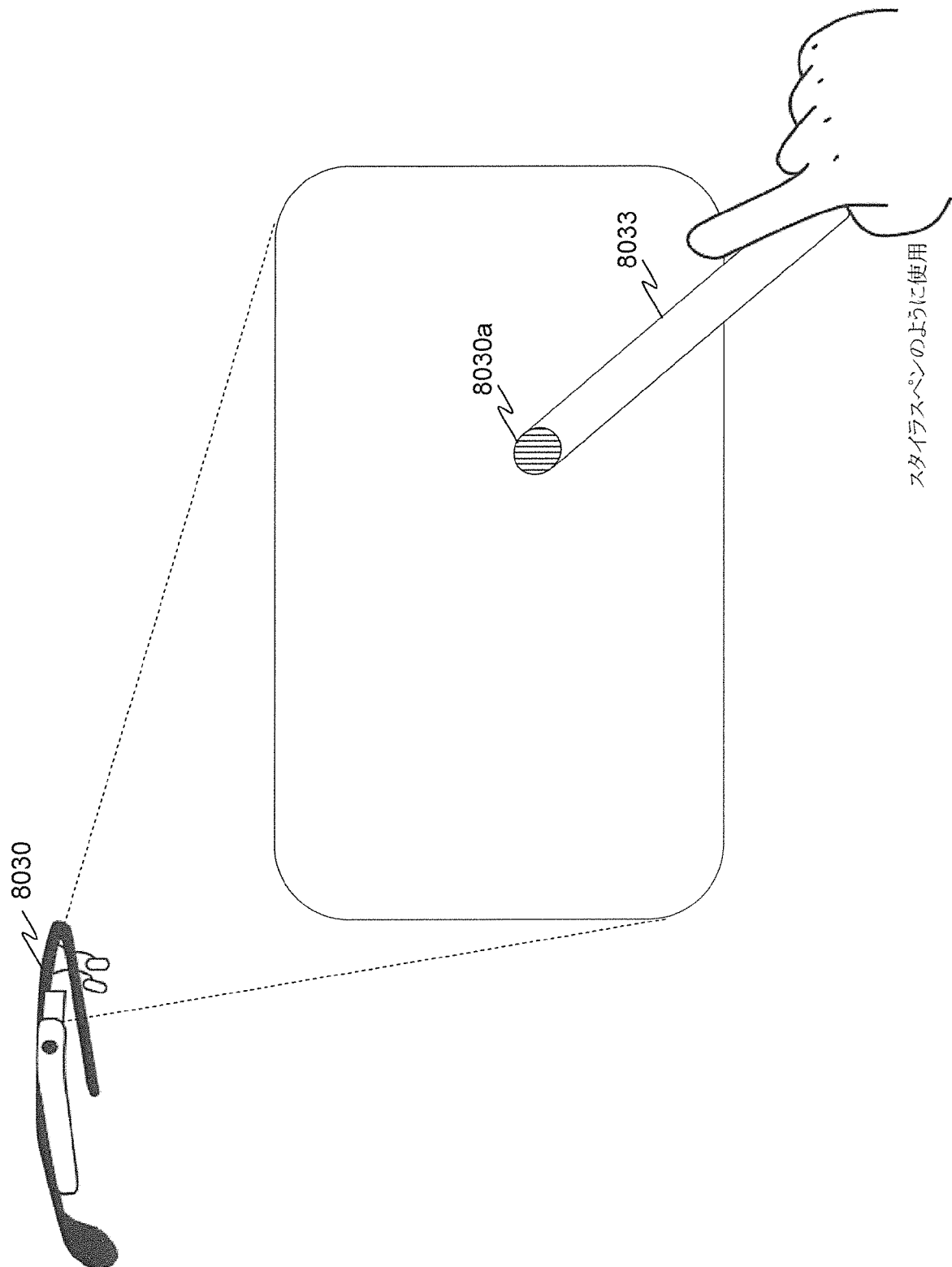
[図358]



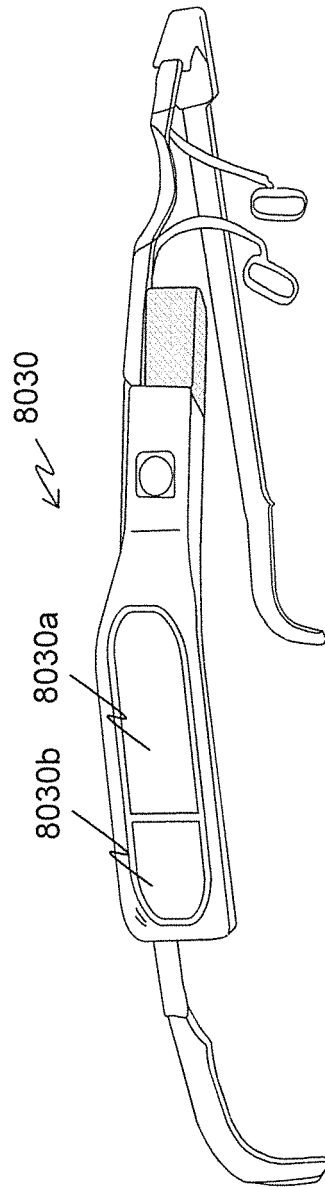
[図359A]



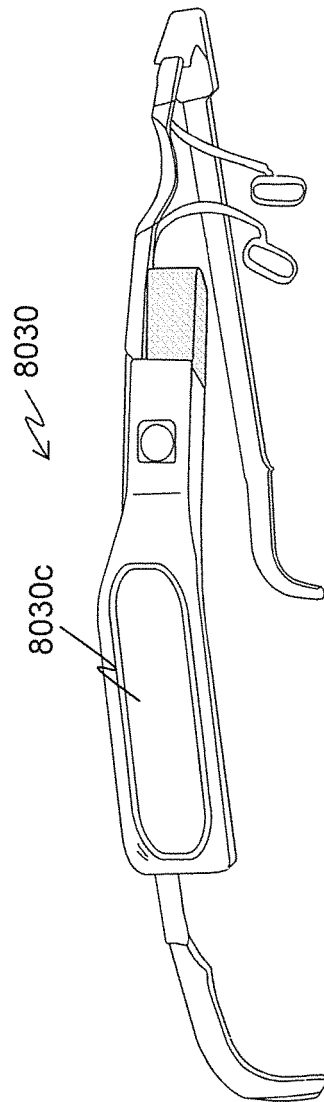
[図359B]



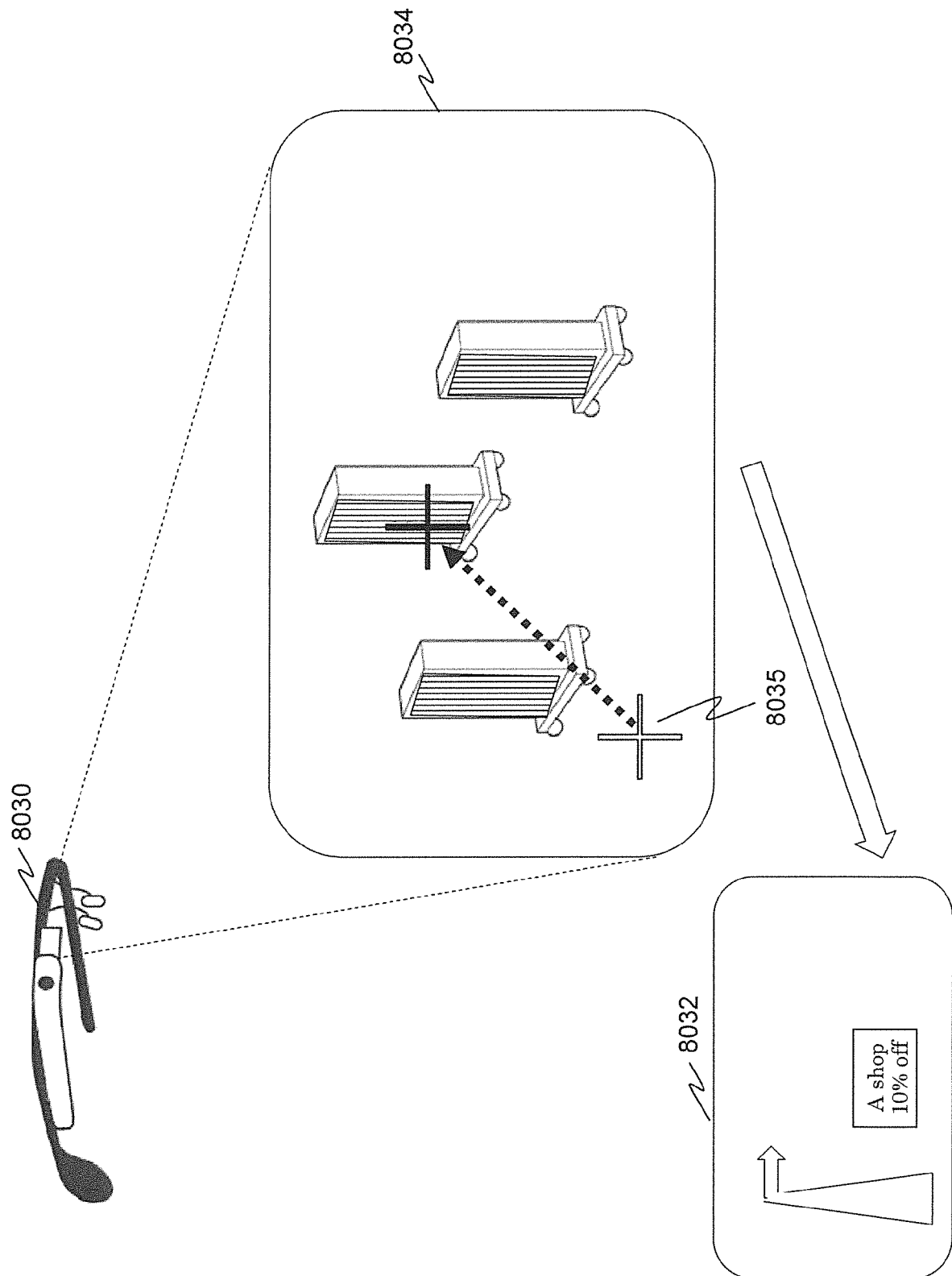
[図360]



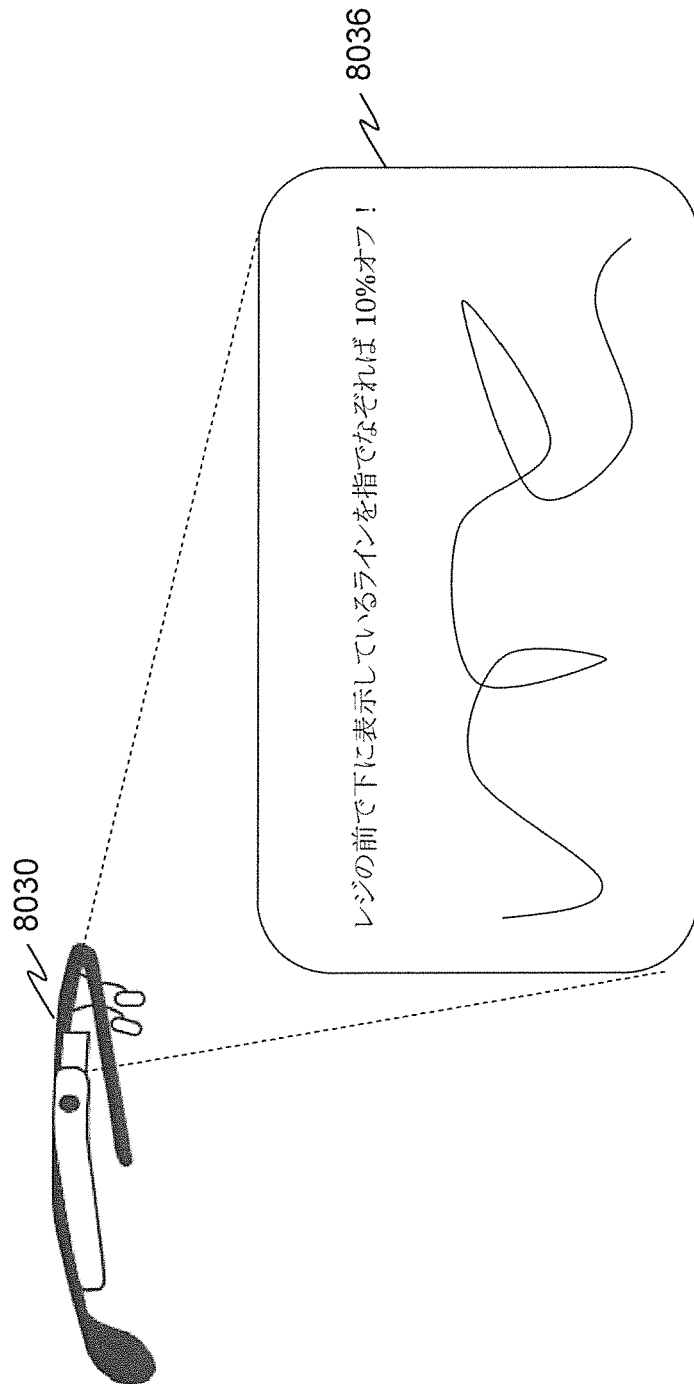
[図361]



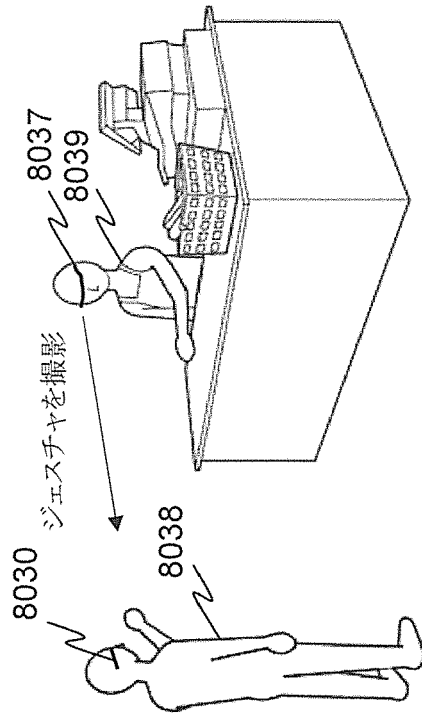
[図362]



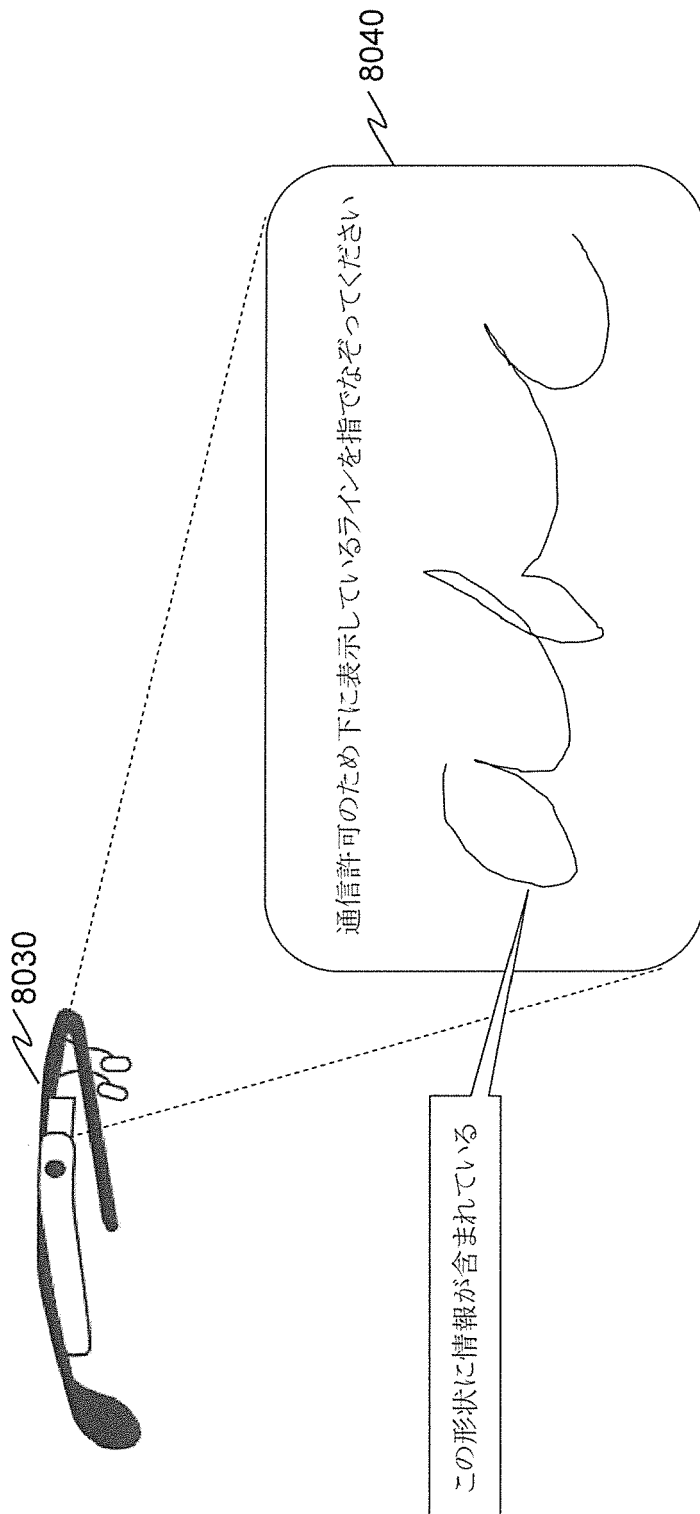
[図363A]



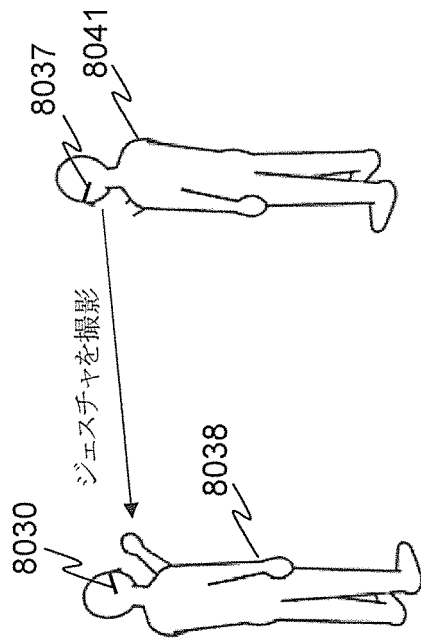
[図363B]



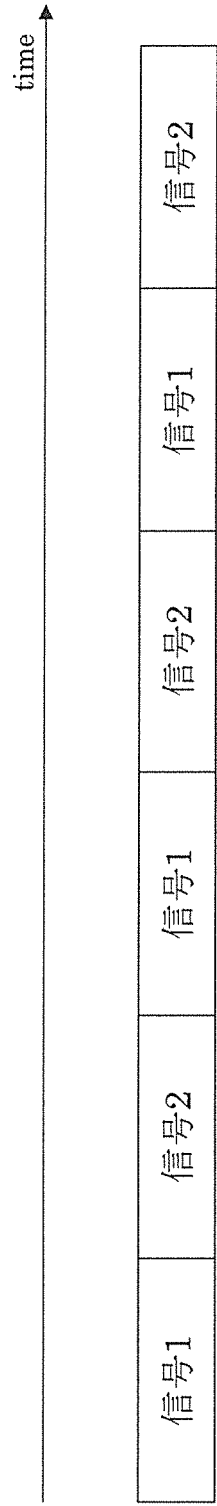
[図364A]



[図364B]

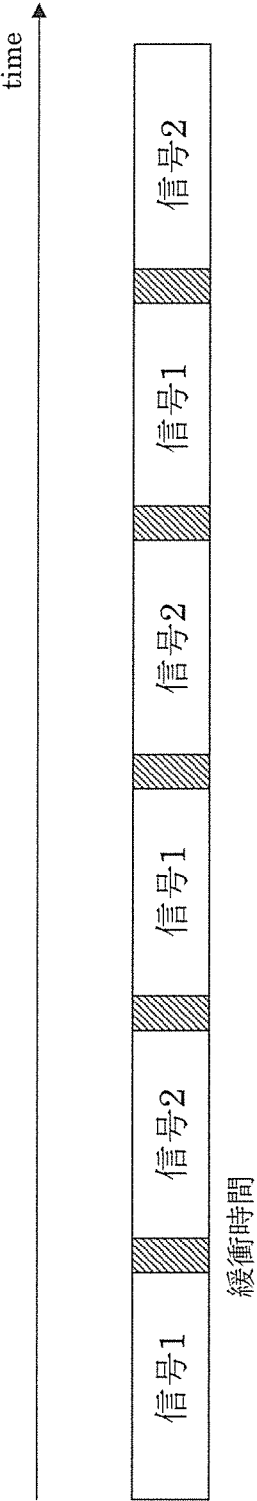


[図365A]

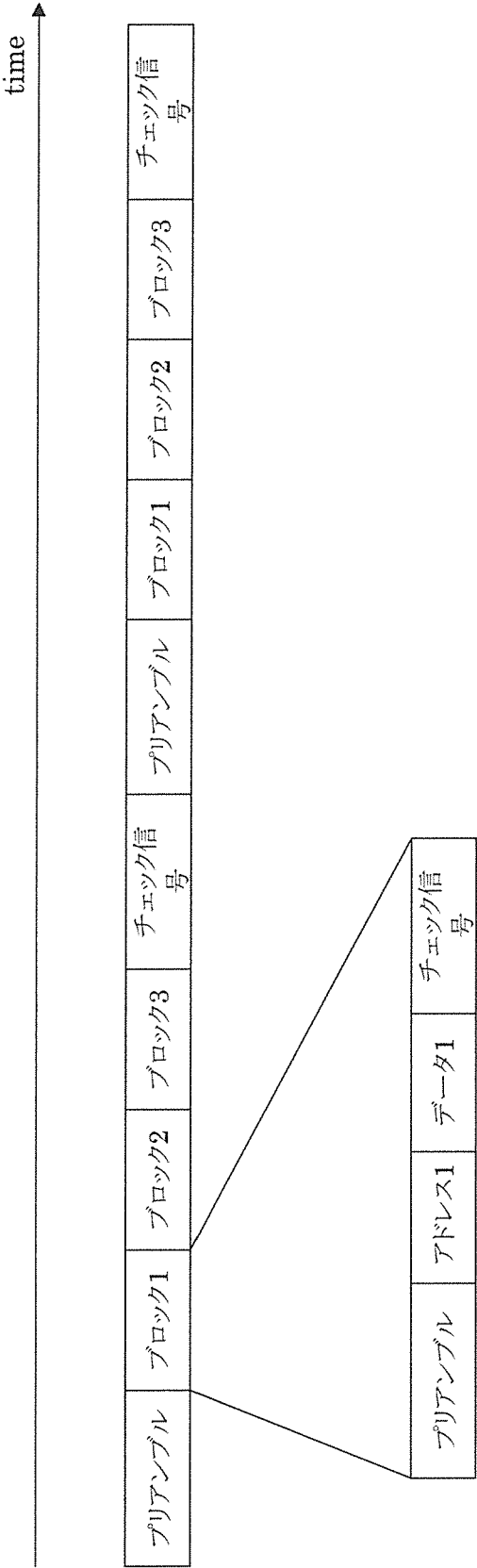


別の種類の信号を交代で送信

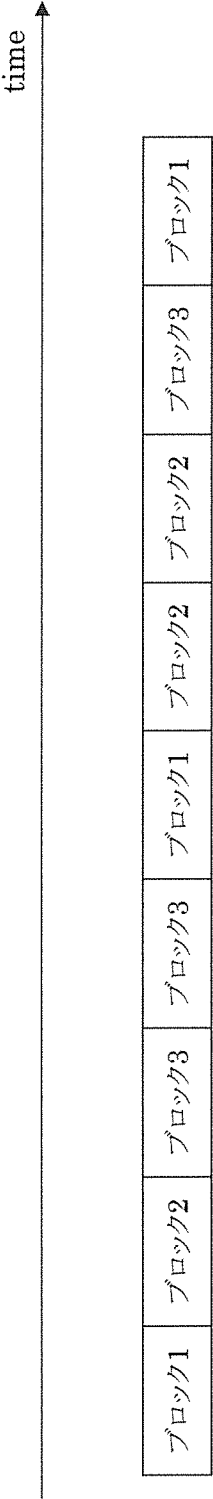
[図365B]



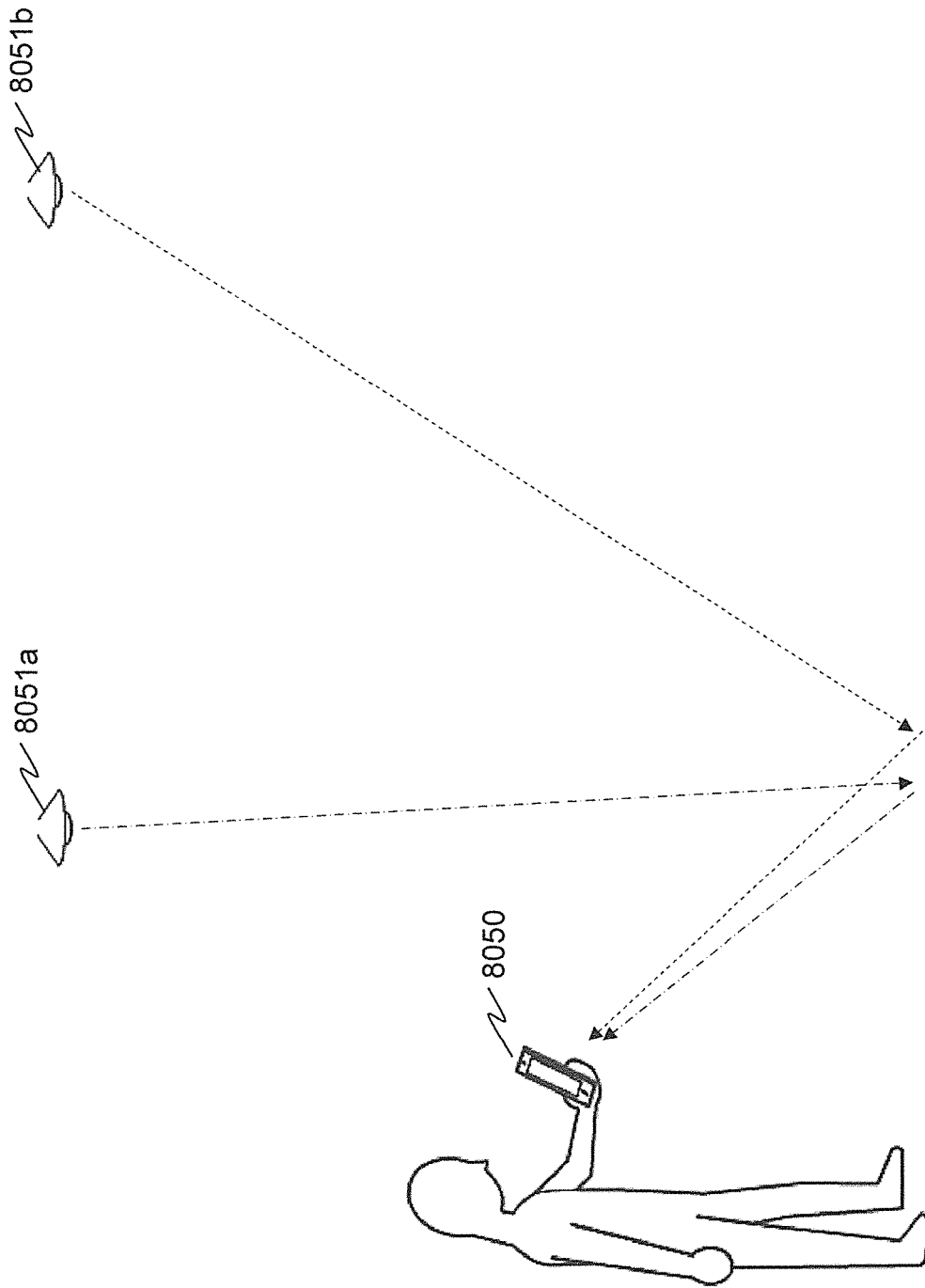
[図366]



[図367]

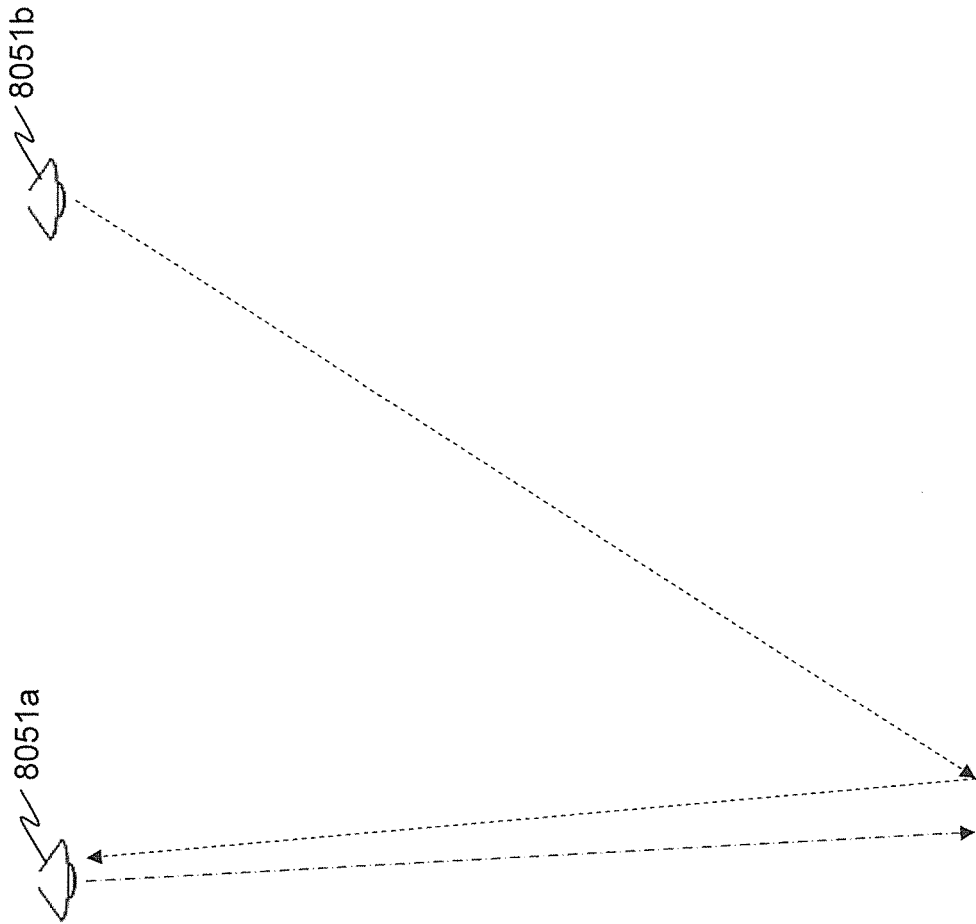


[図368]



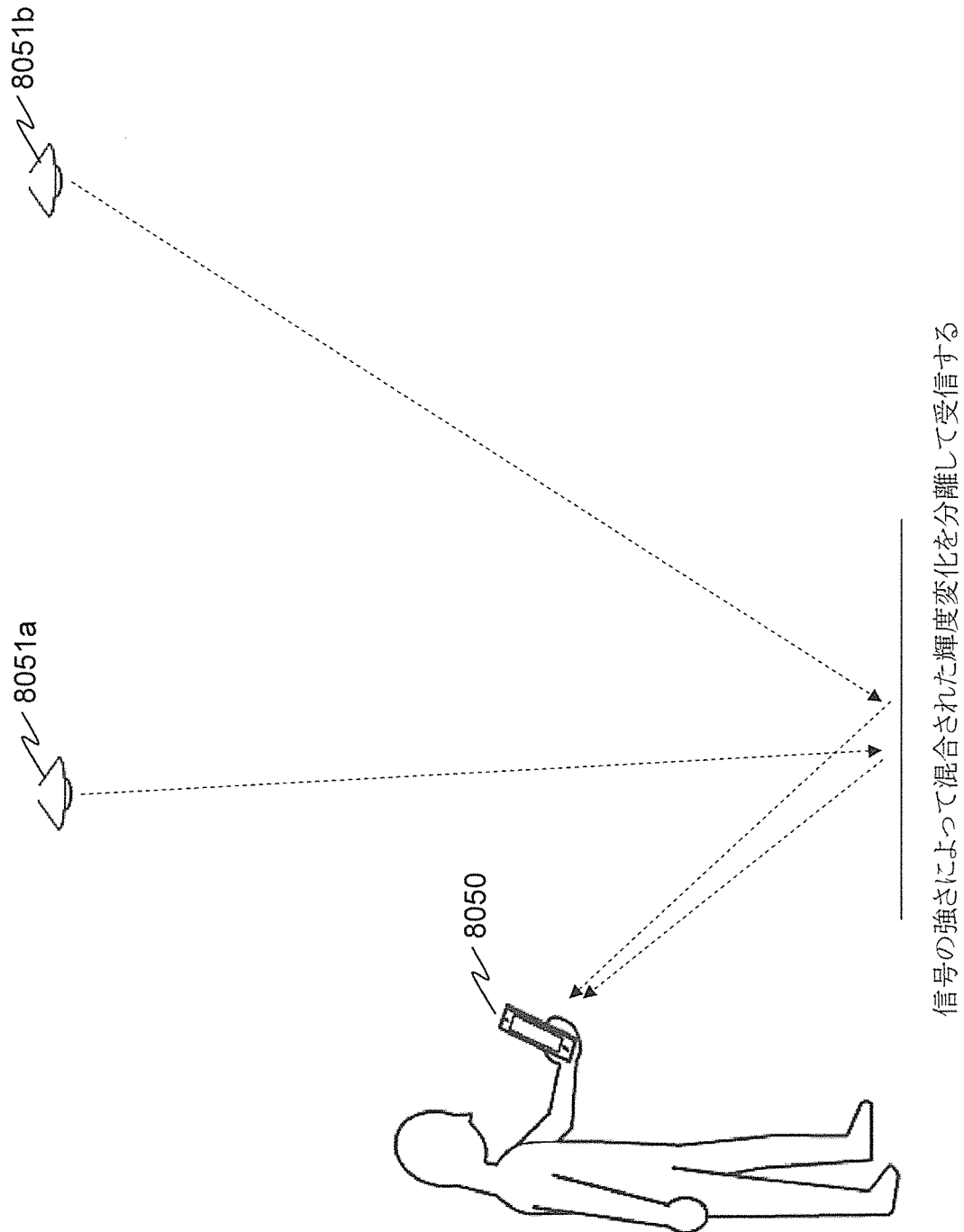
近くに配置された送信機は、異なる周波数やプロトコルの信号を送信すること
で混信せずに受信可能となる

[図369]

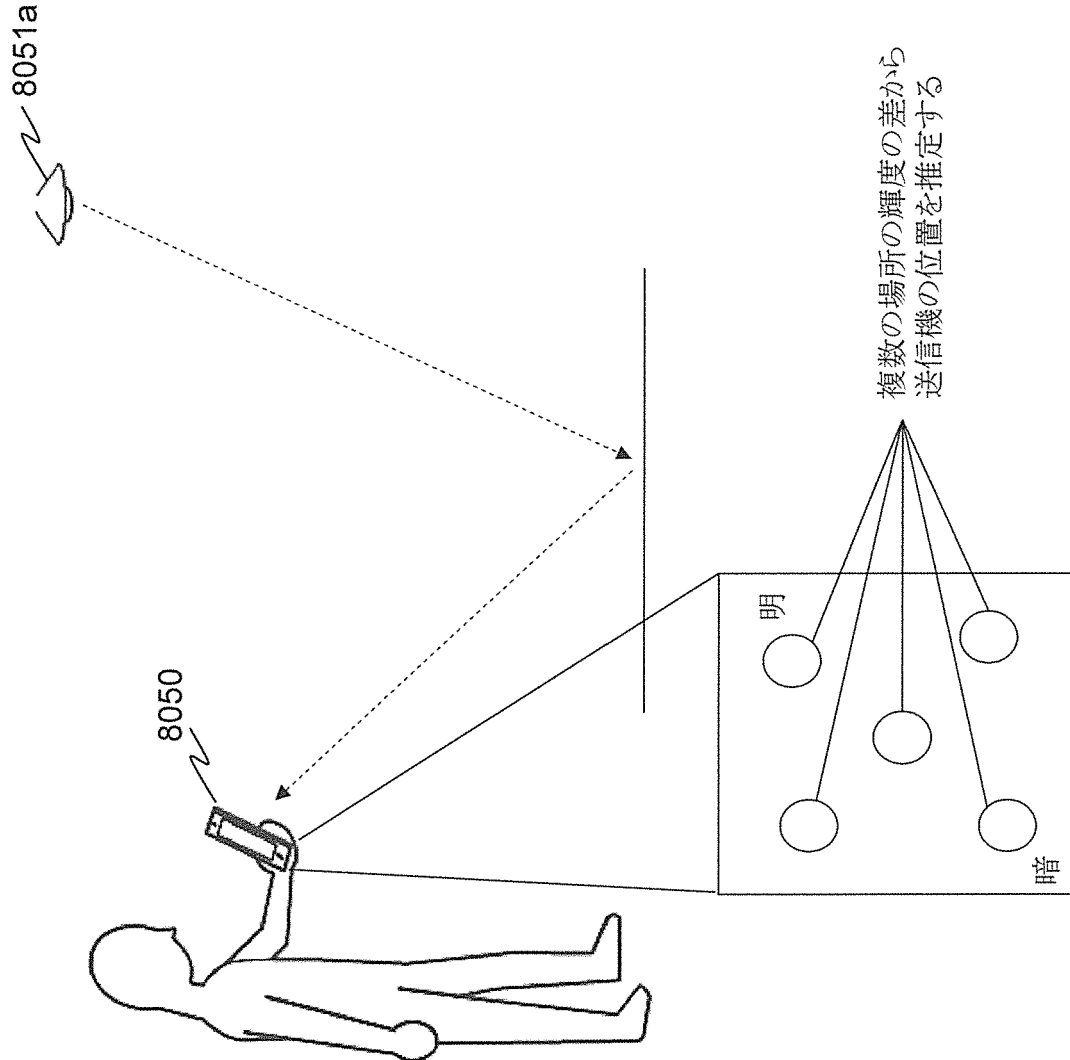


送信機は、他の送信機からの信号を受信し、自らの送信信号と他の送信機からの送信信号が混信しないように送信プロトコルを変更したり、他の送信機が信号を送信していない時間帯に信号を送信する

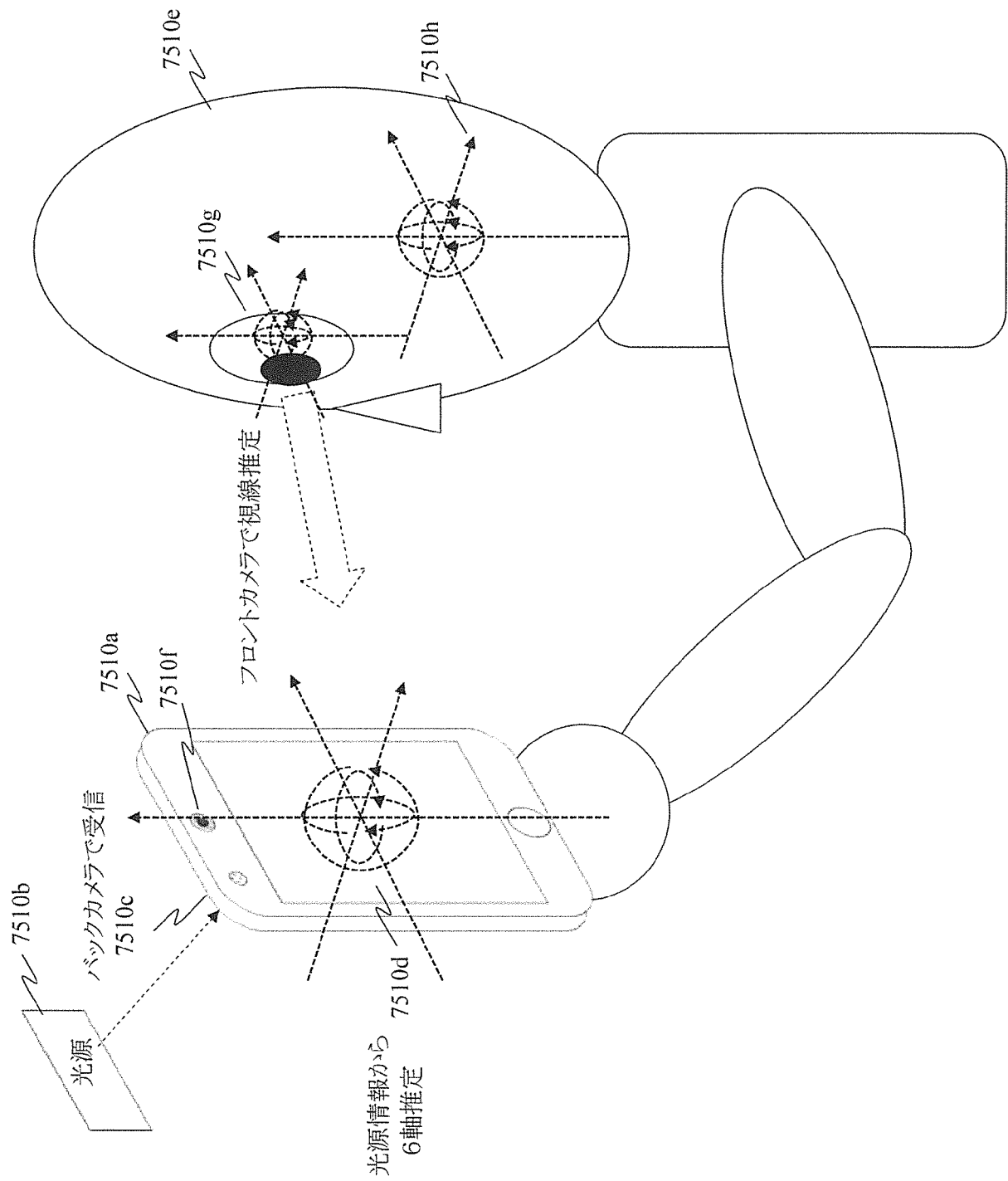
[図370]



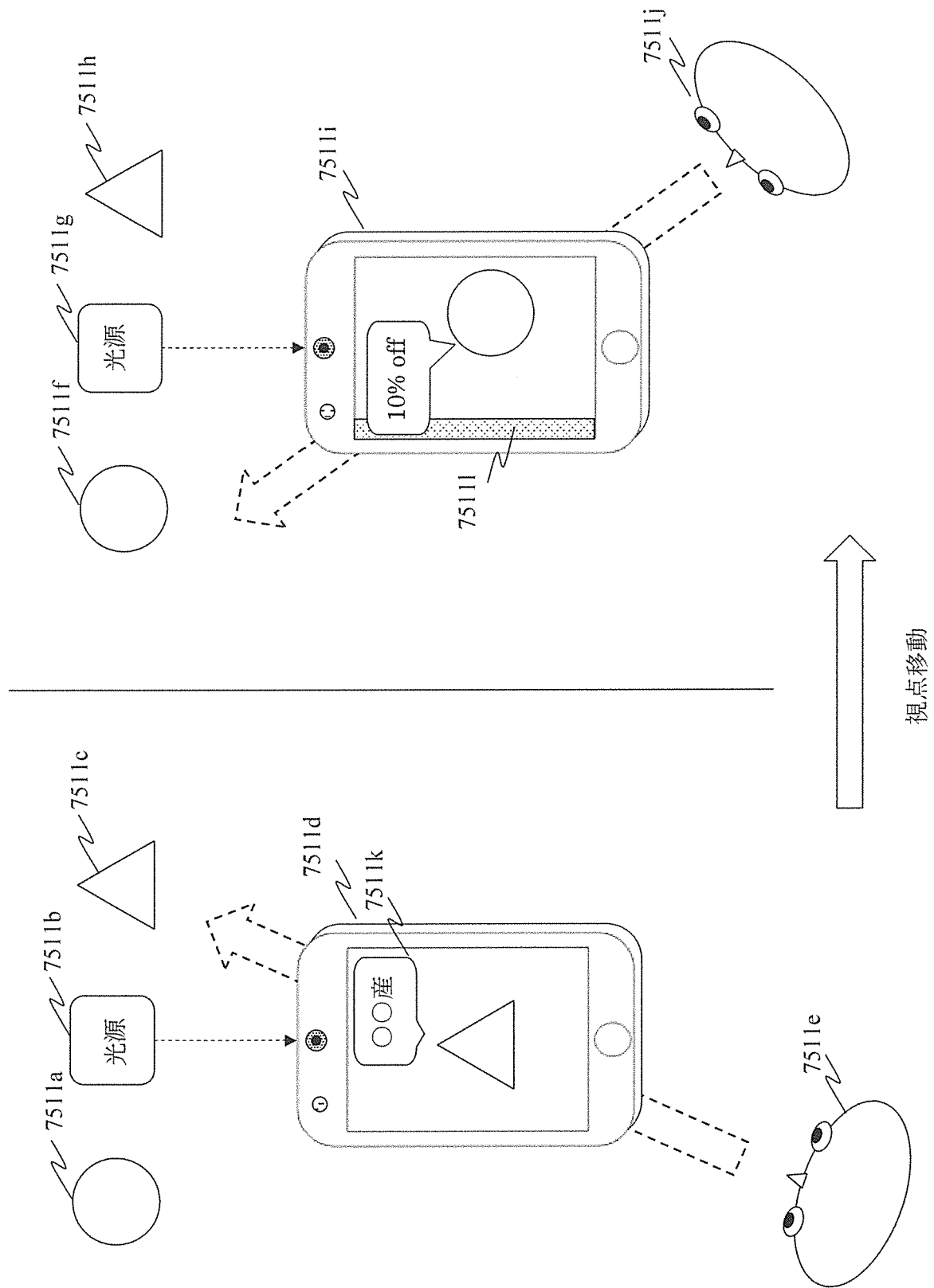
[図371]



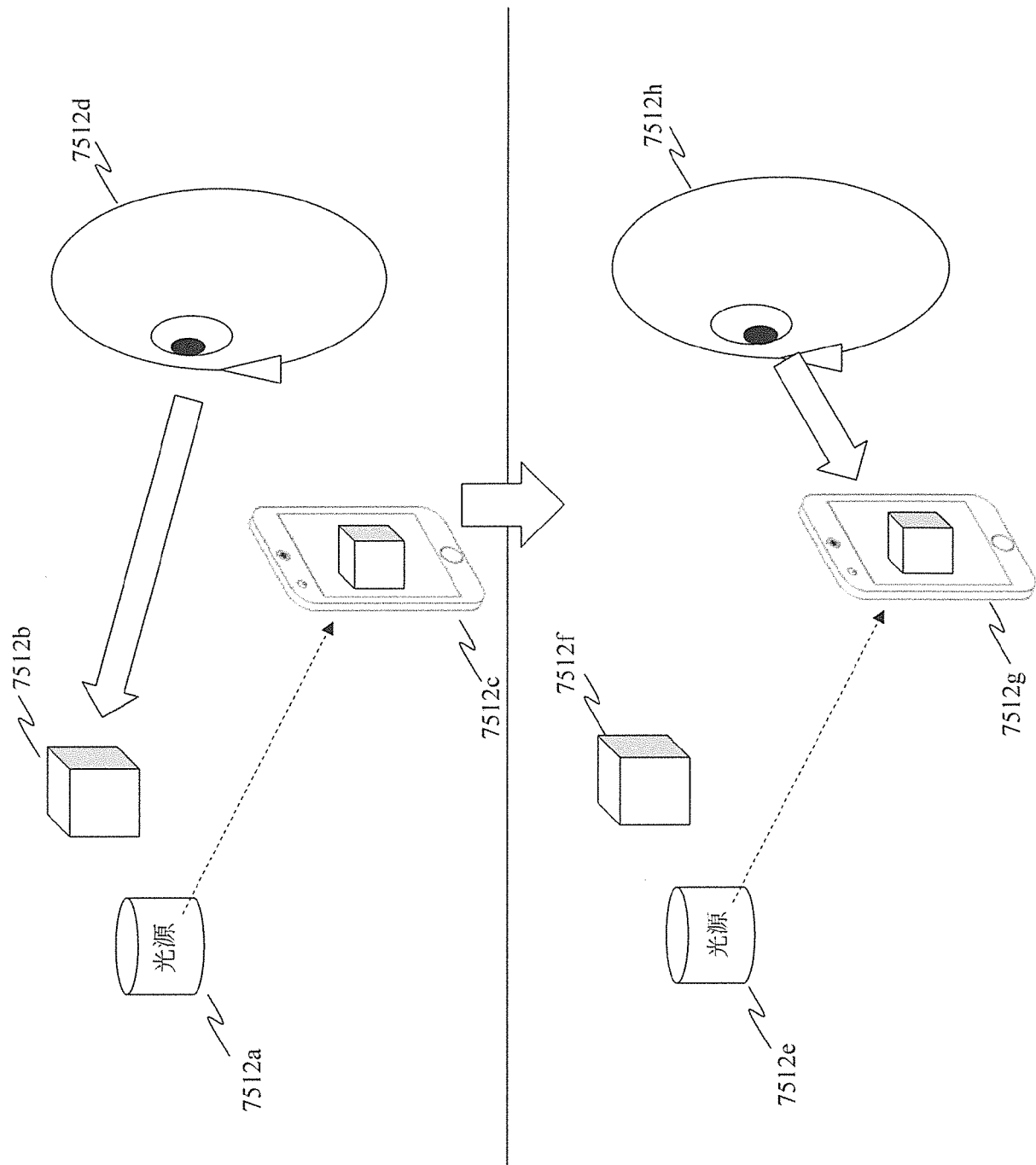
[図372]



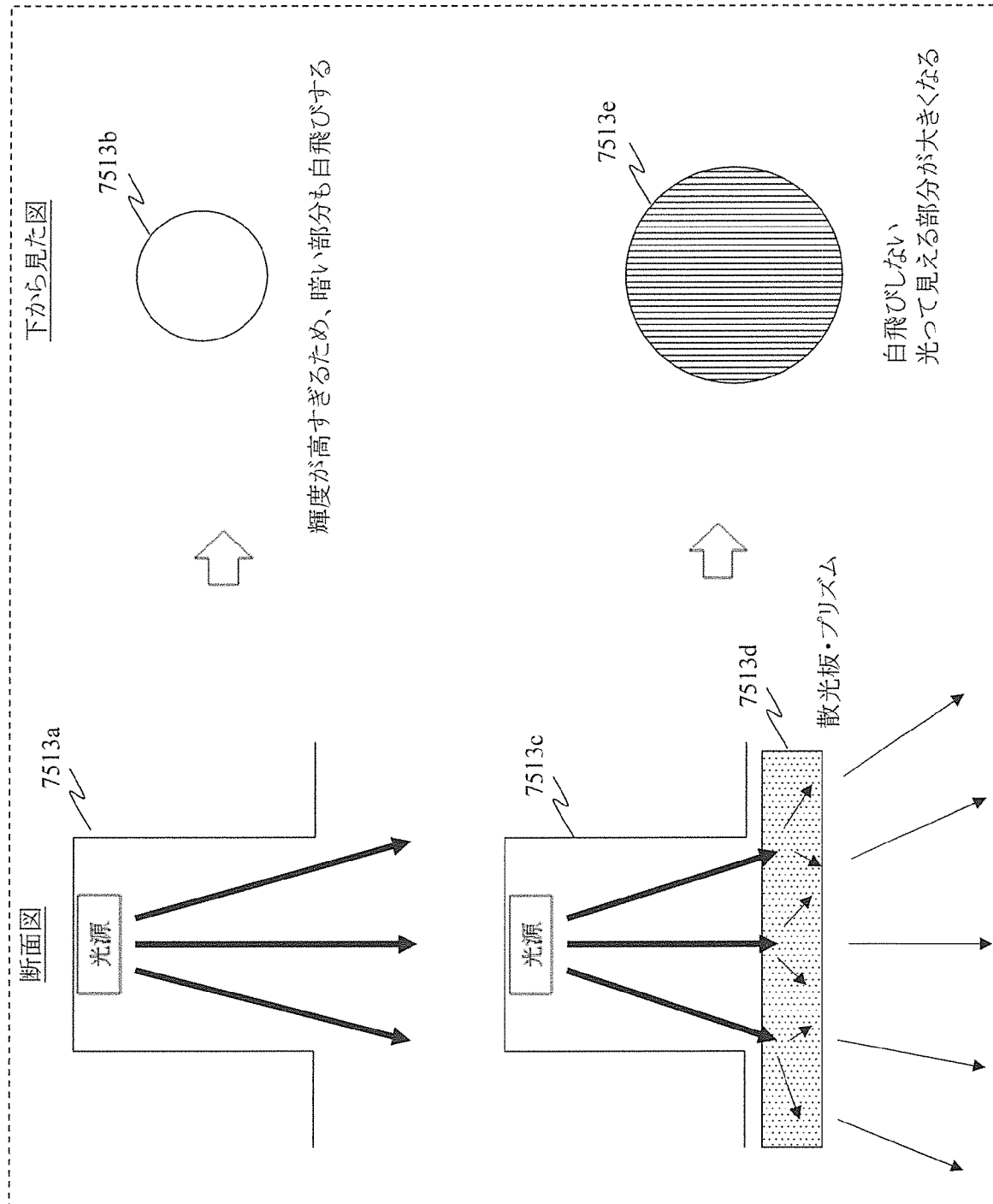
[図373]



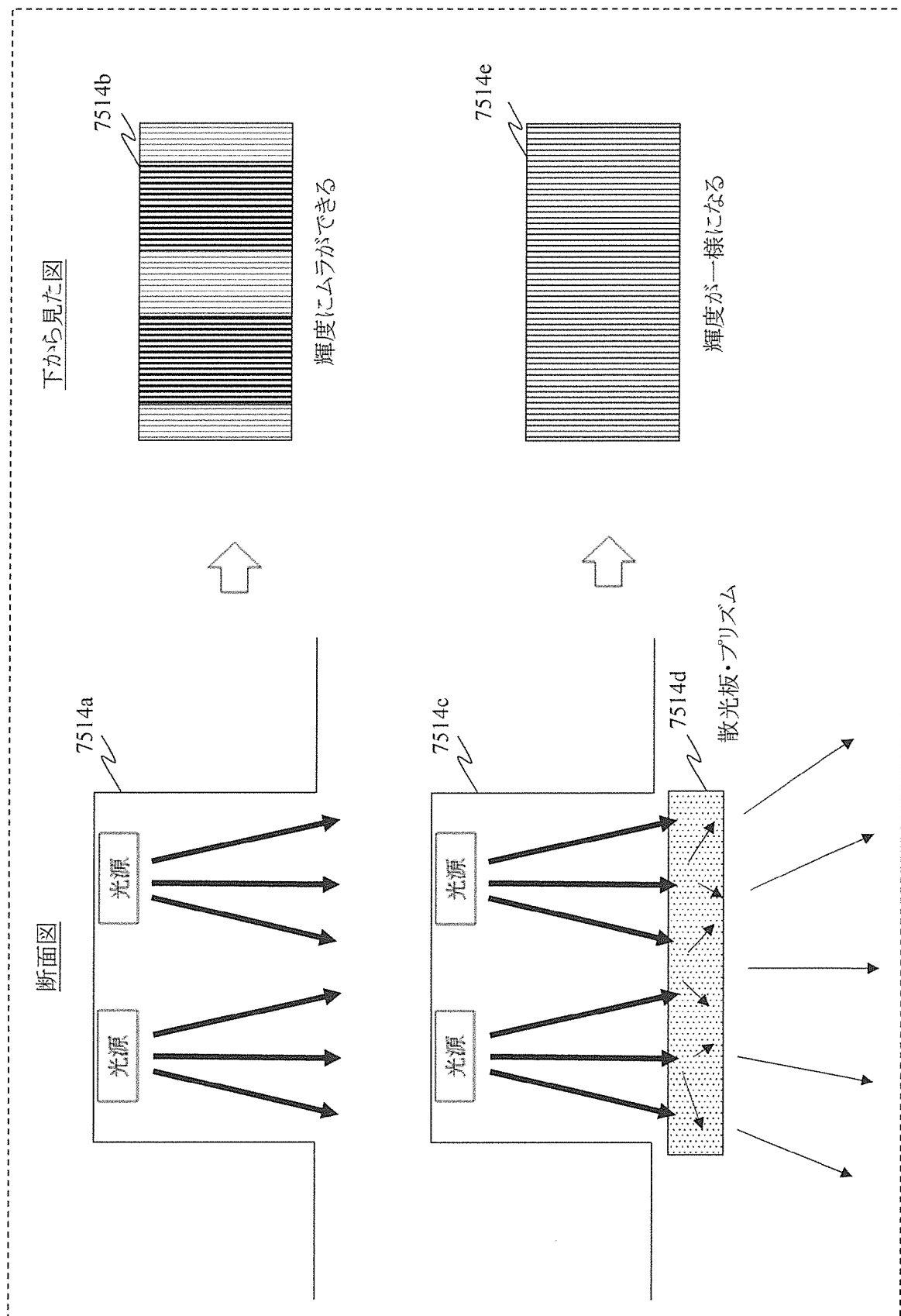
[図374]



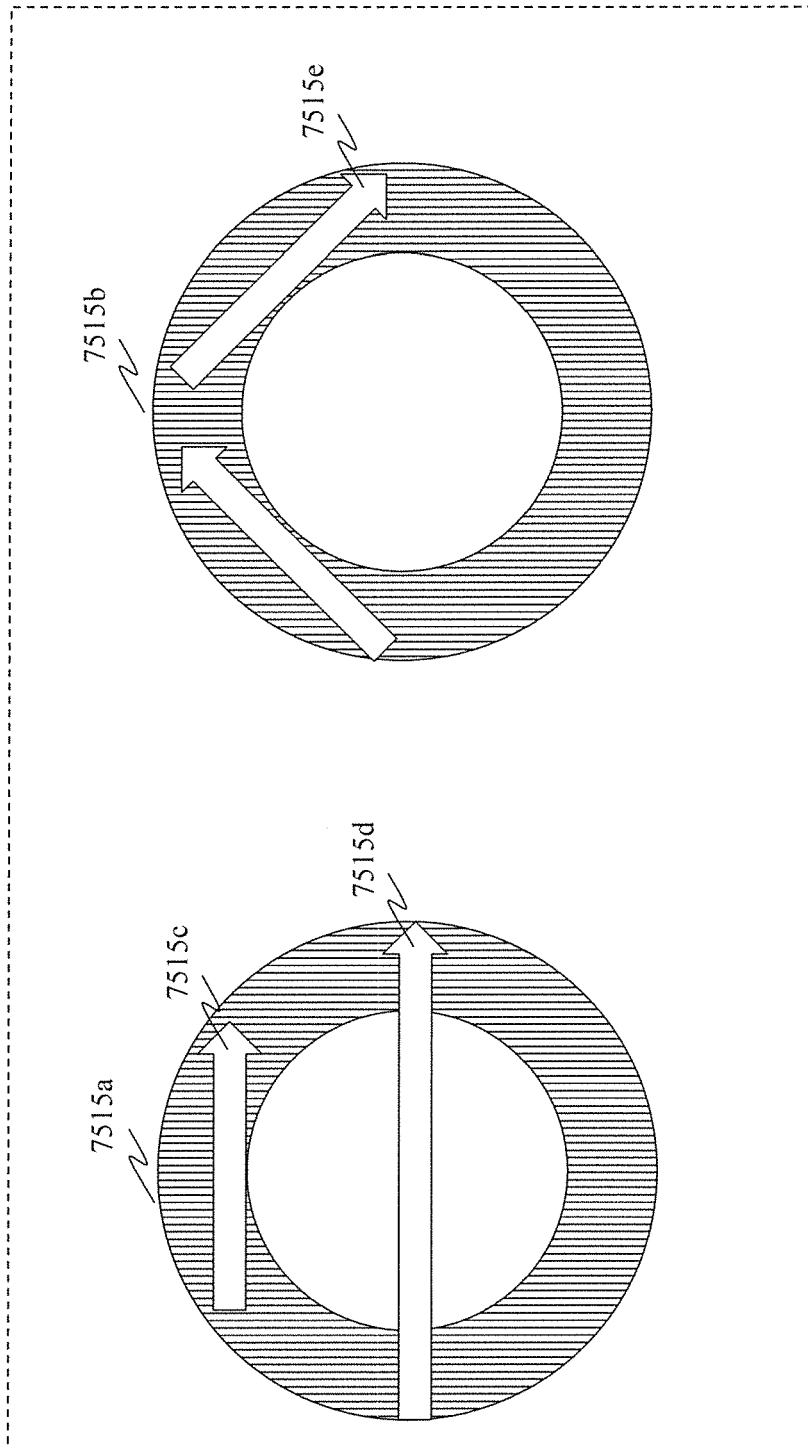
[図375]



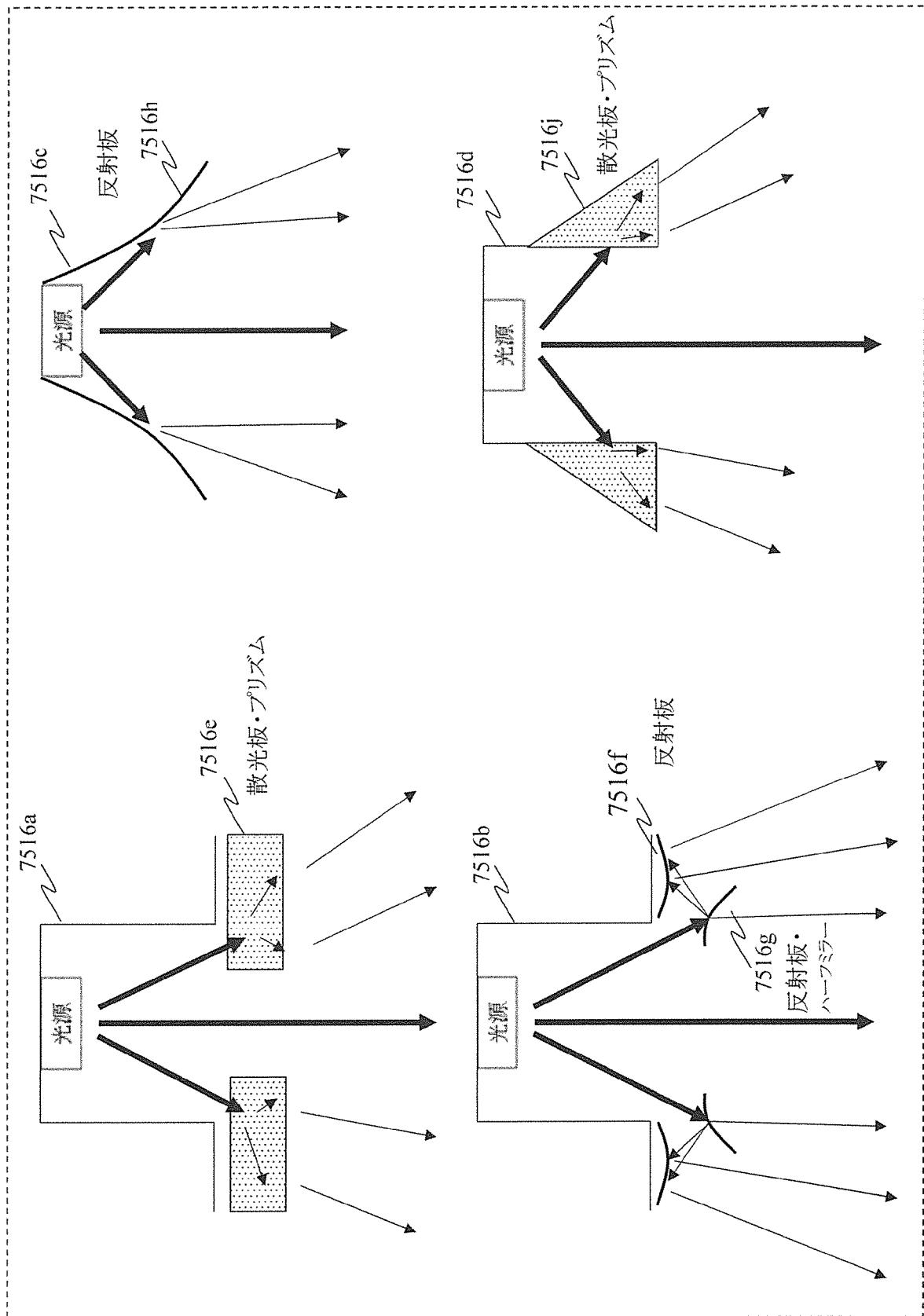
[図376]



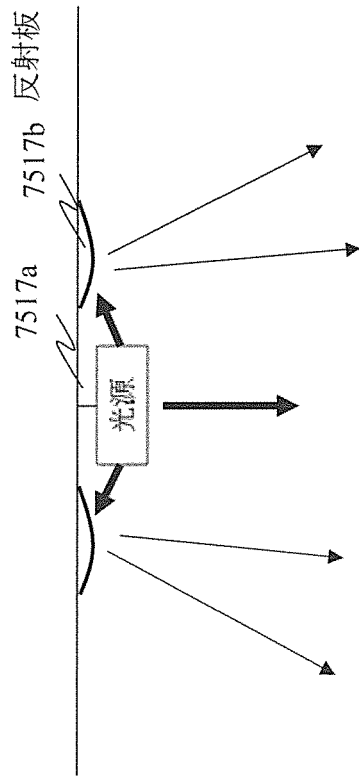
[図377]



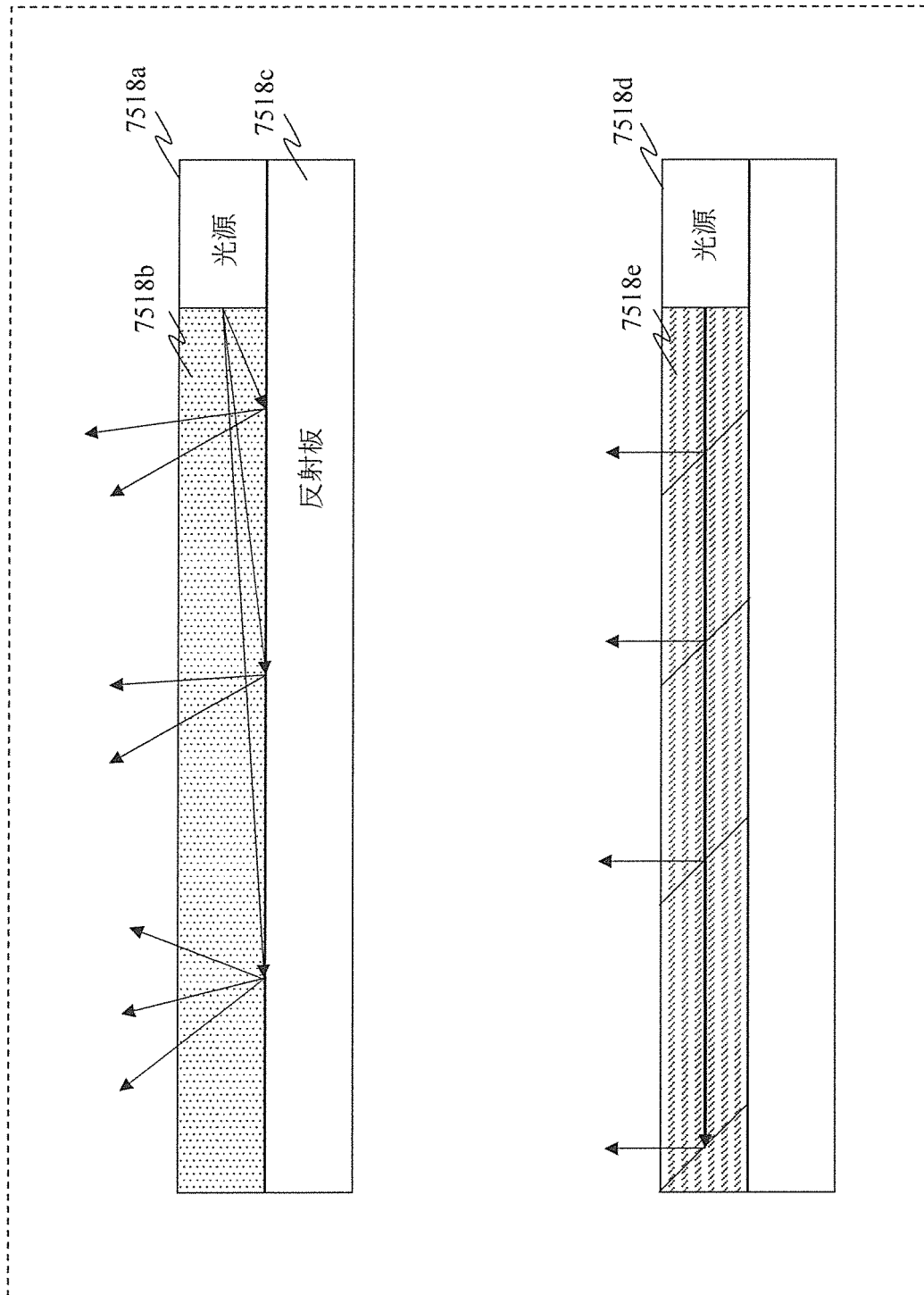
[図378]



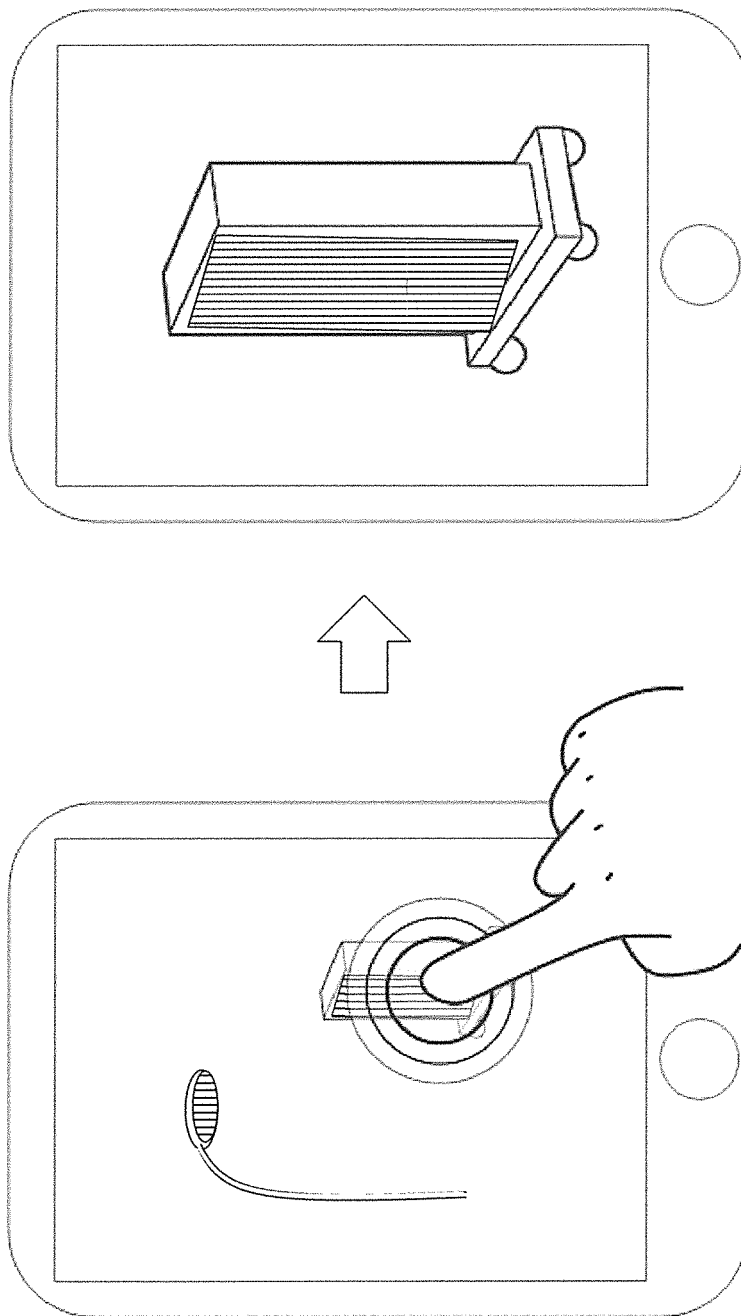
[図379]



[図380]

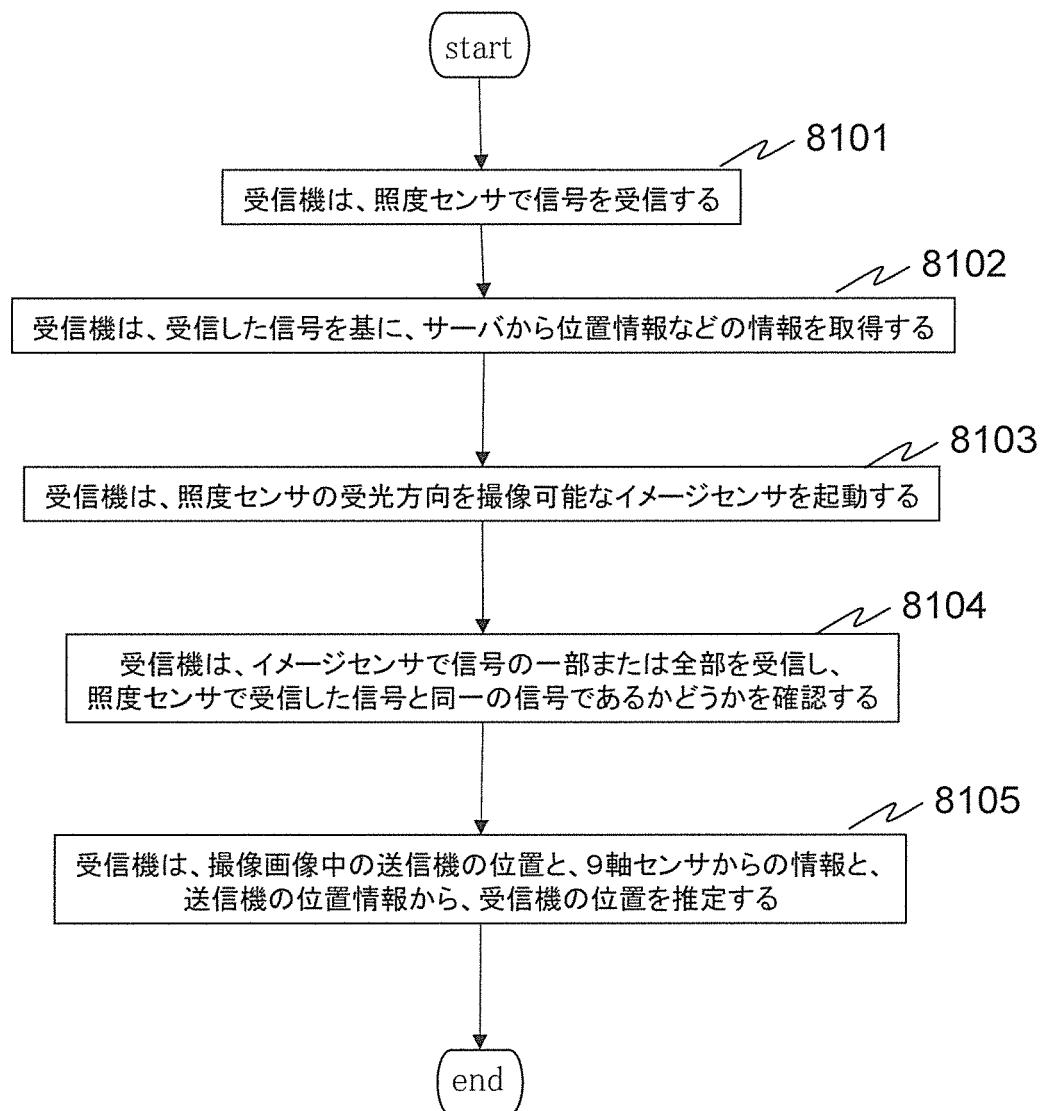


[図381]

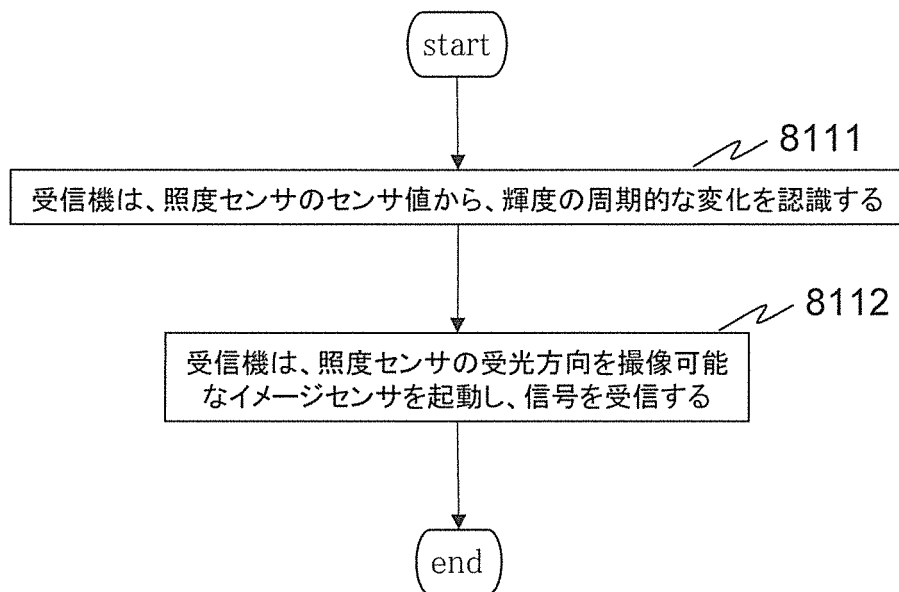


ズームして信号を受信

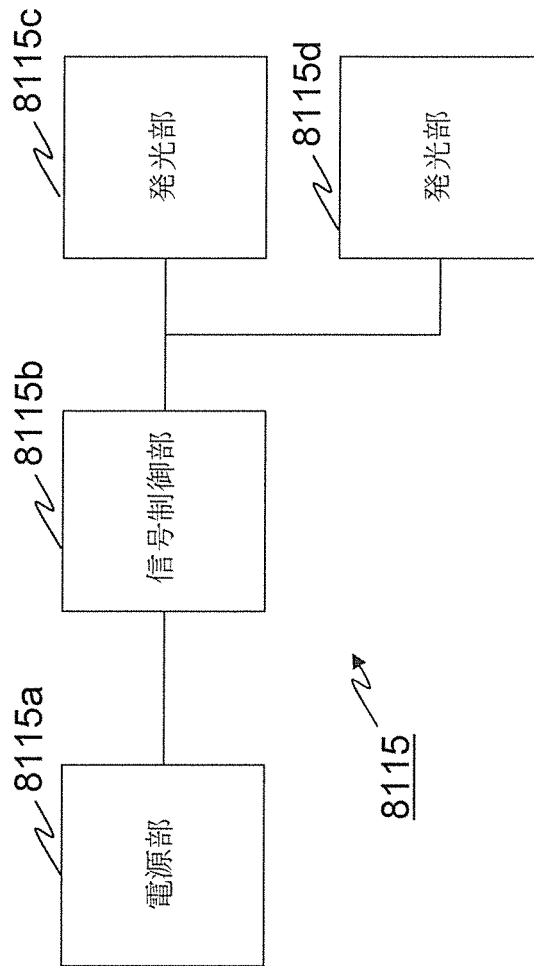
[図382]



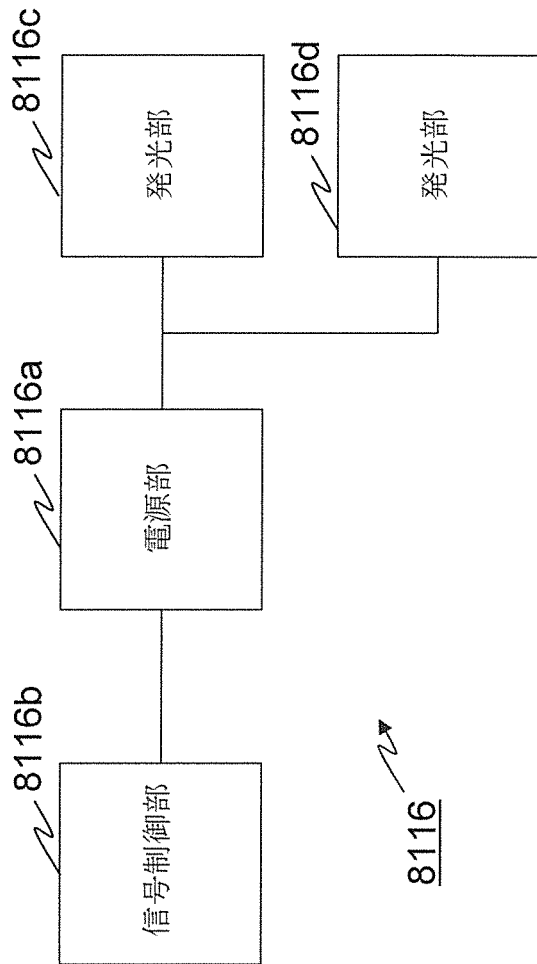
[図383]



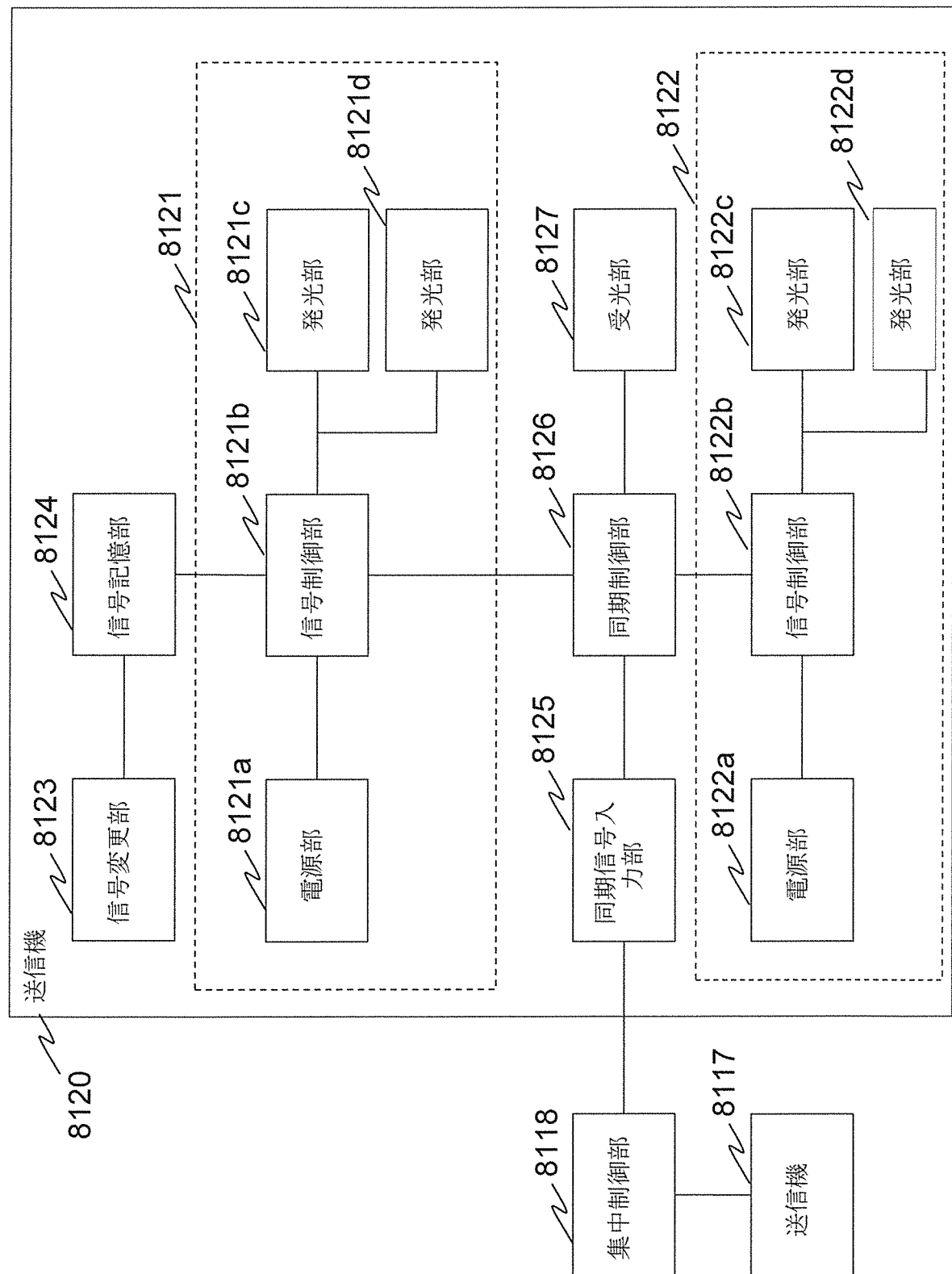
[図384A]



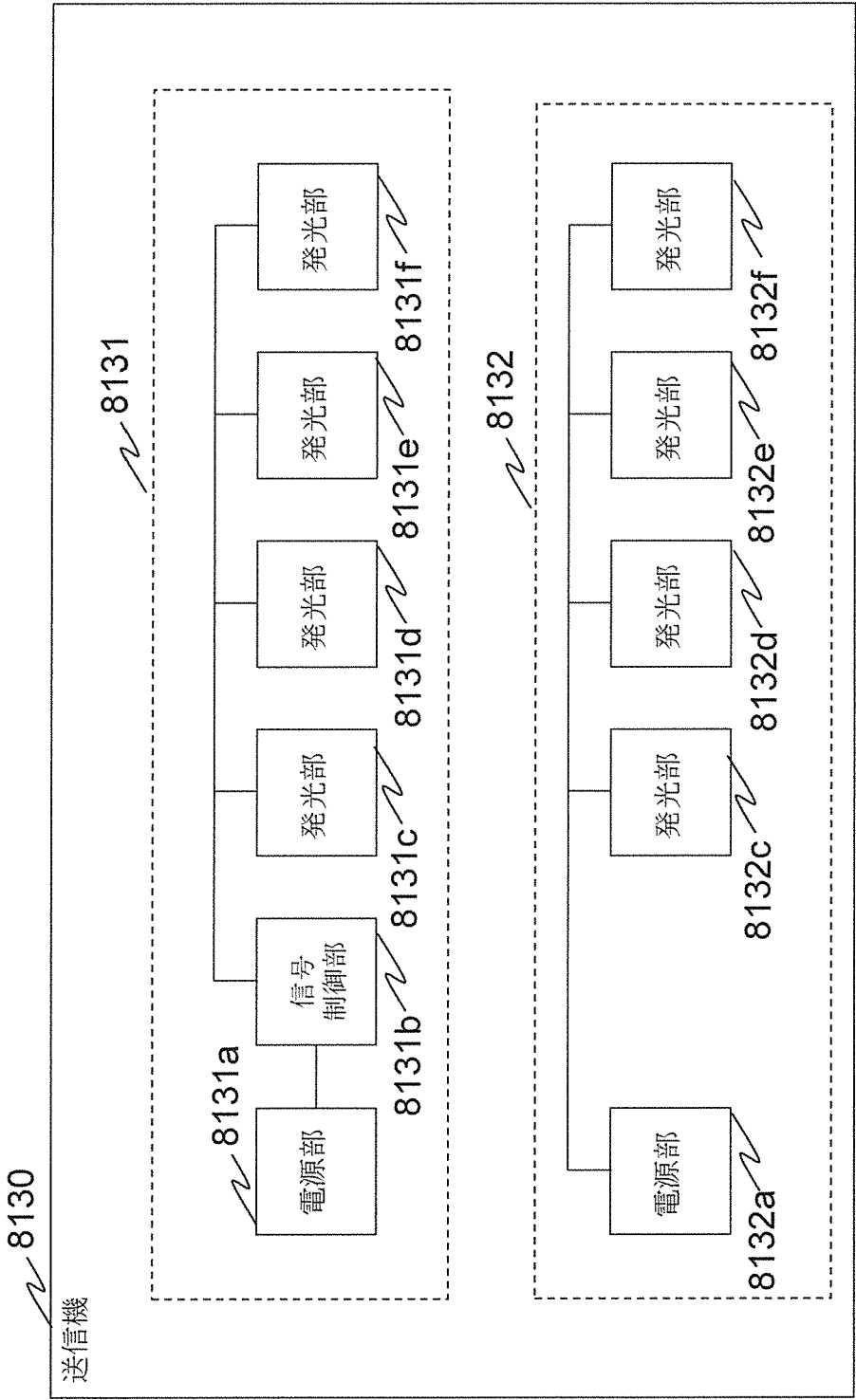
[図384B]



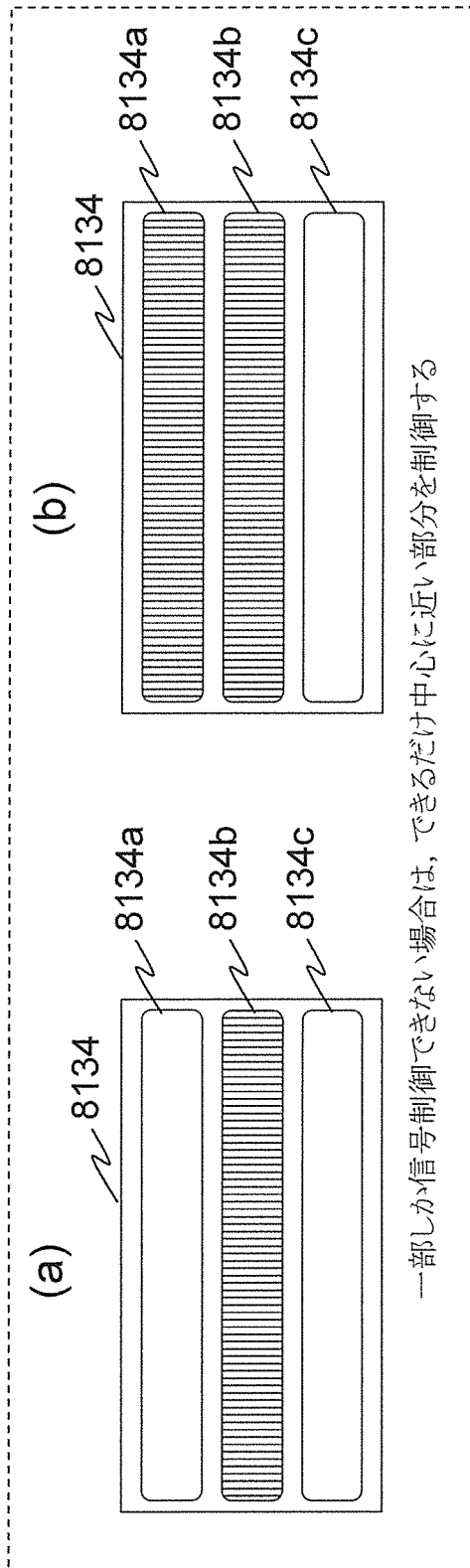
[図385]



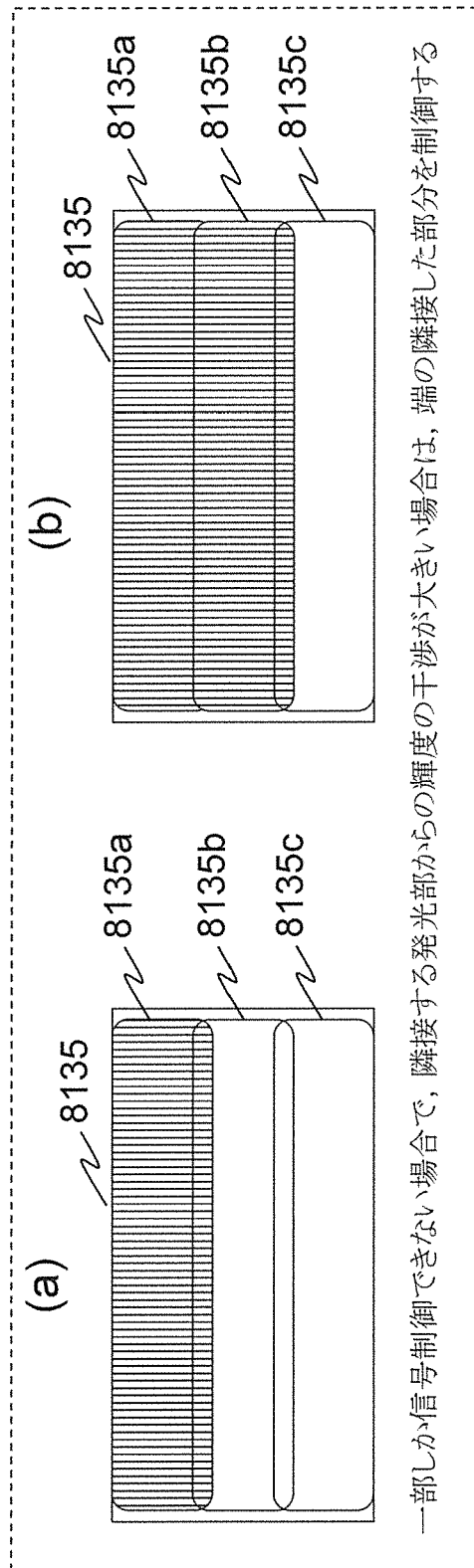
[図386]



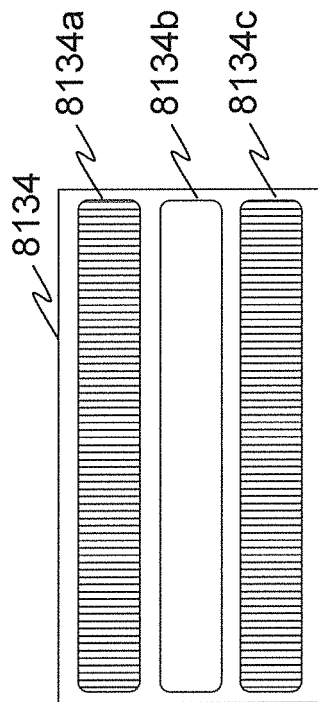
[図387A]



[図387B]

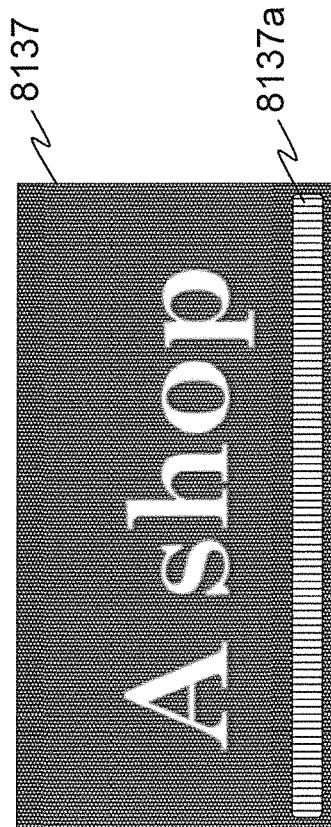


[図387C]



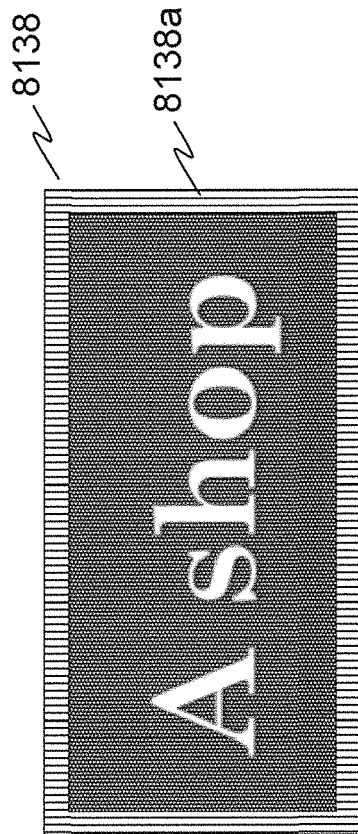
一部しか信号制御できない場合で、受信可能範囲を広げたい場合は、端の部分を制御する

[図388A]



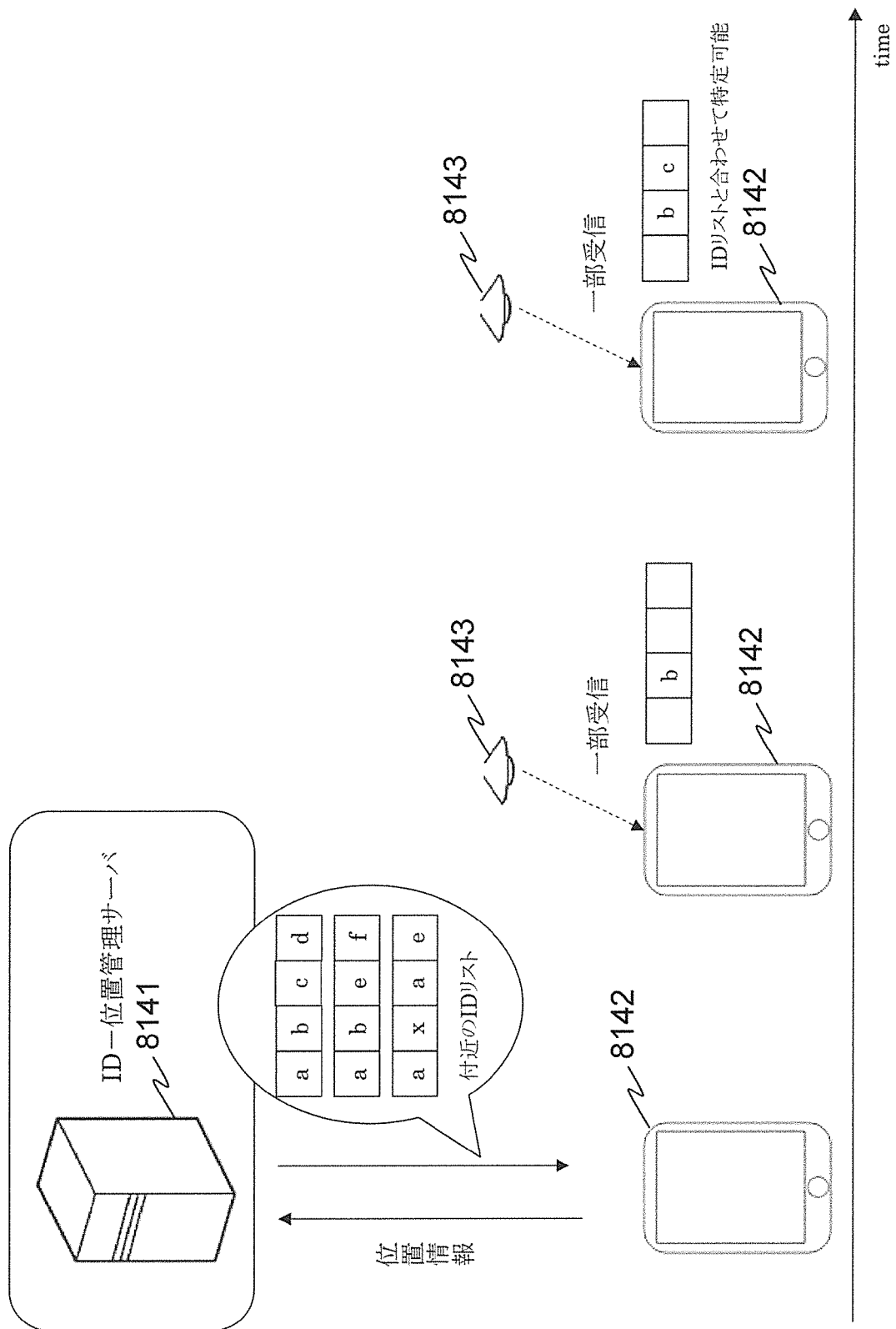
受信しやすいように、看板の一部に発光が一樣な部分を設ける

[図388B]

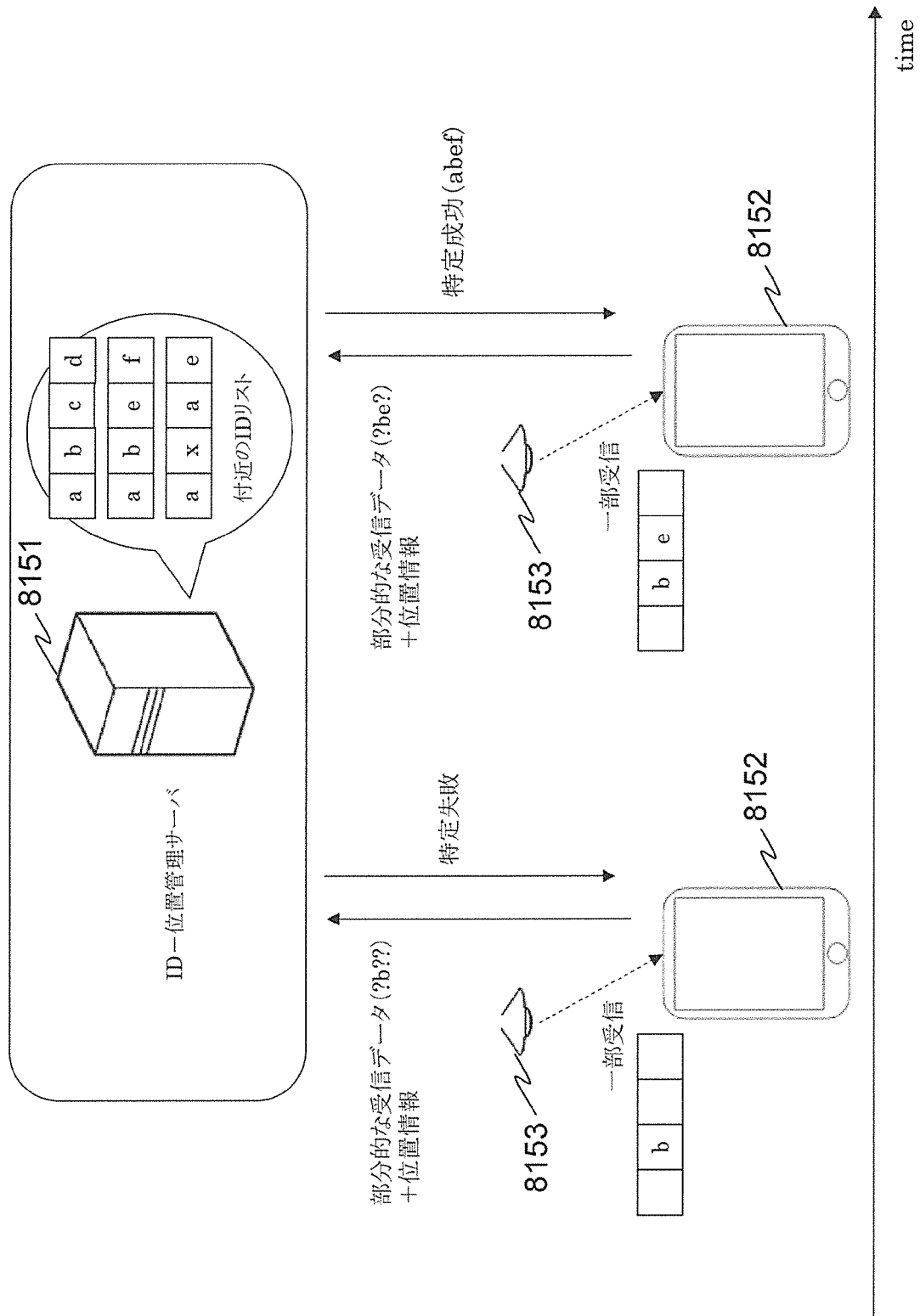


いずれの向きに撮像しても一様発光部分が大きく存在するように一様発光部分を配置する

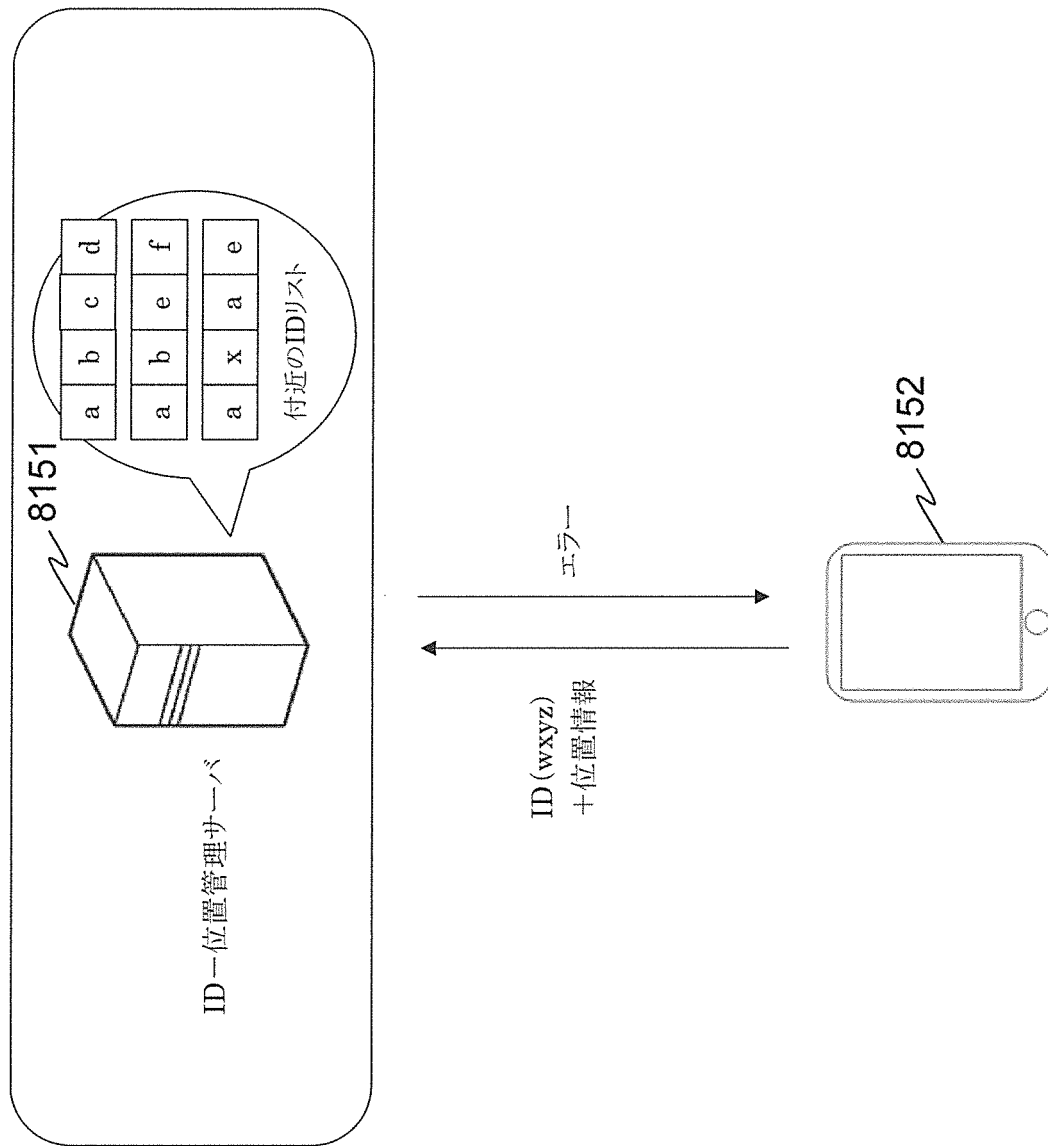
[図389]



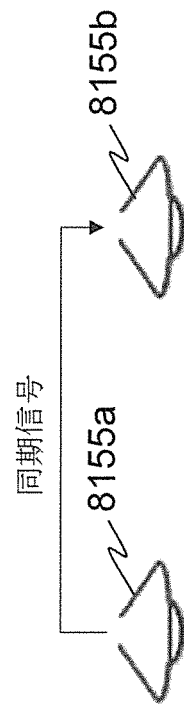
[図390]



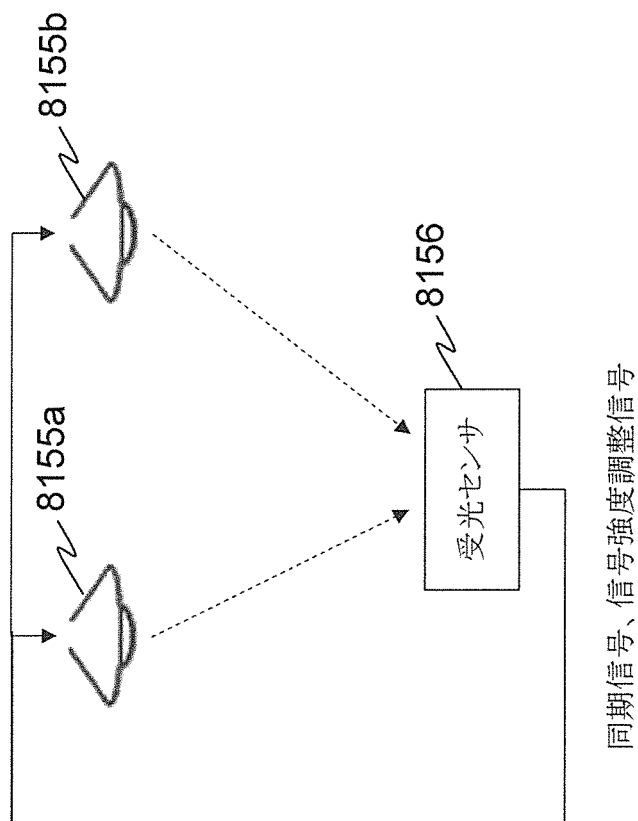
[図391]



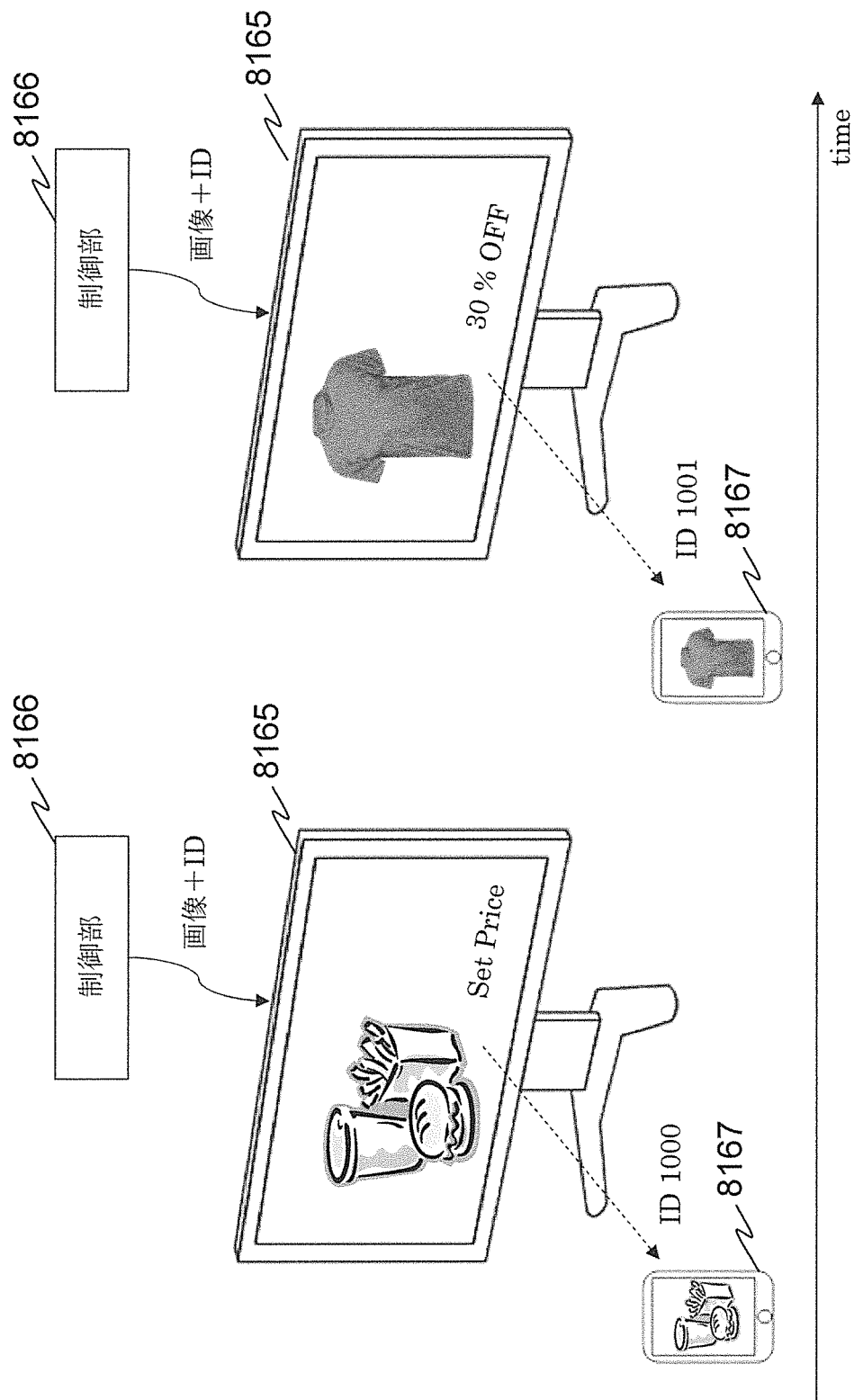
[図392A]



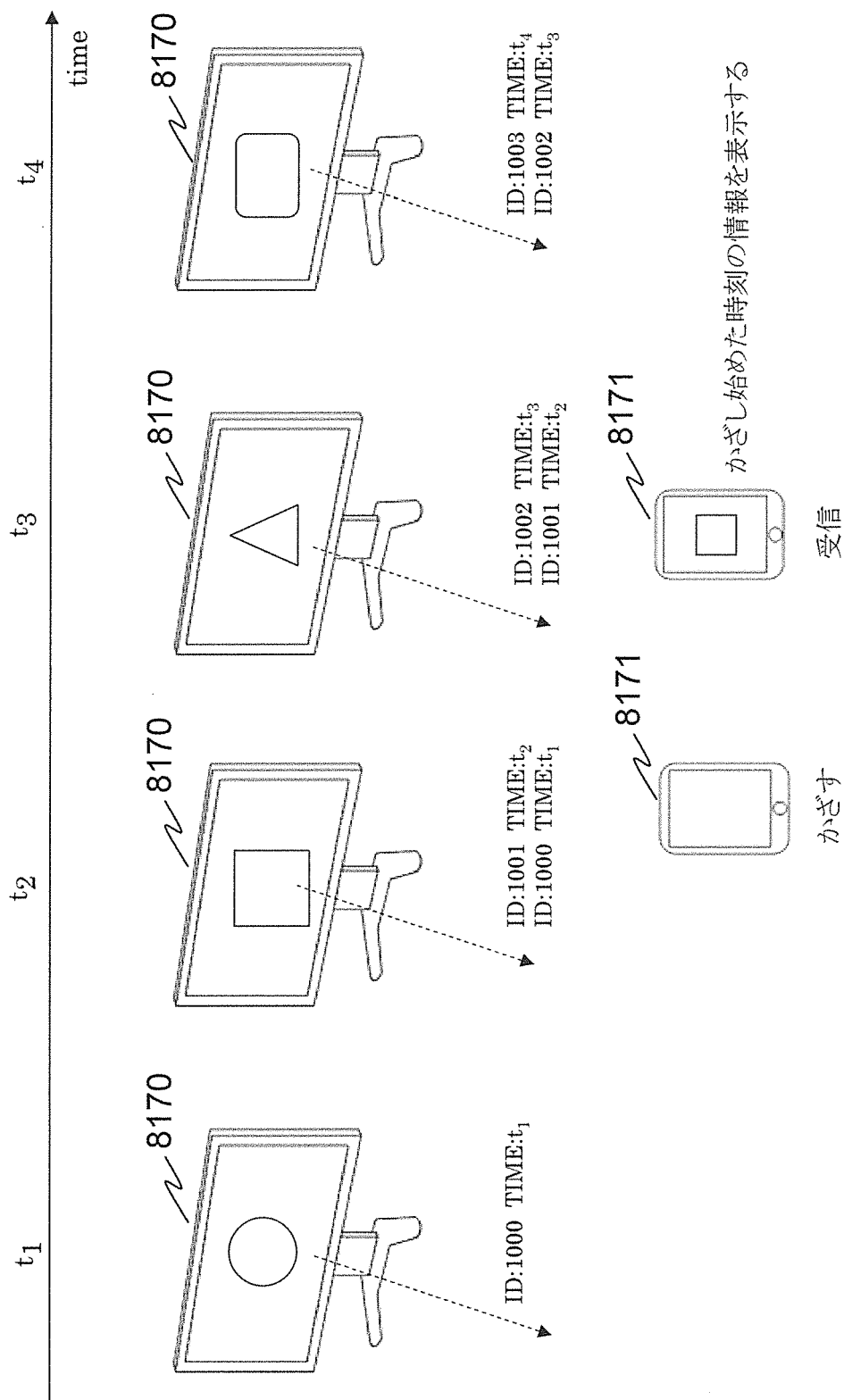
[図392B]



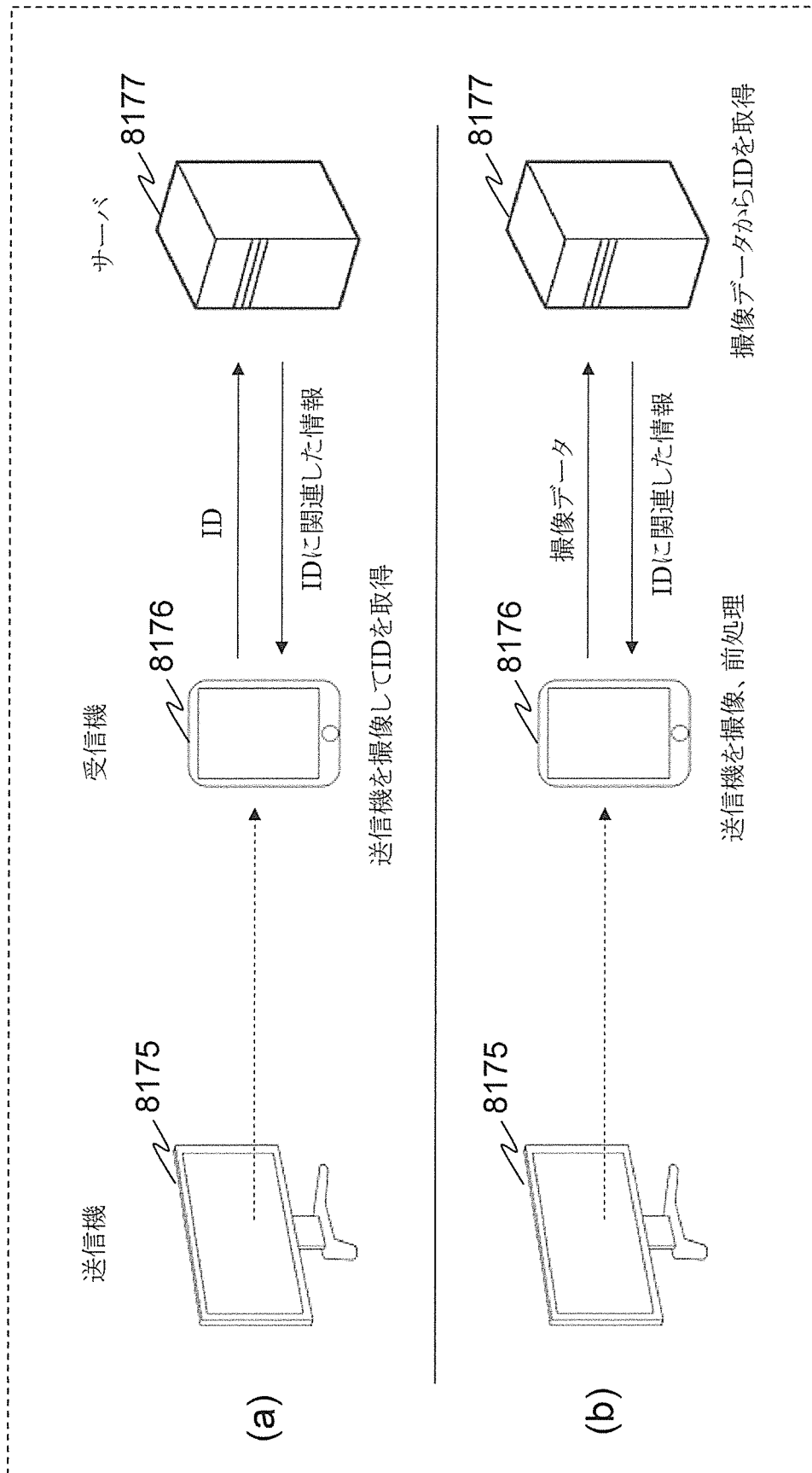
[図393]



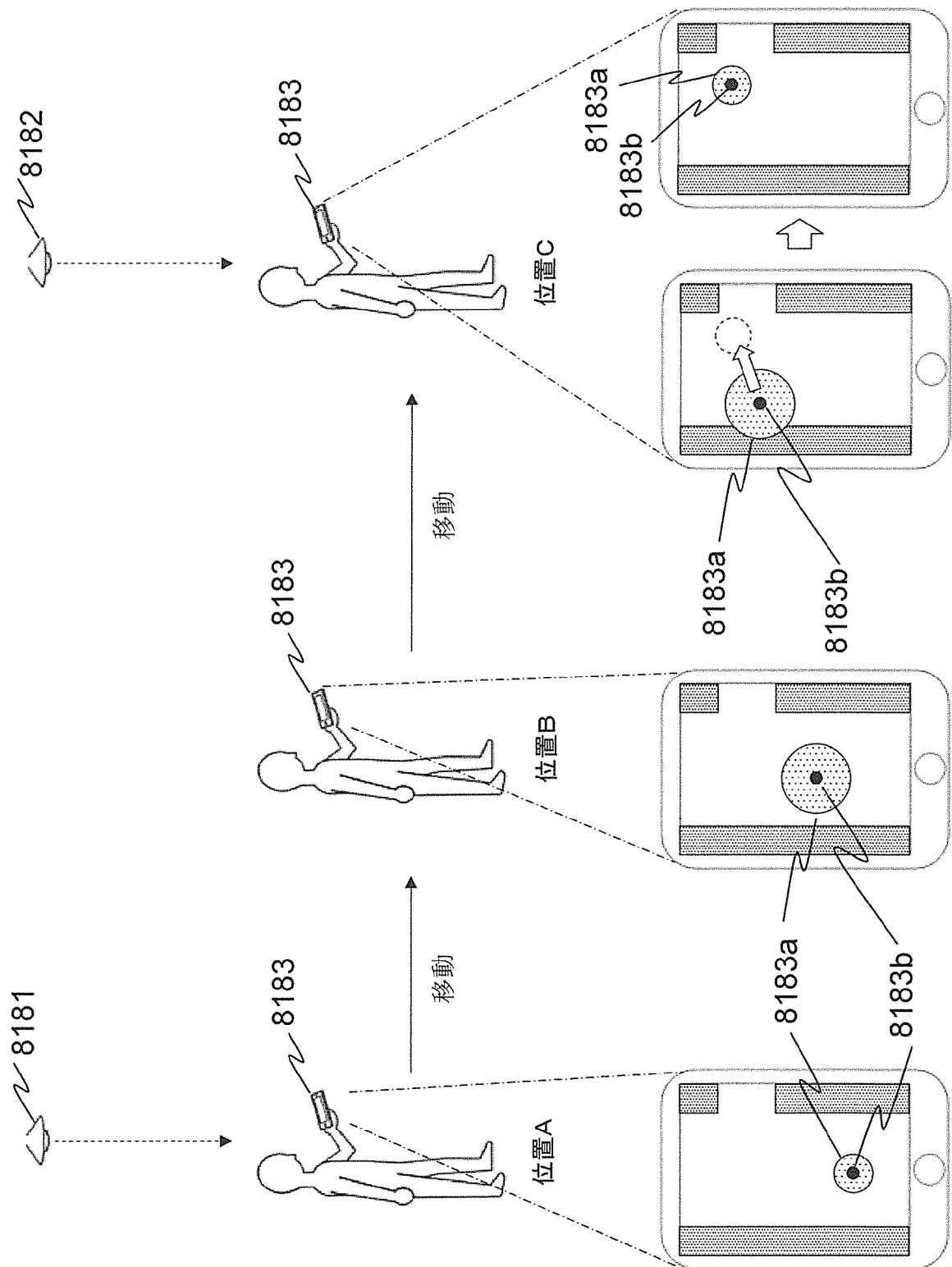
[図394]



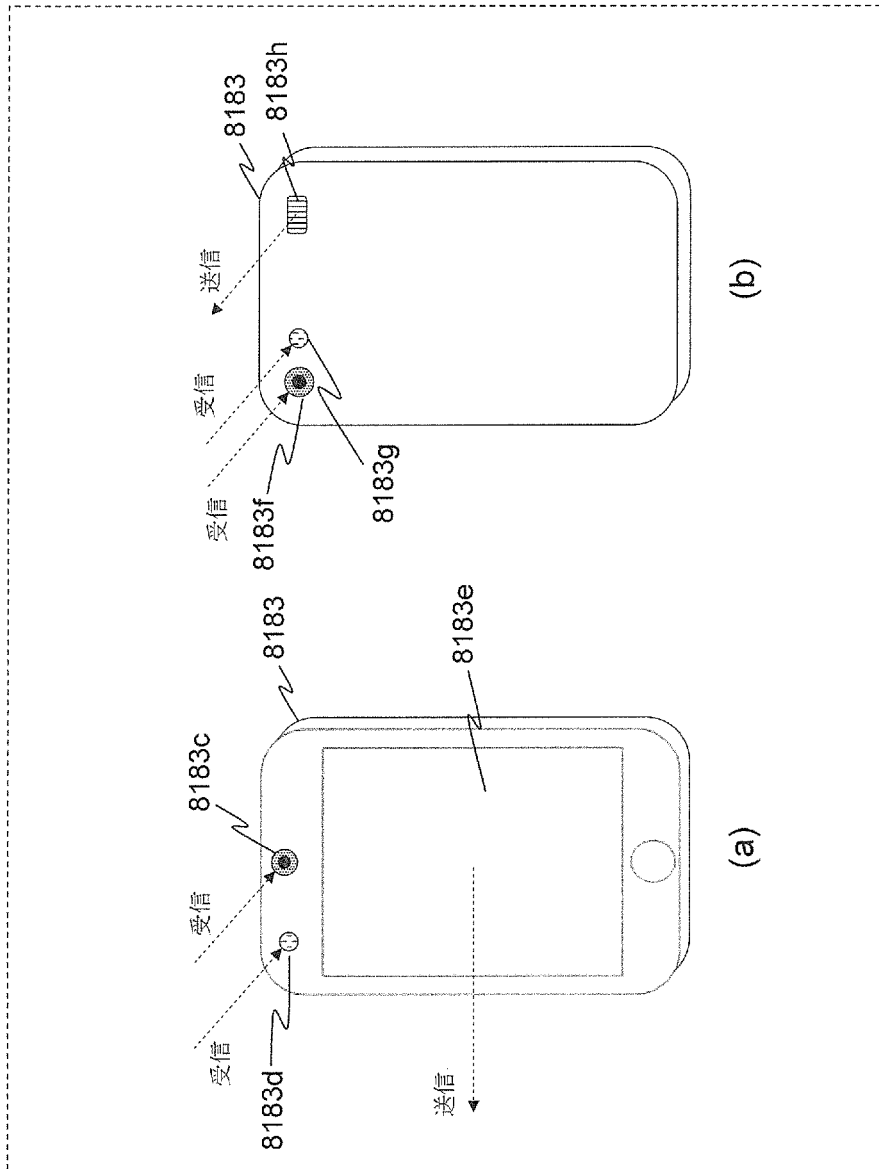
[図395]



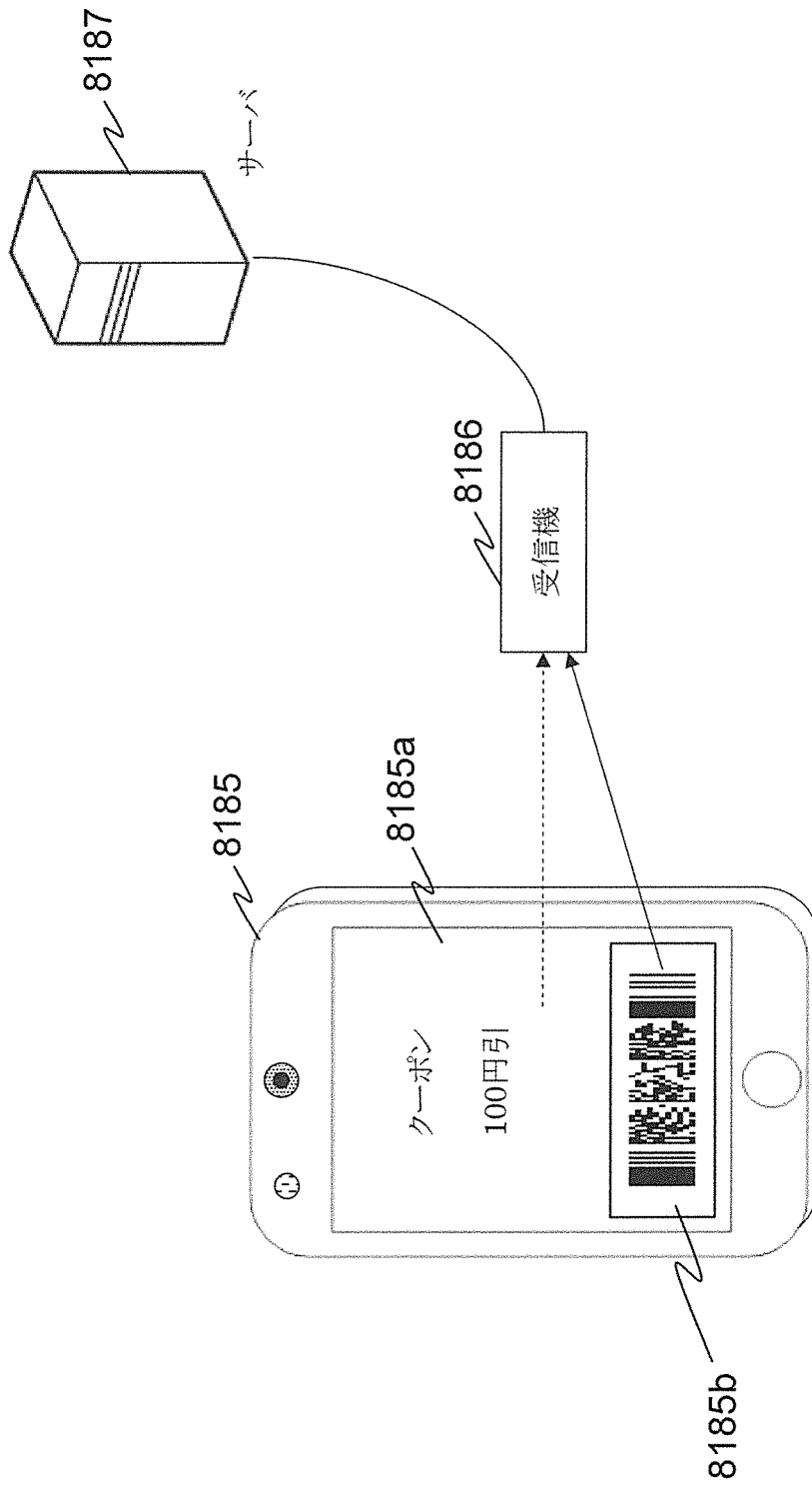
[図396]



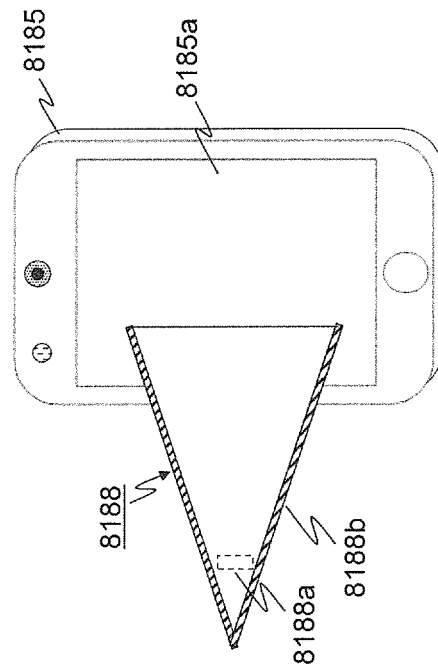
[図397]



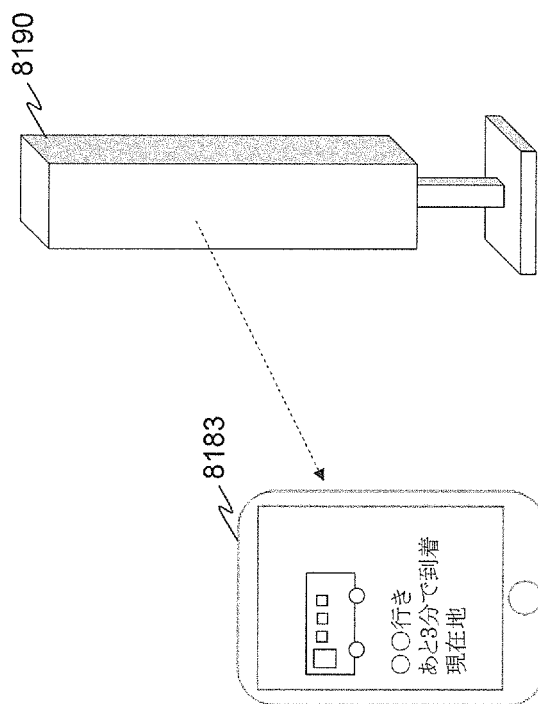
[図398]



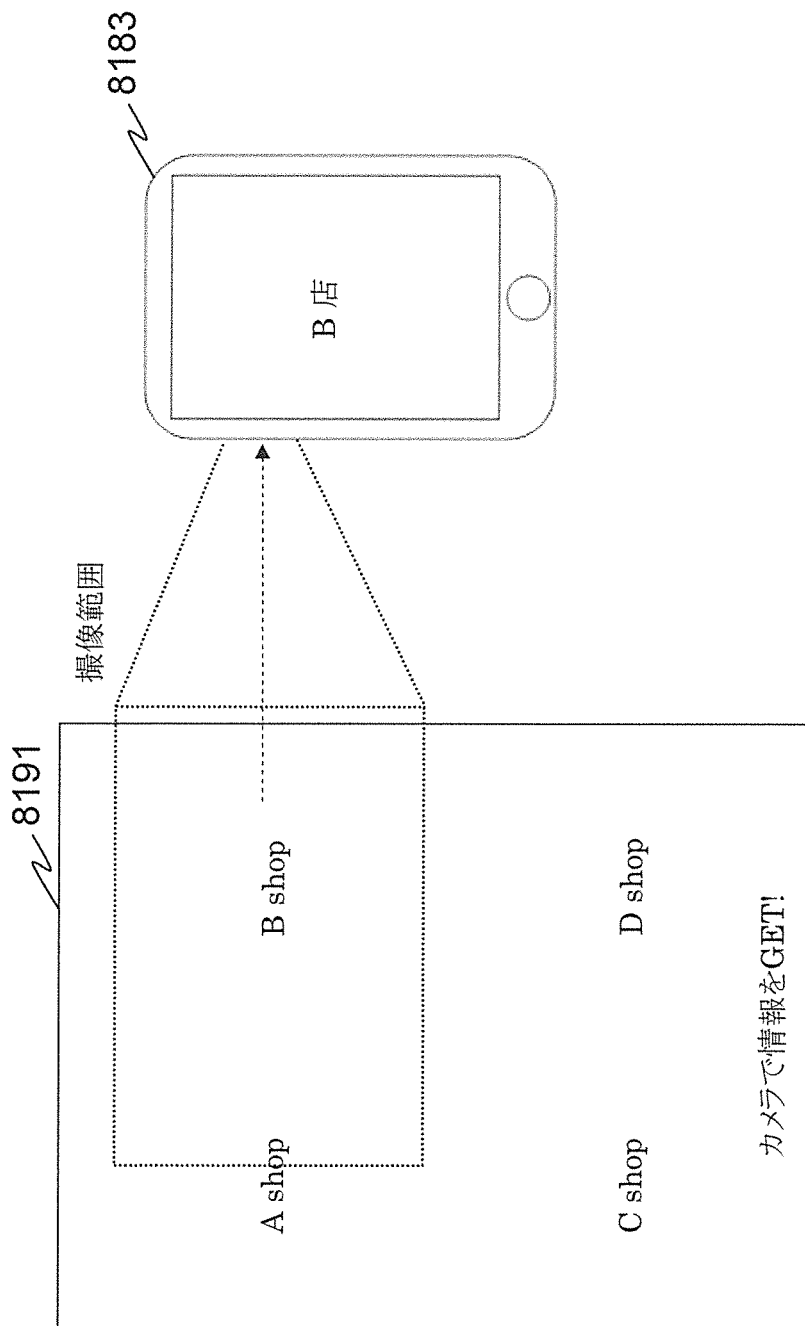
[図399]



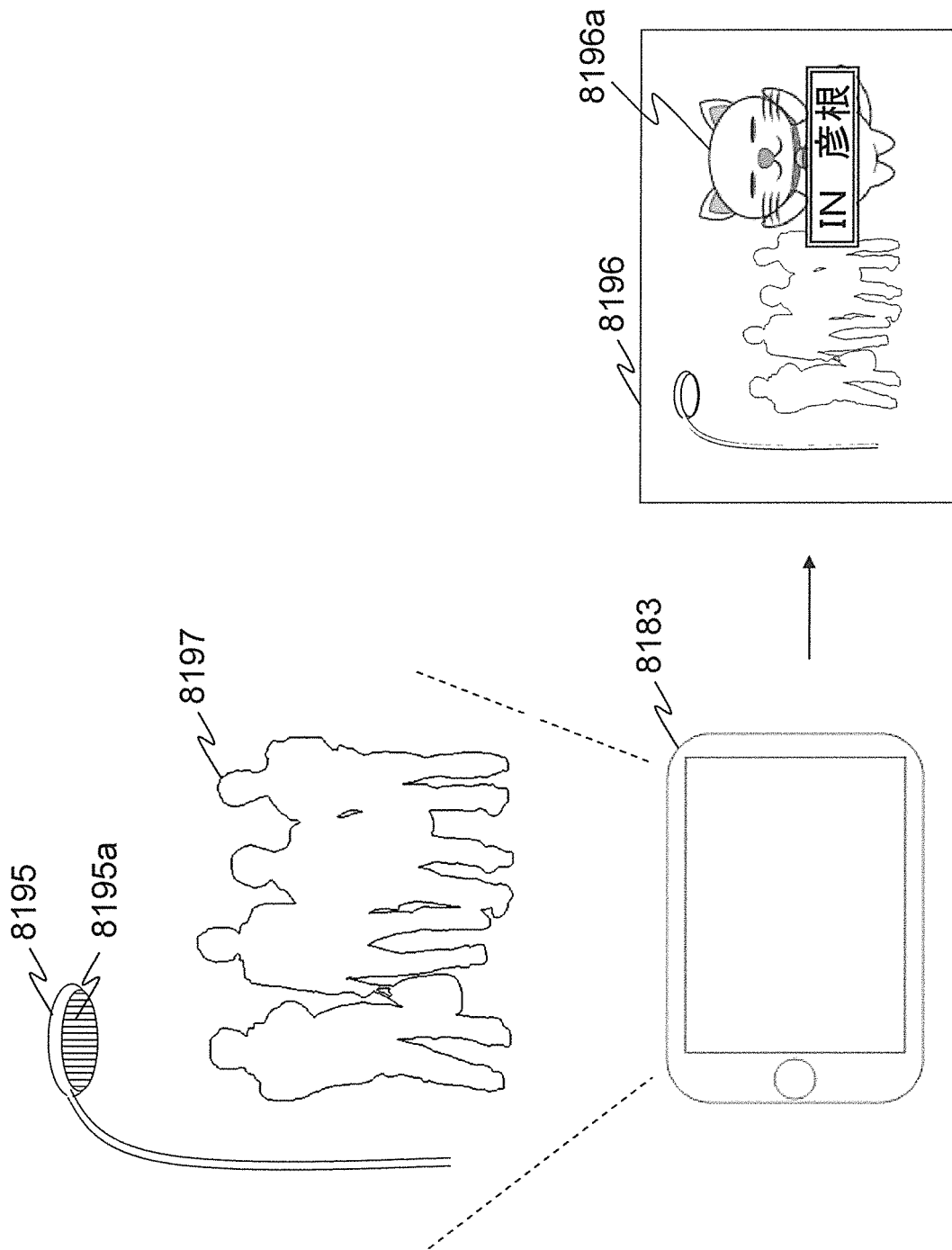
[図400]



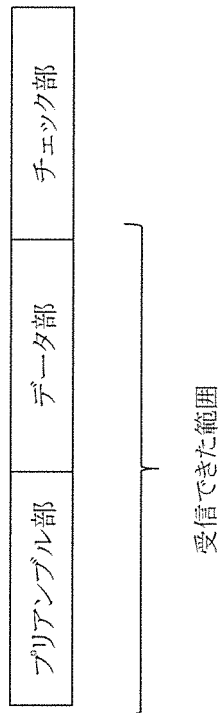
[図401]



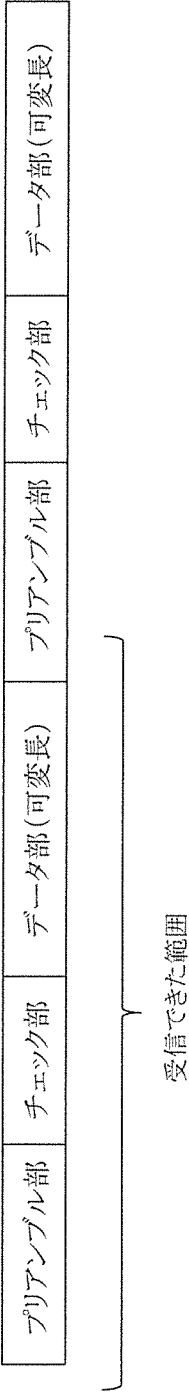
[図402]



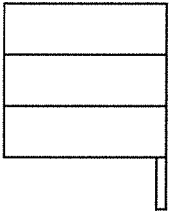
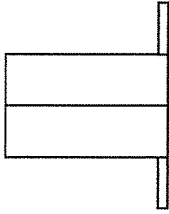
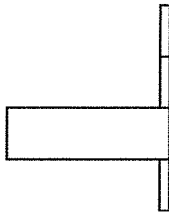
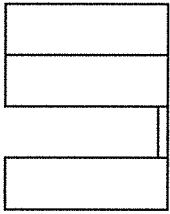
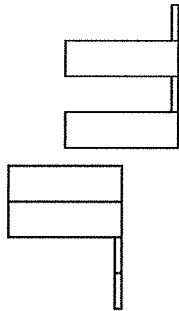
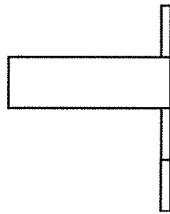
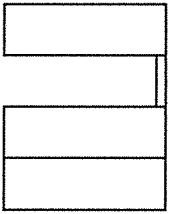
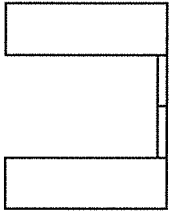
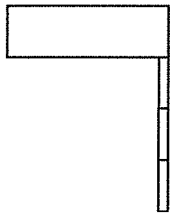
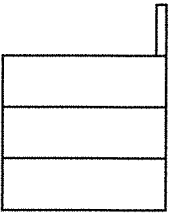
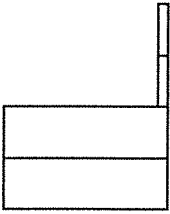
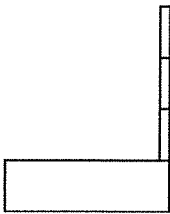
[図403A]



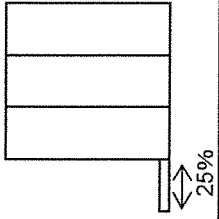
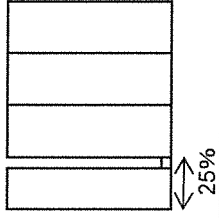
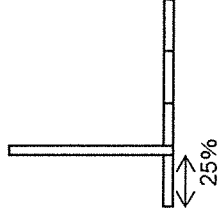
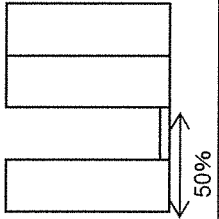
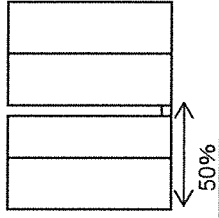
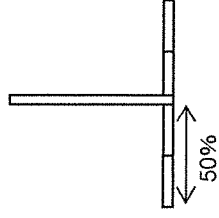
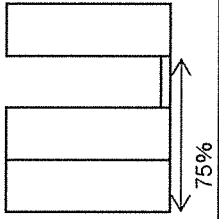
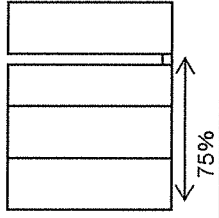
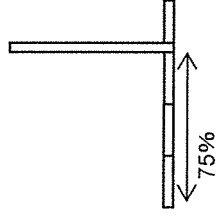
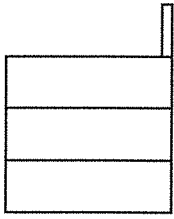
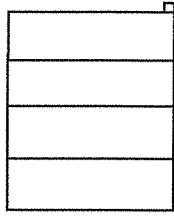
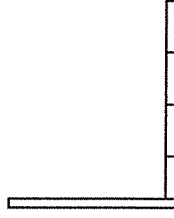
[図403B]



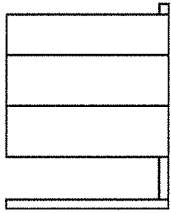
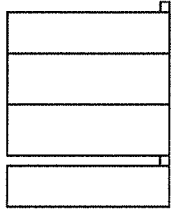
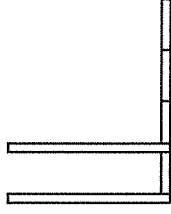
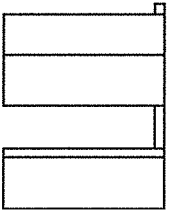
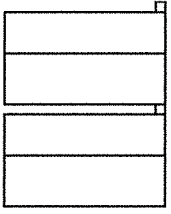
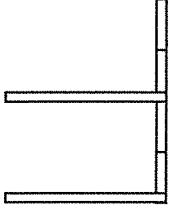
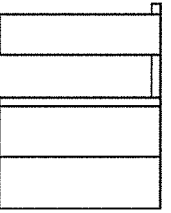
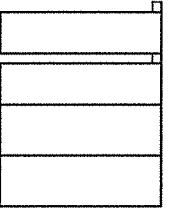
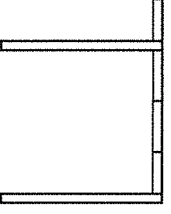
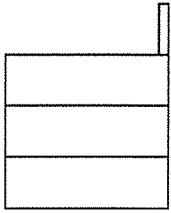
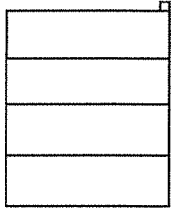
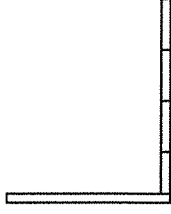
[図404]

信号	立ち上がり位置	明るさ		
		75 %	50 %	25 %
00	1→2 スロット間			
01	2→3 スロット間			
10	3→4 スロット間			
11	なし			

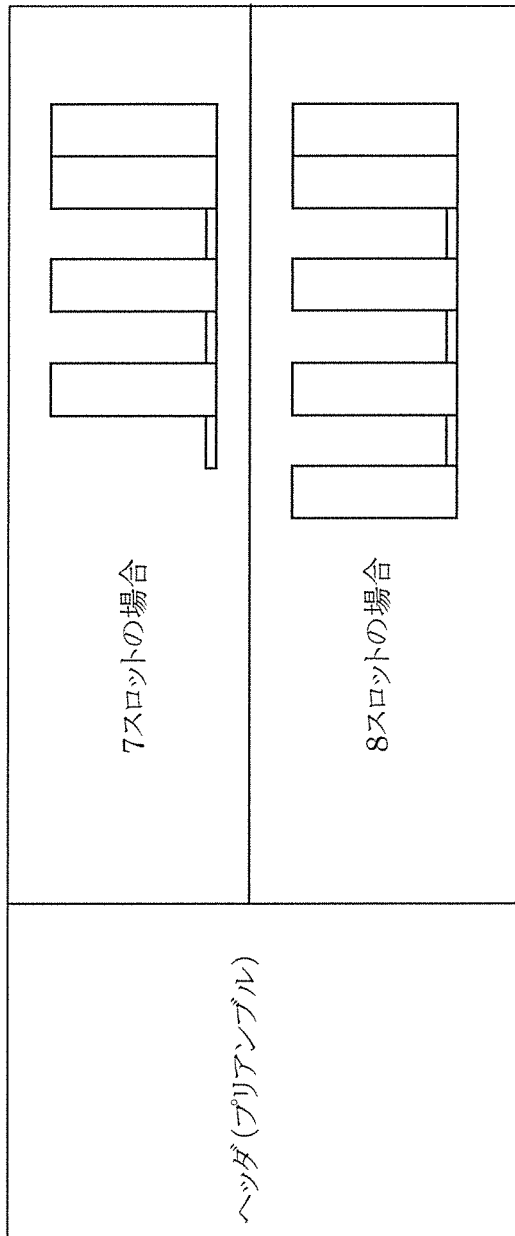
[図405]

信号	立ち上がり位置	明るさ		
		75 % (基本)	99 %	1 %
00	25 % の位置			
01	50 % の位置			
10	75 % の位置			
11	なし			

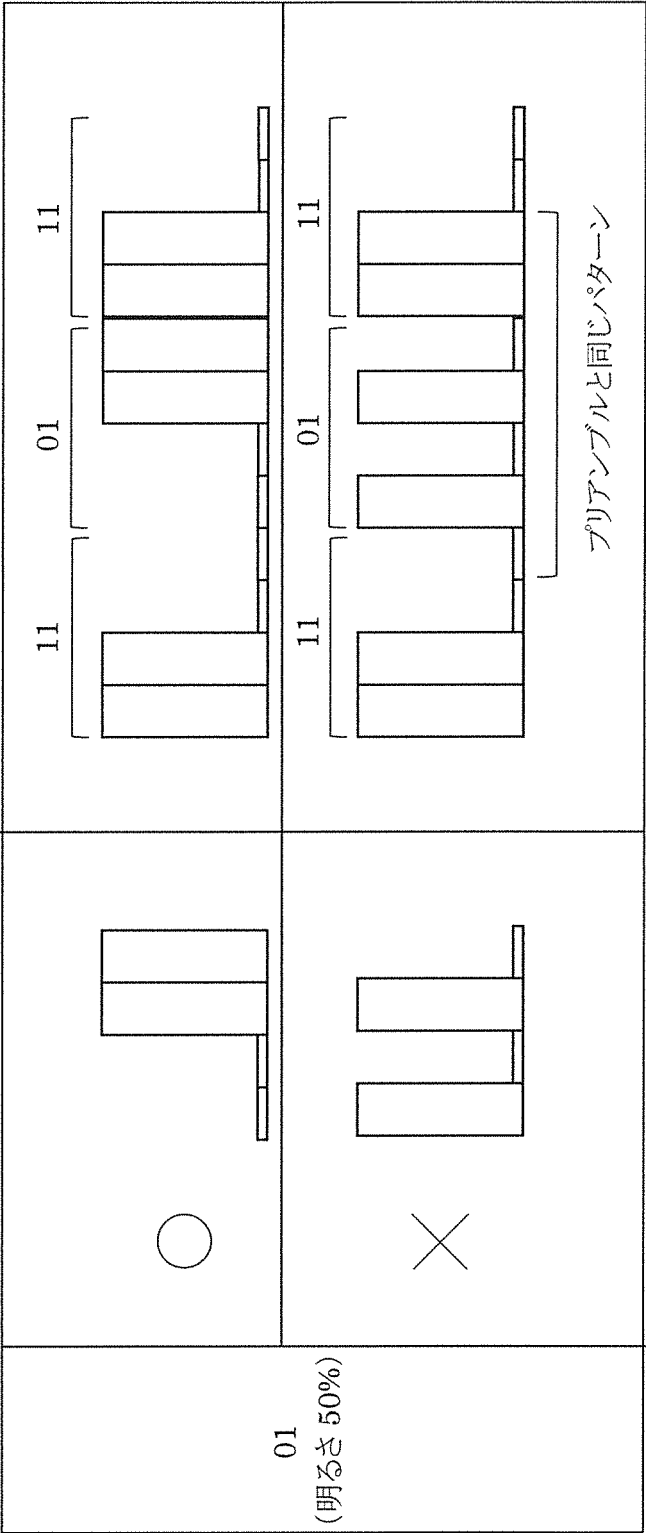
[図406]

信号	立ち上がり位置	明るさ		
		75 %	99 %	1 %
00	25 % の位置			
01	50 % の位置			
10	75 % の位置			
11	なし			

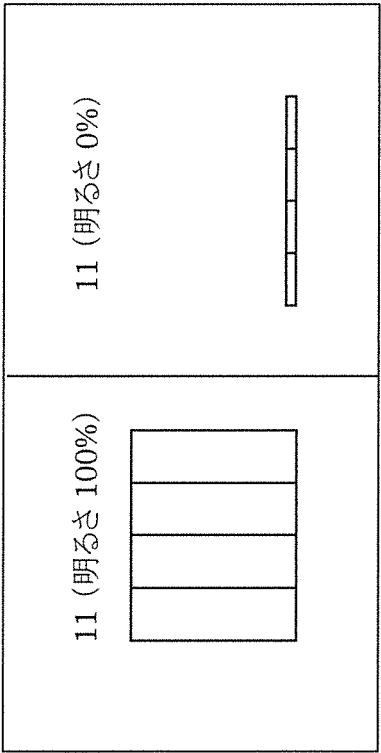
[図407A]



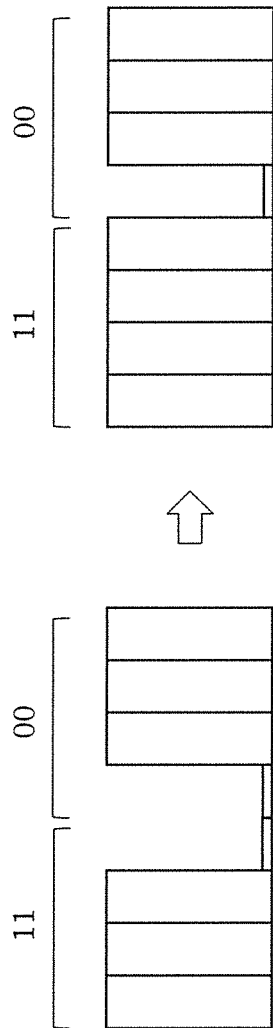
[図407B]



[図408A]

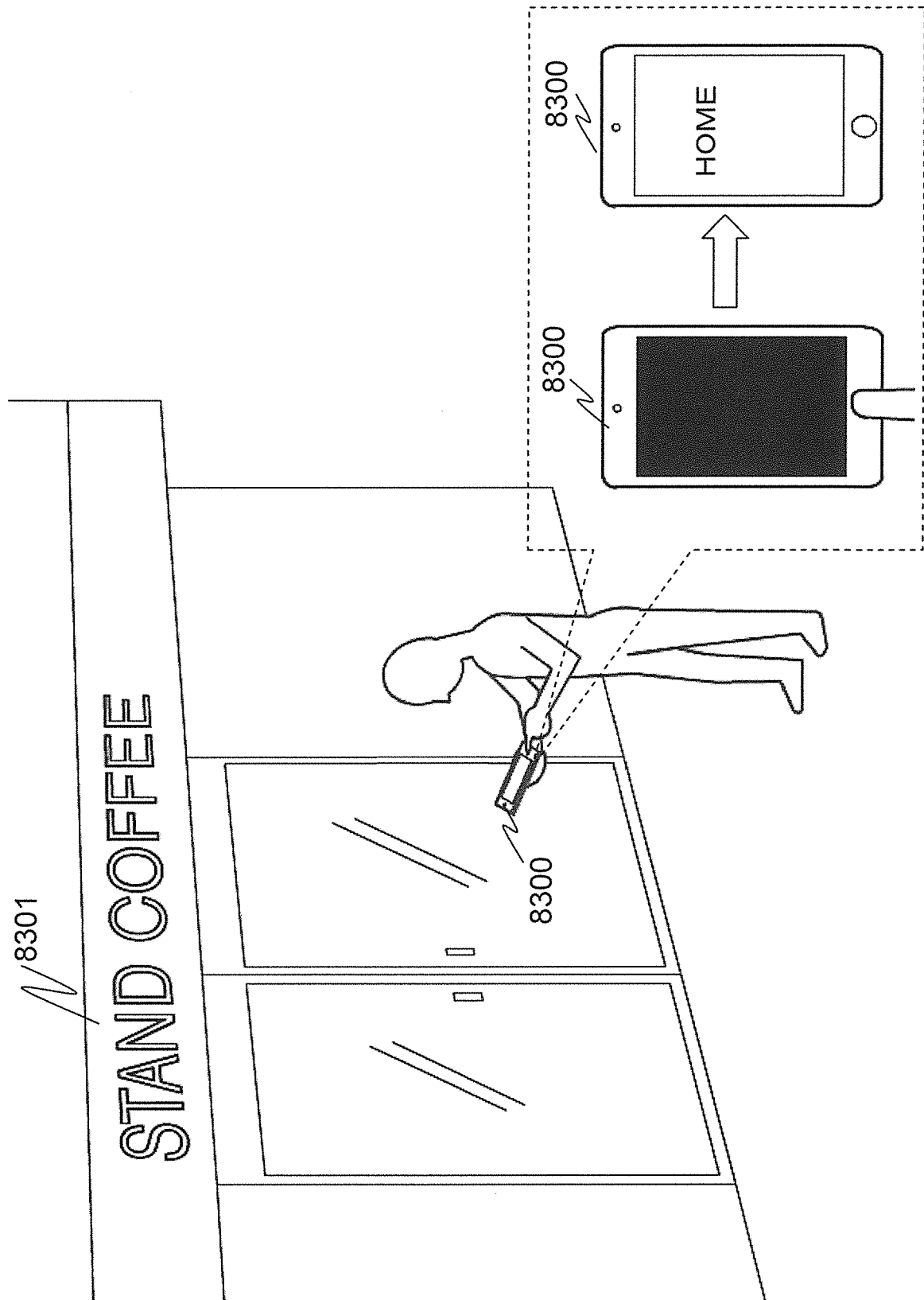


[図408B]

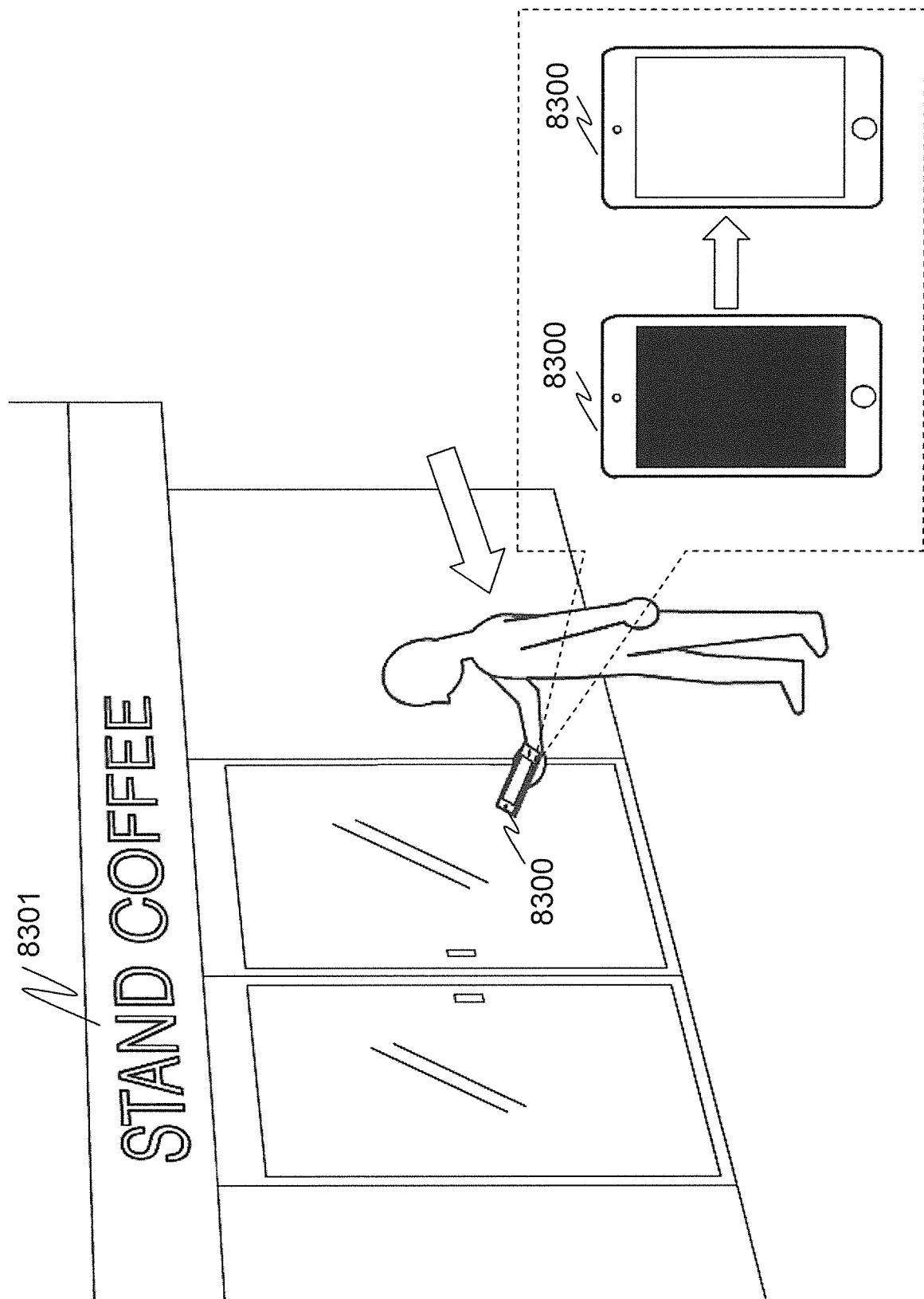


Lが連続する場合は、最後のL以外をHにする

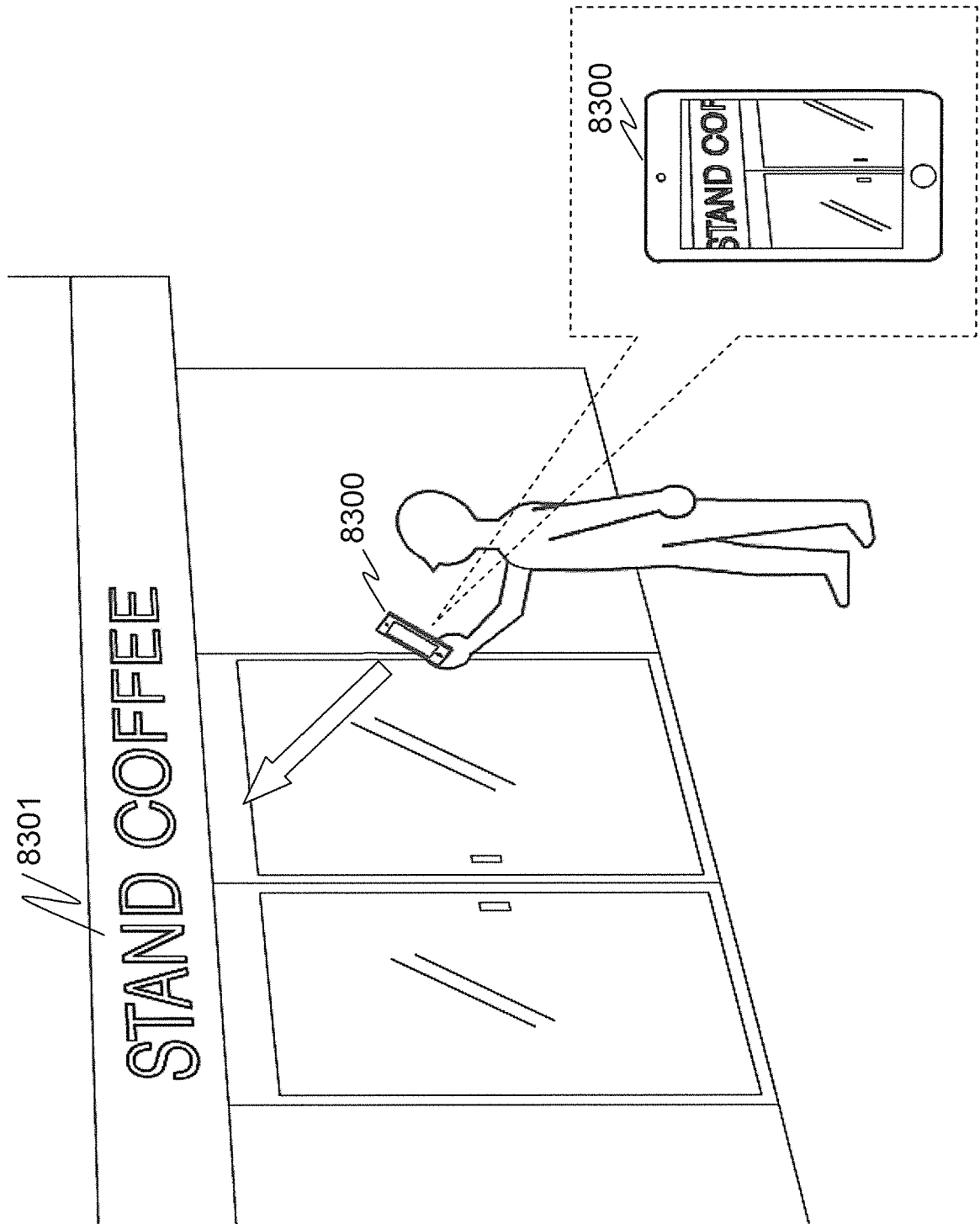
[図409]



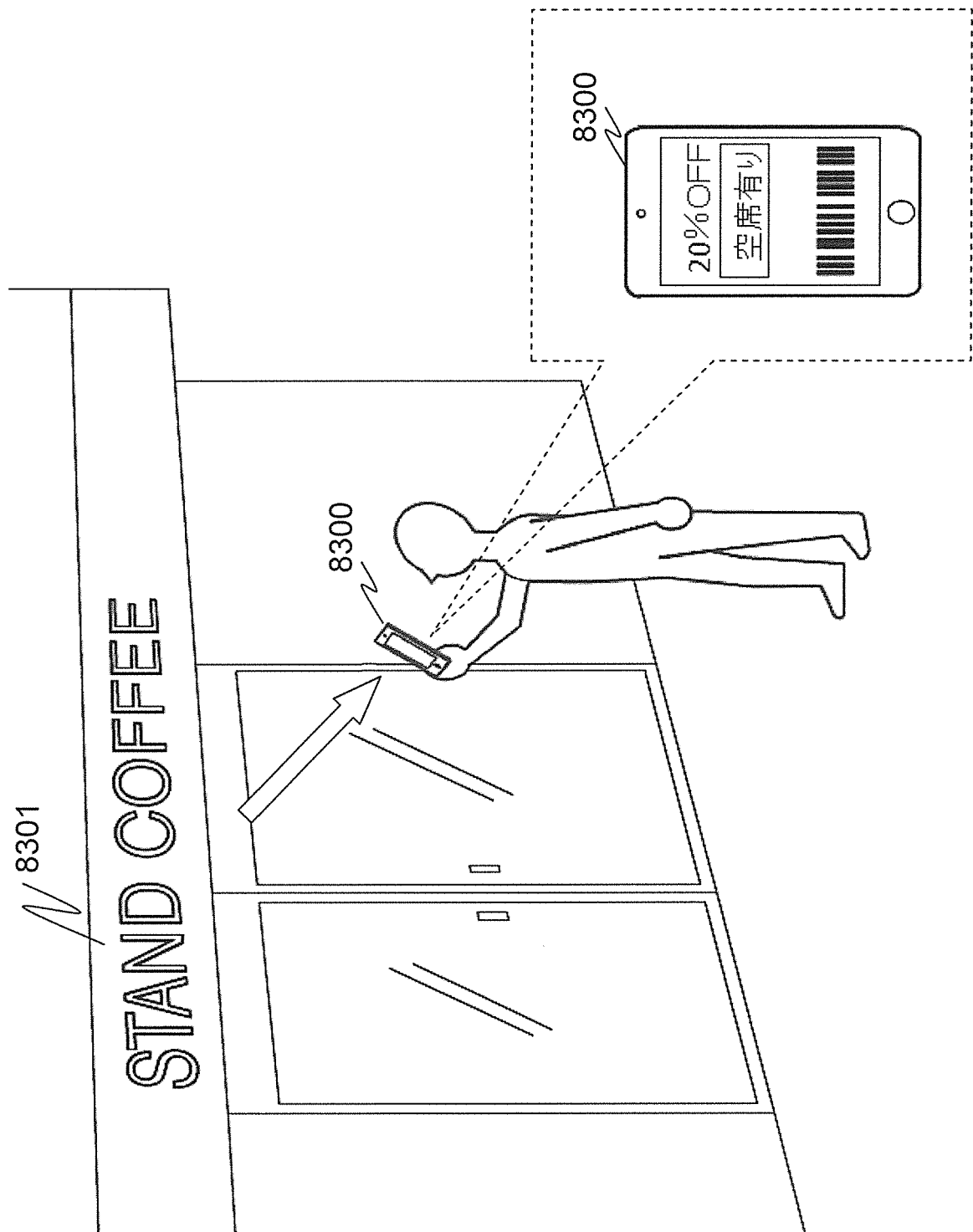
[図410]



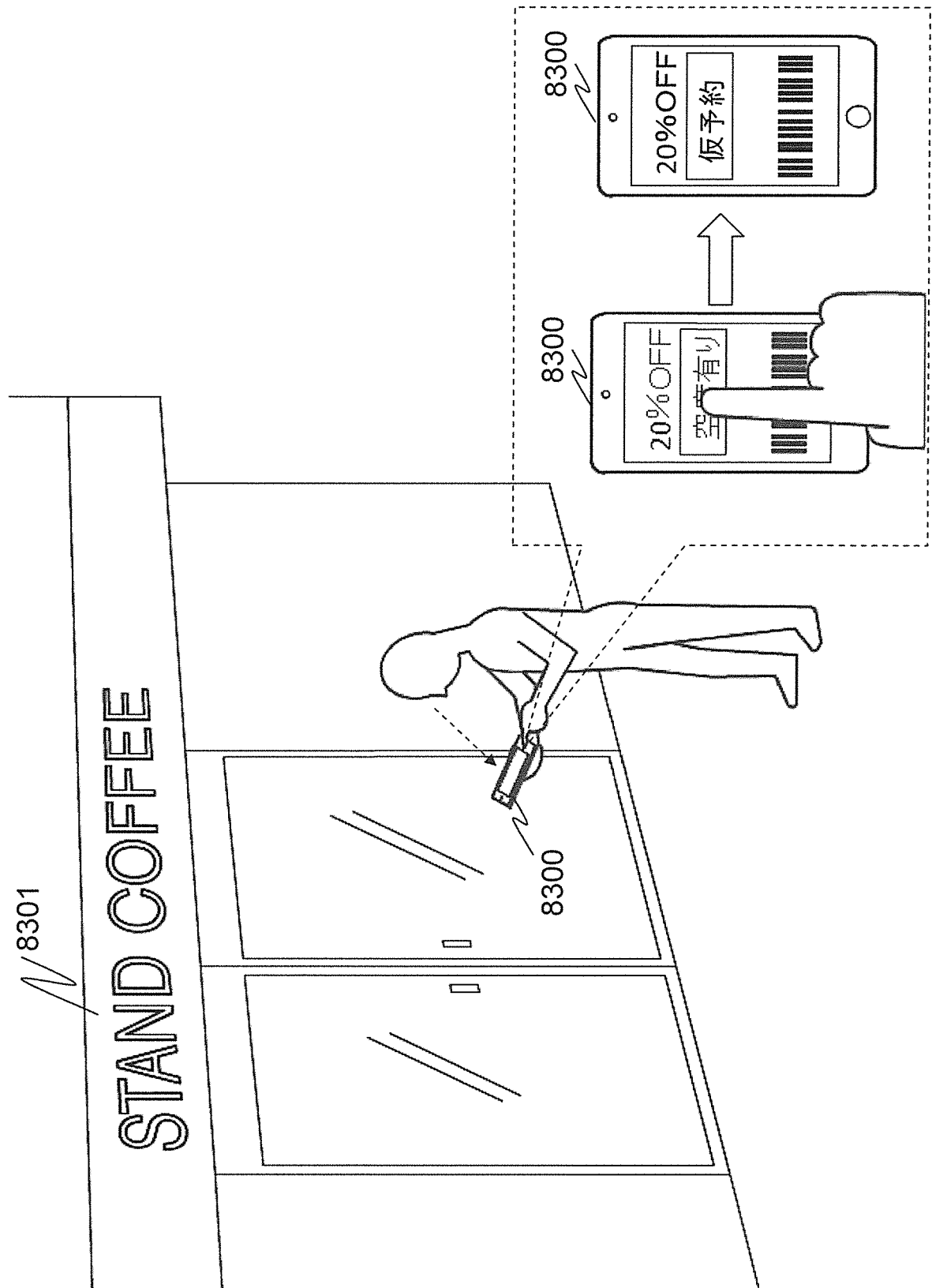
[図411]



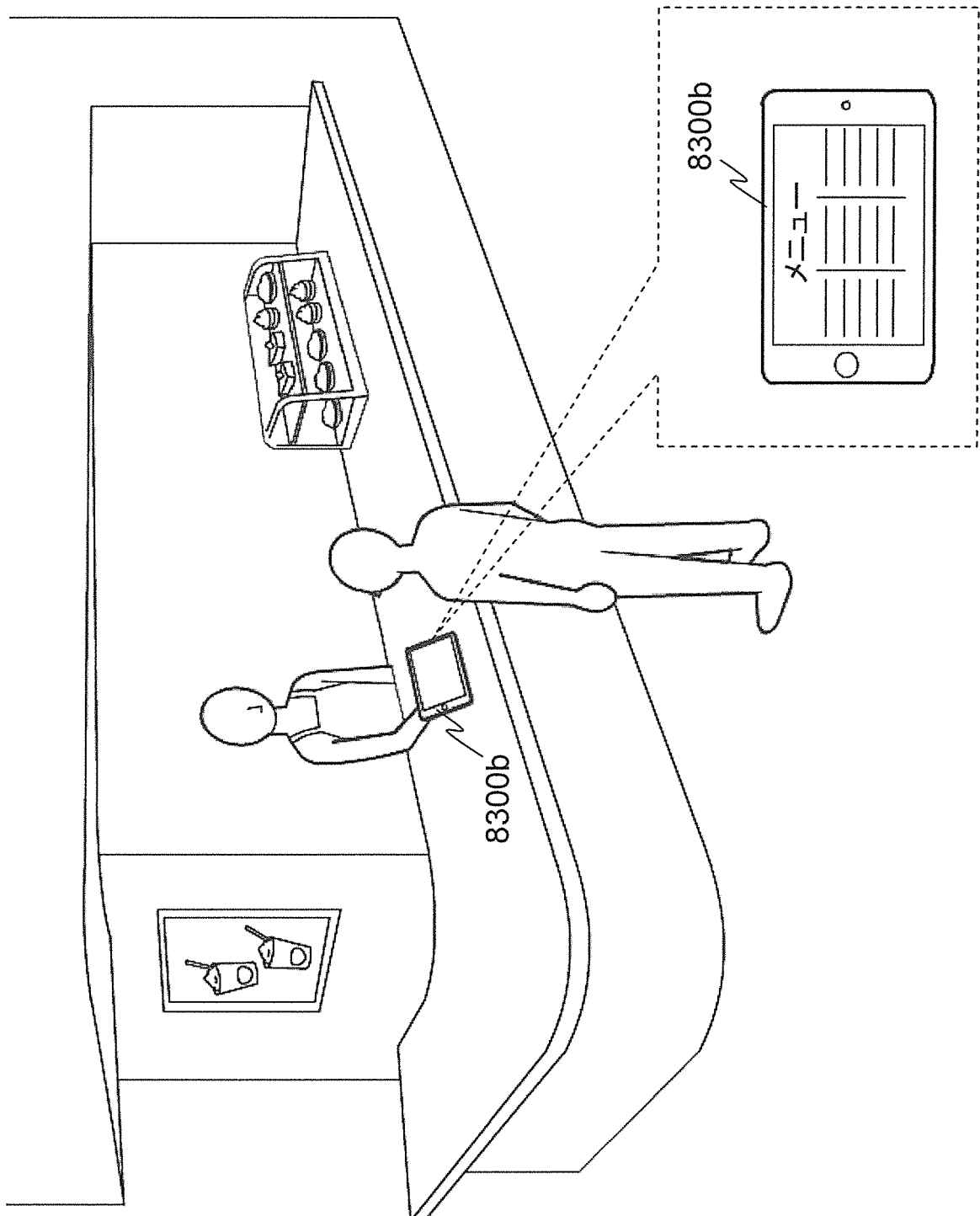
[図412]



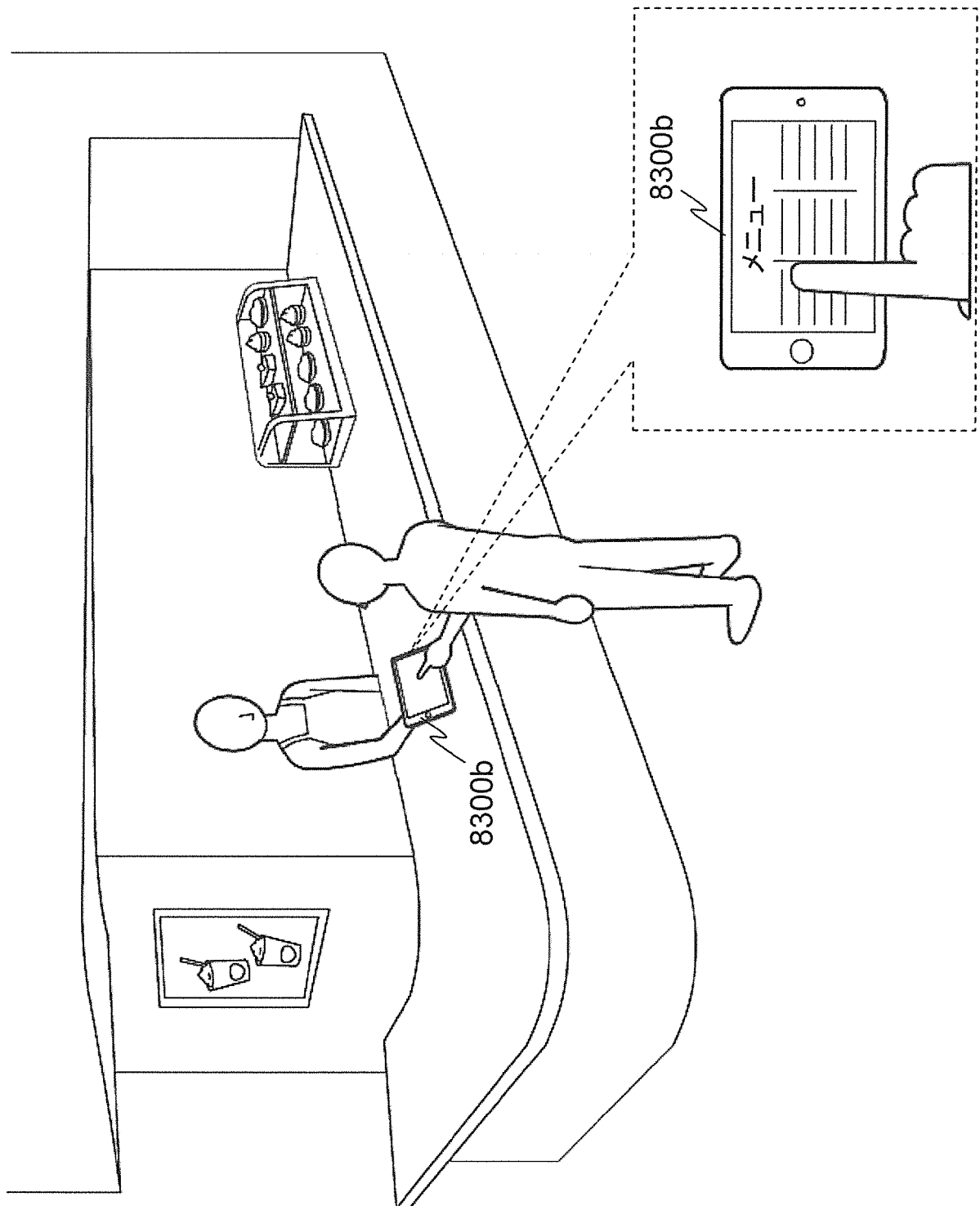
[図413]



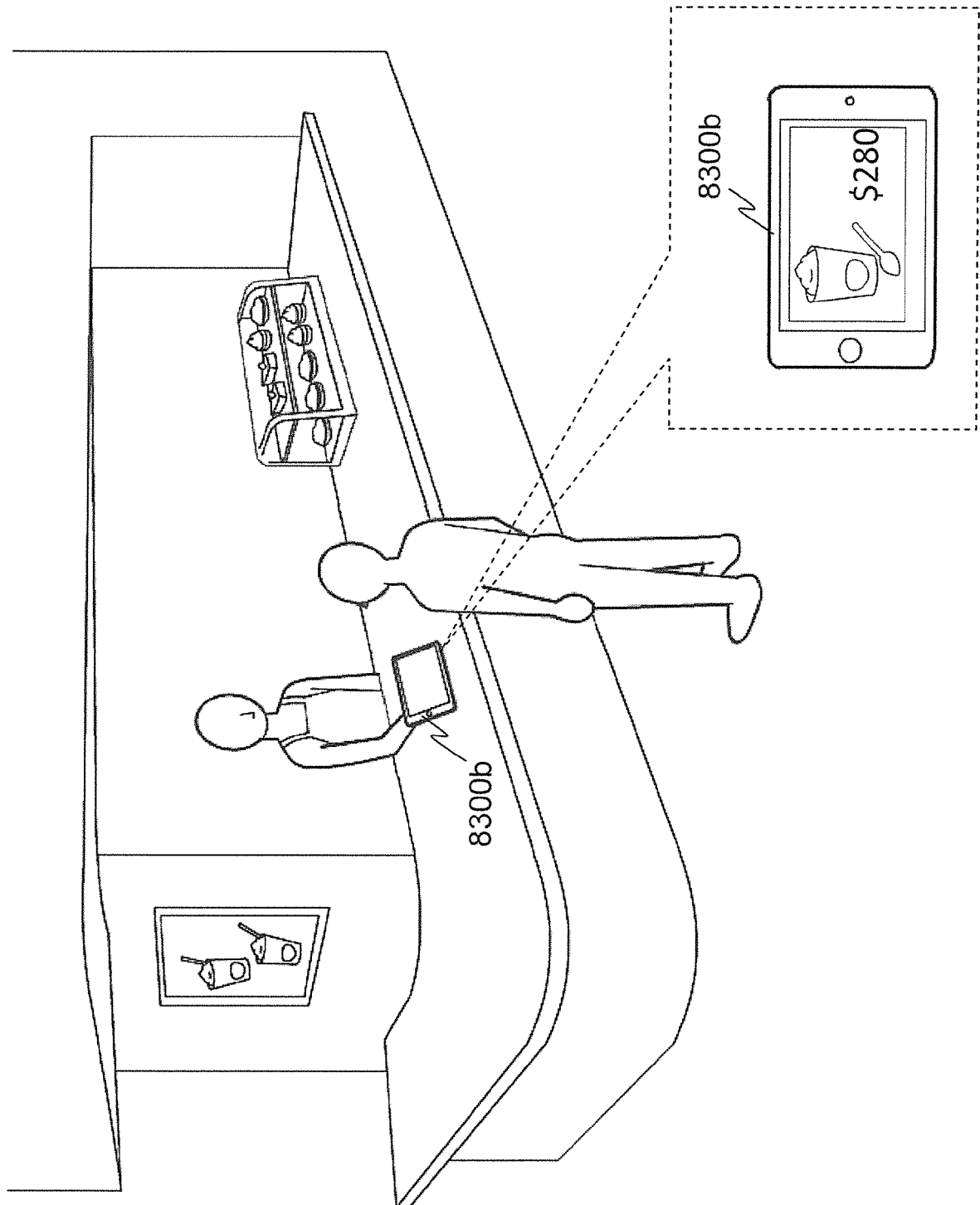
[図414]



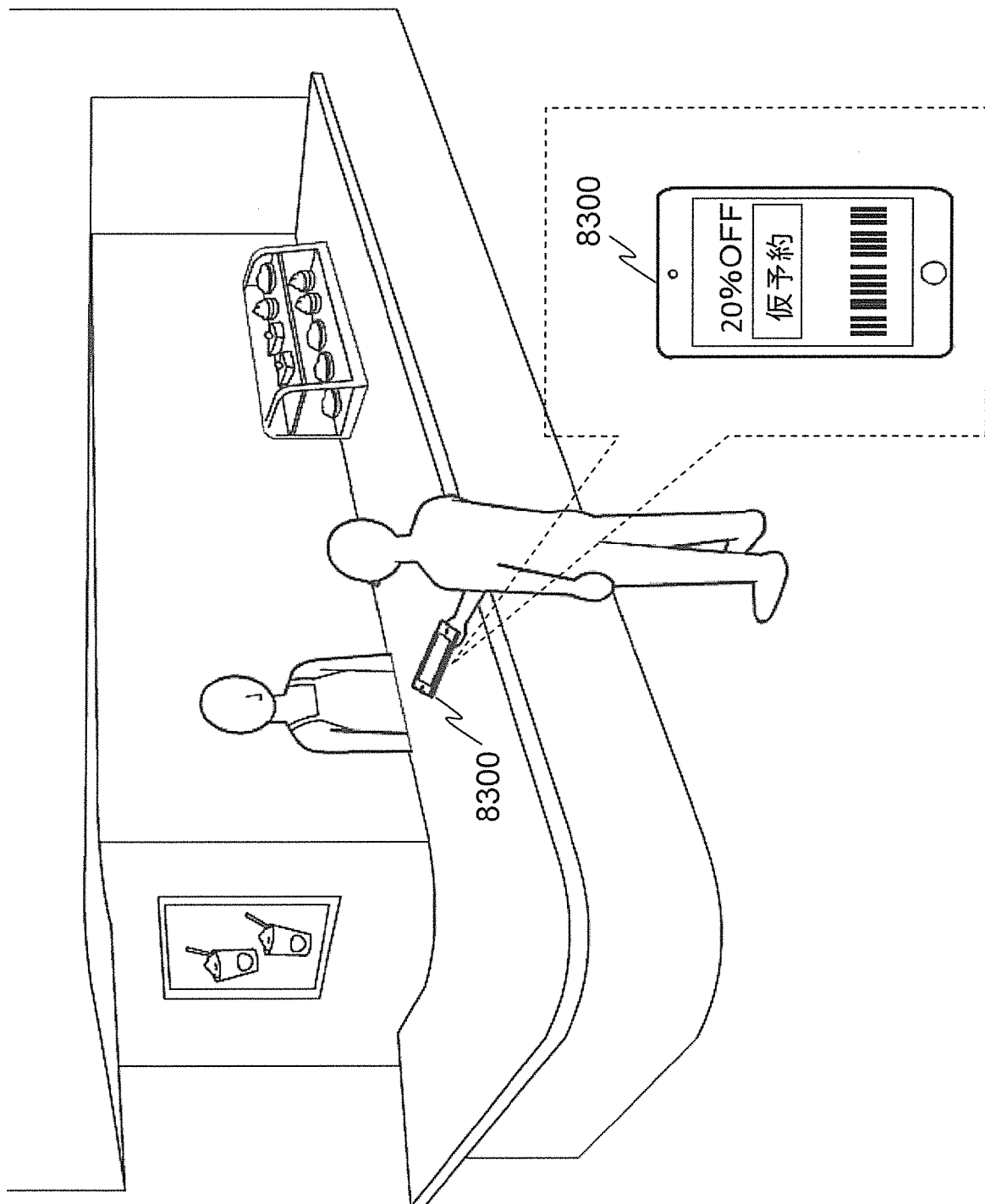
[図415]



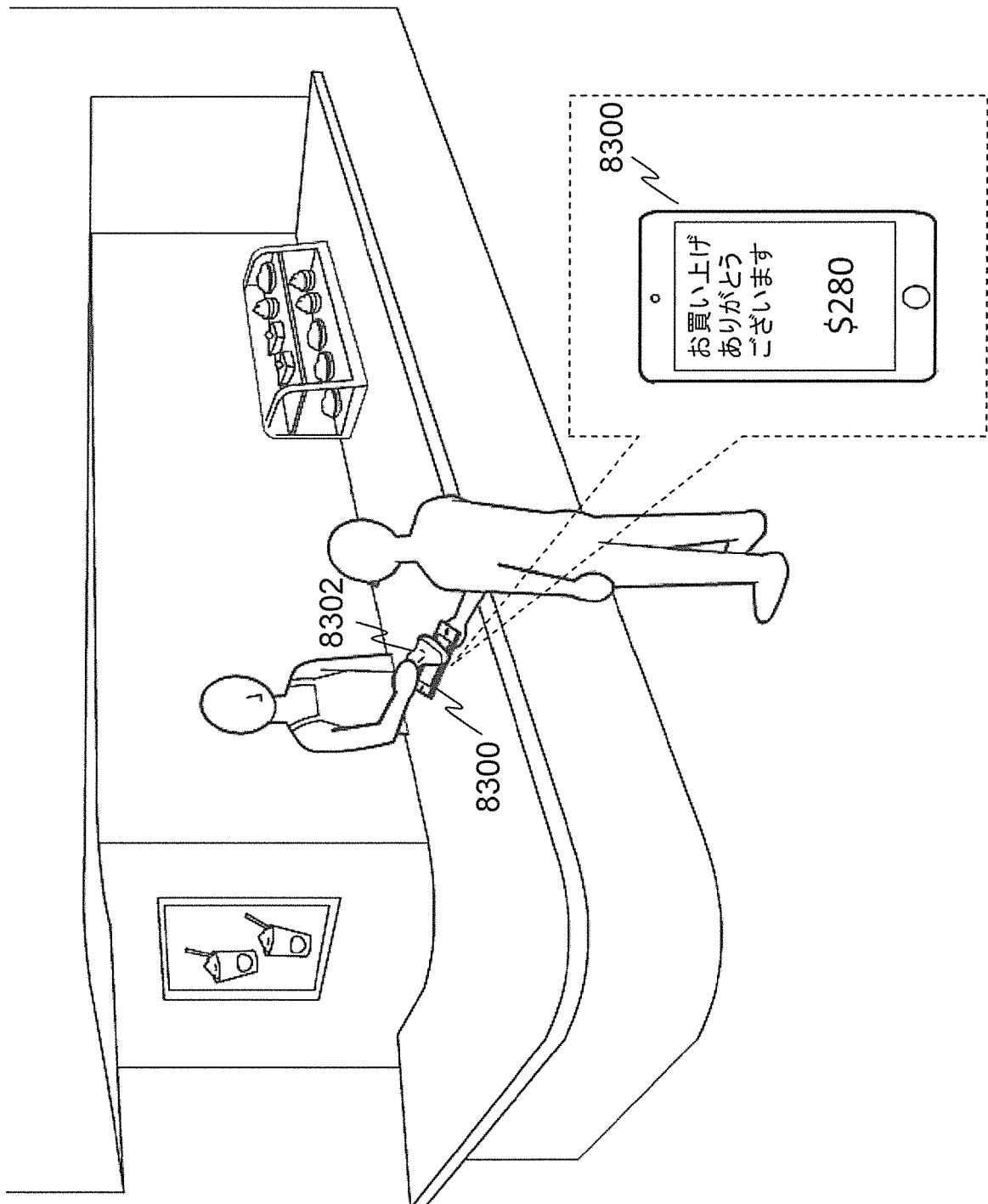
[図416]



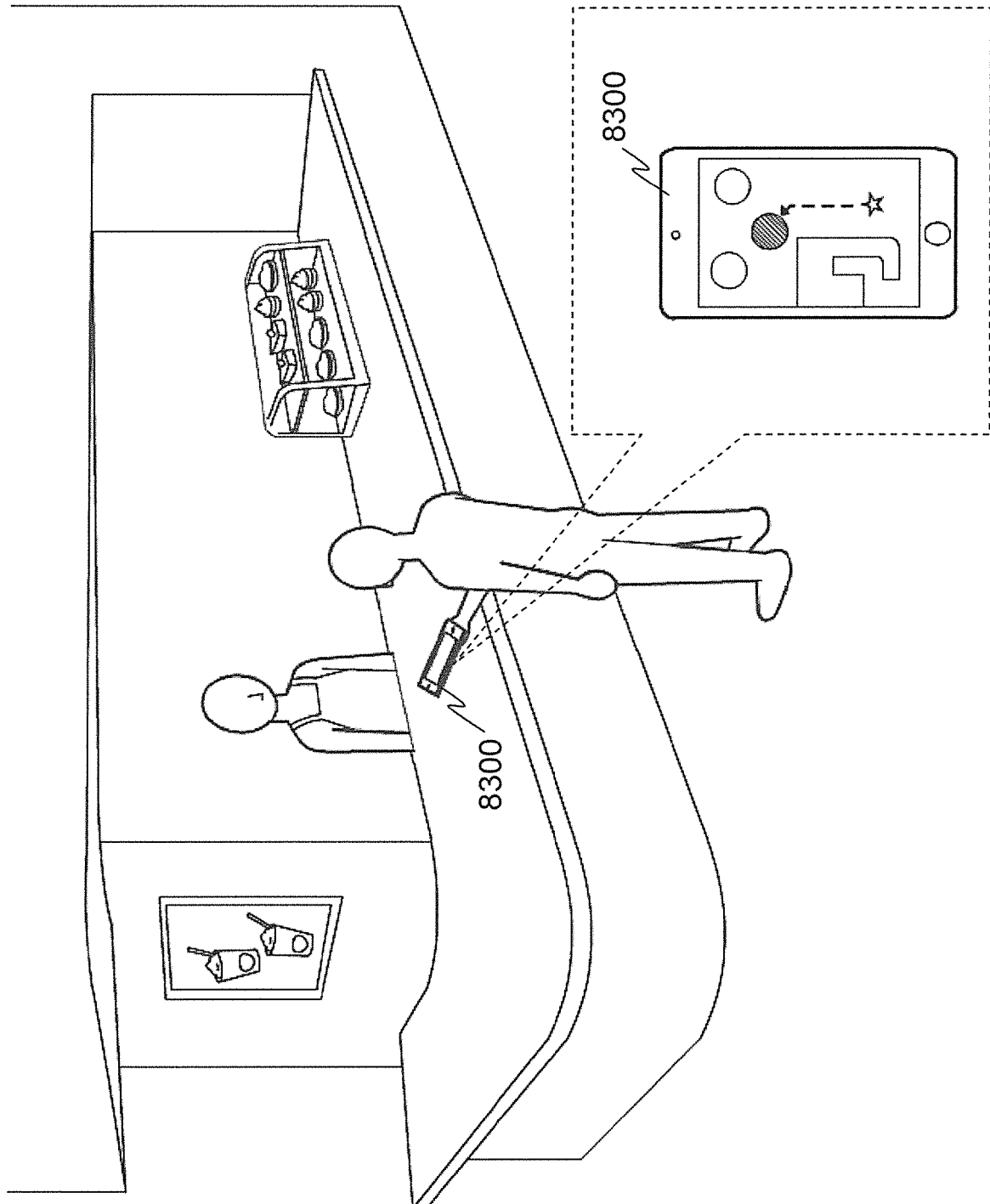
[図417]



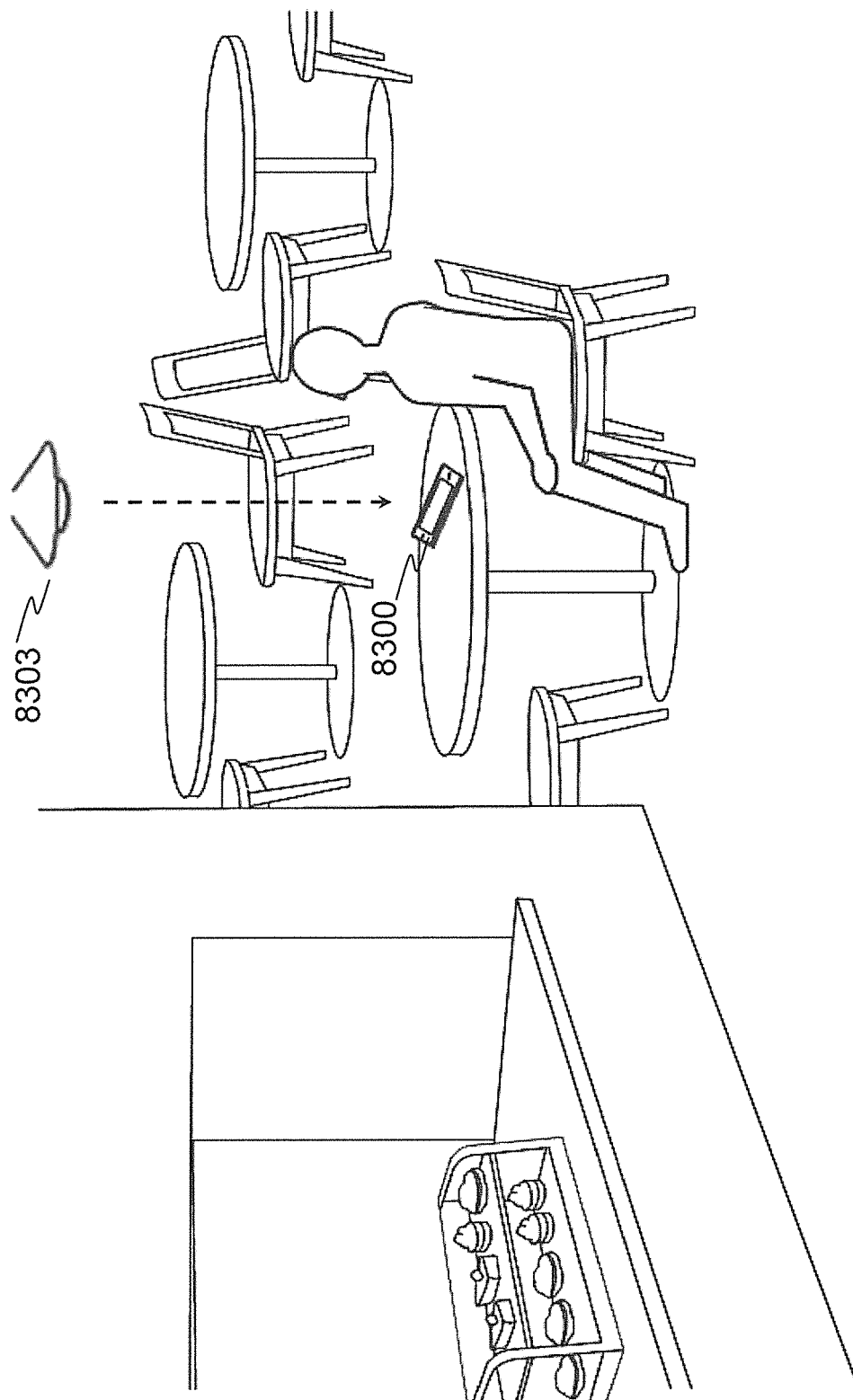
[図418]



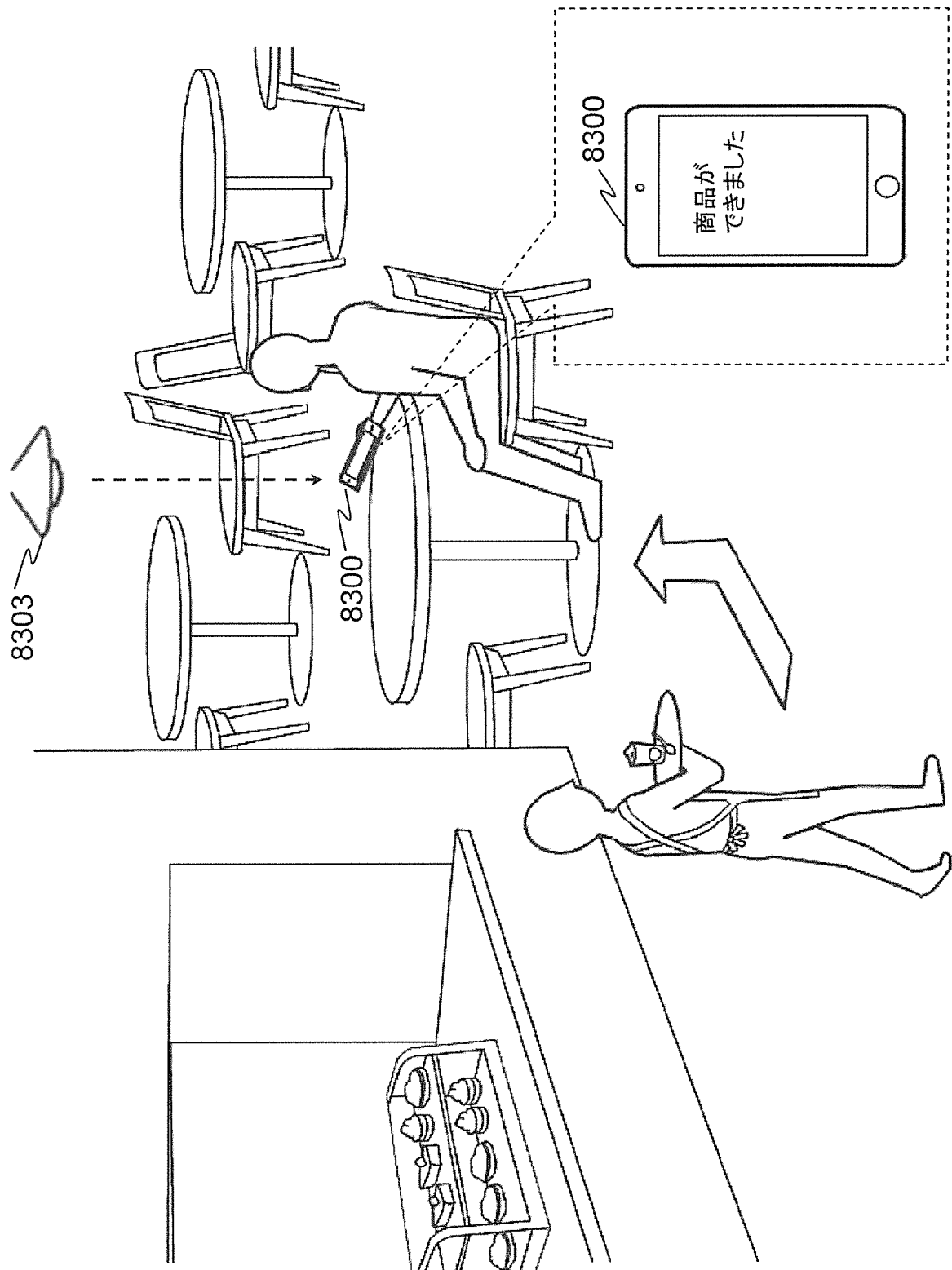
[図419]



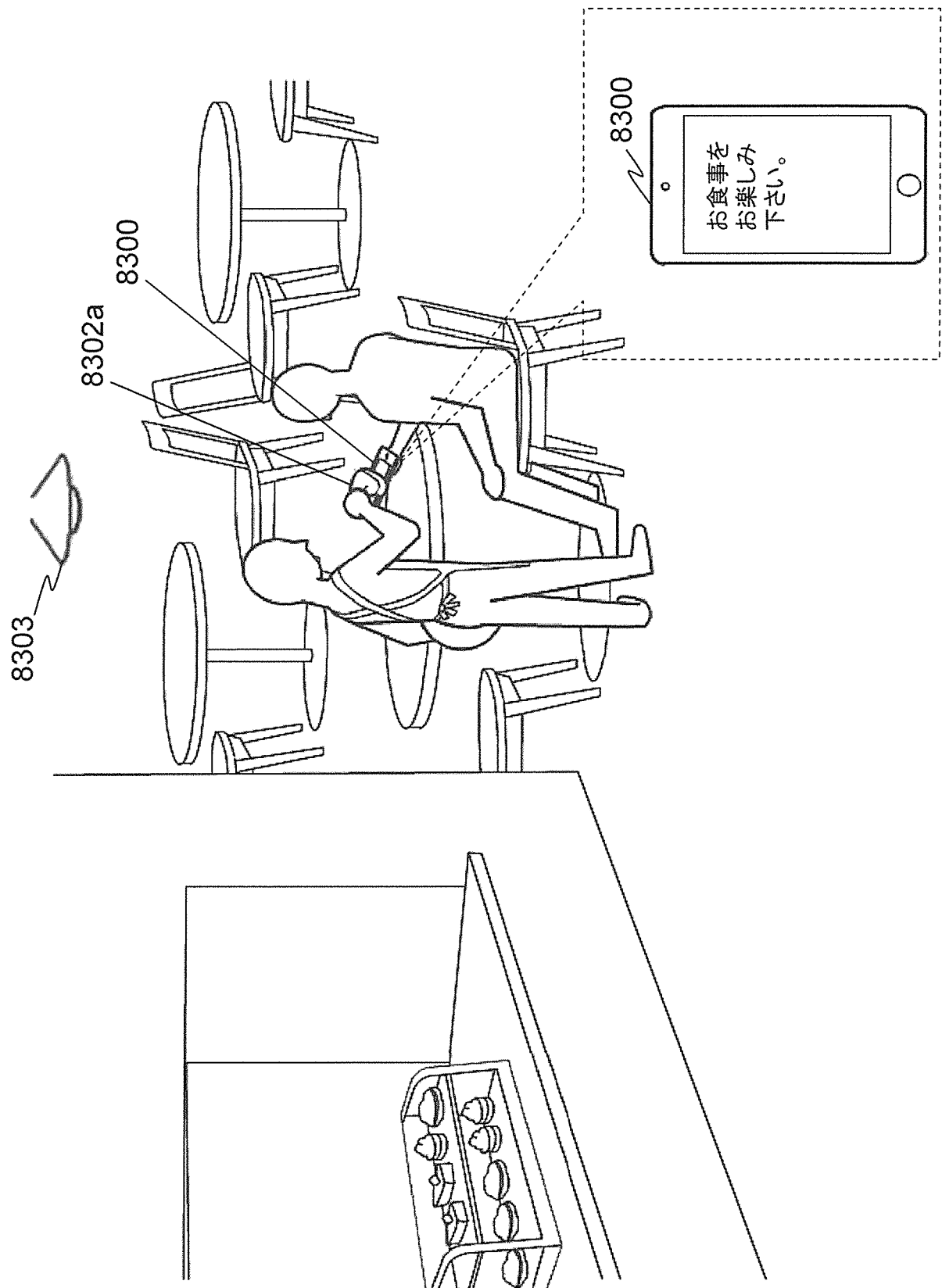
[図420]



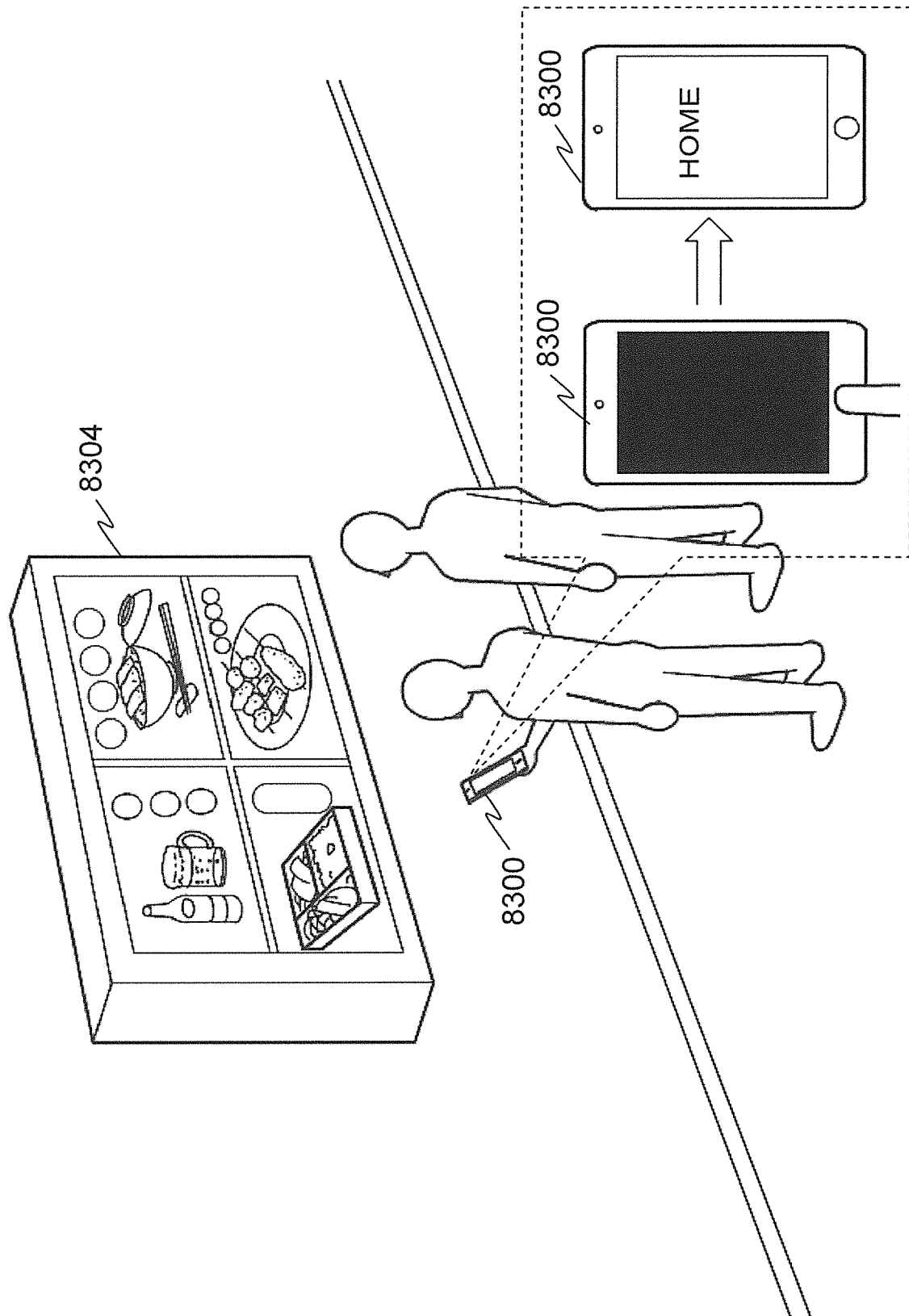
[図421]



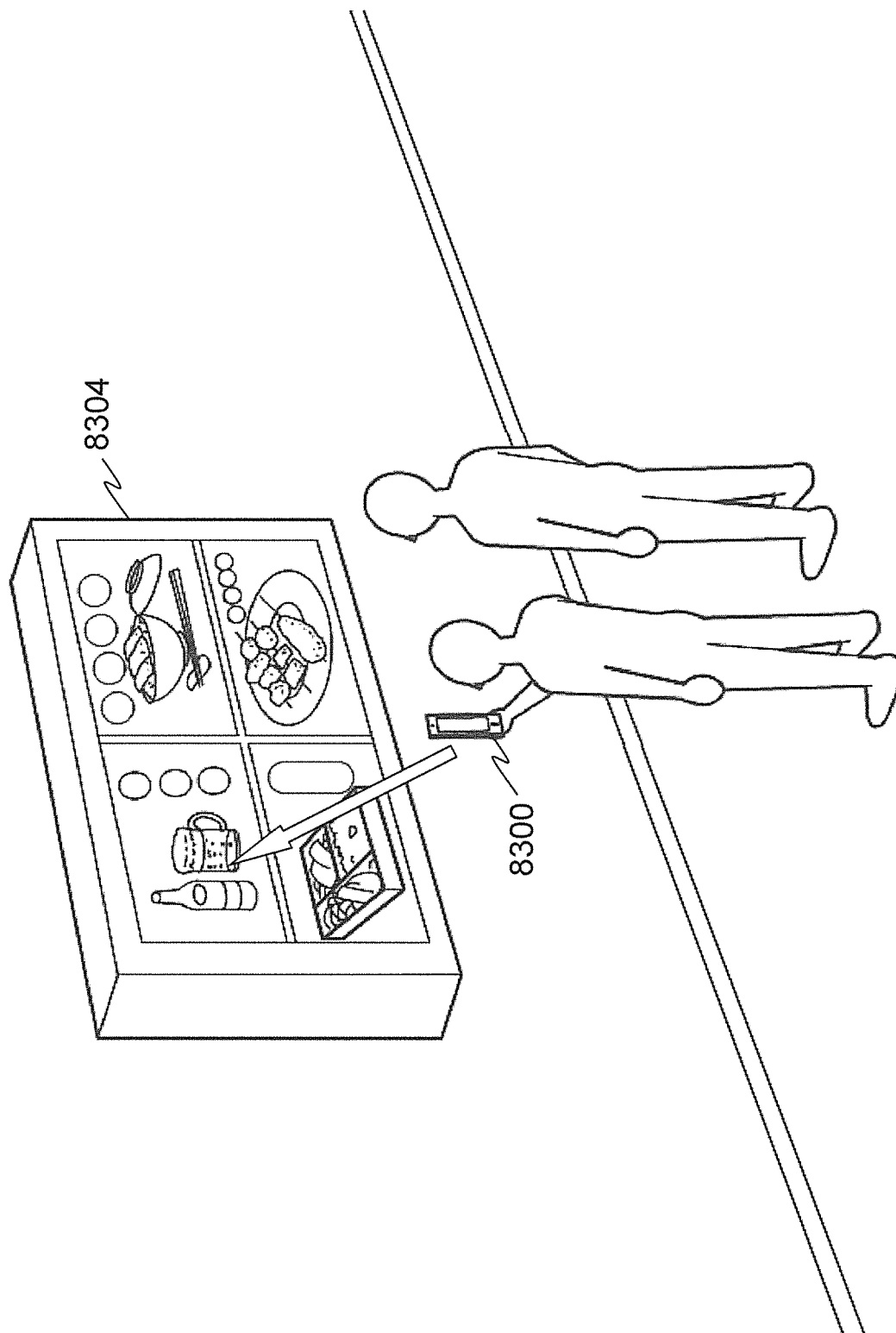
[図422]



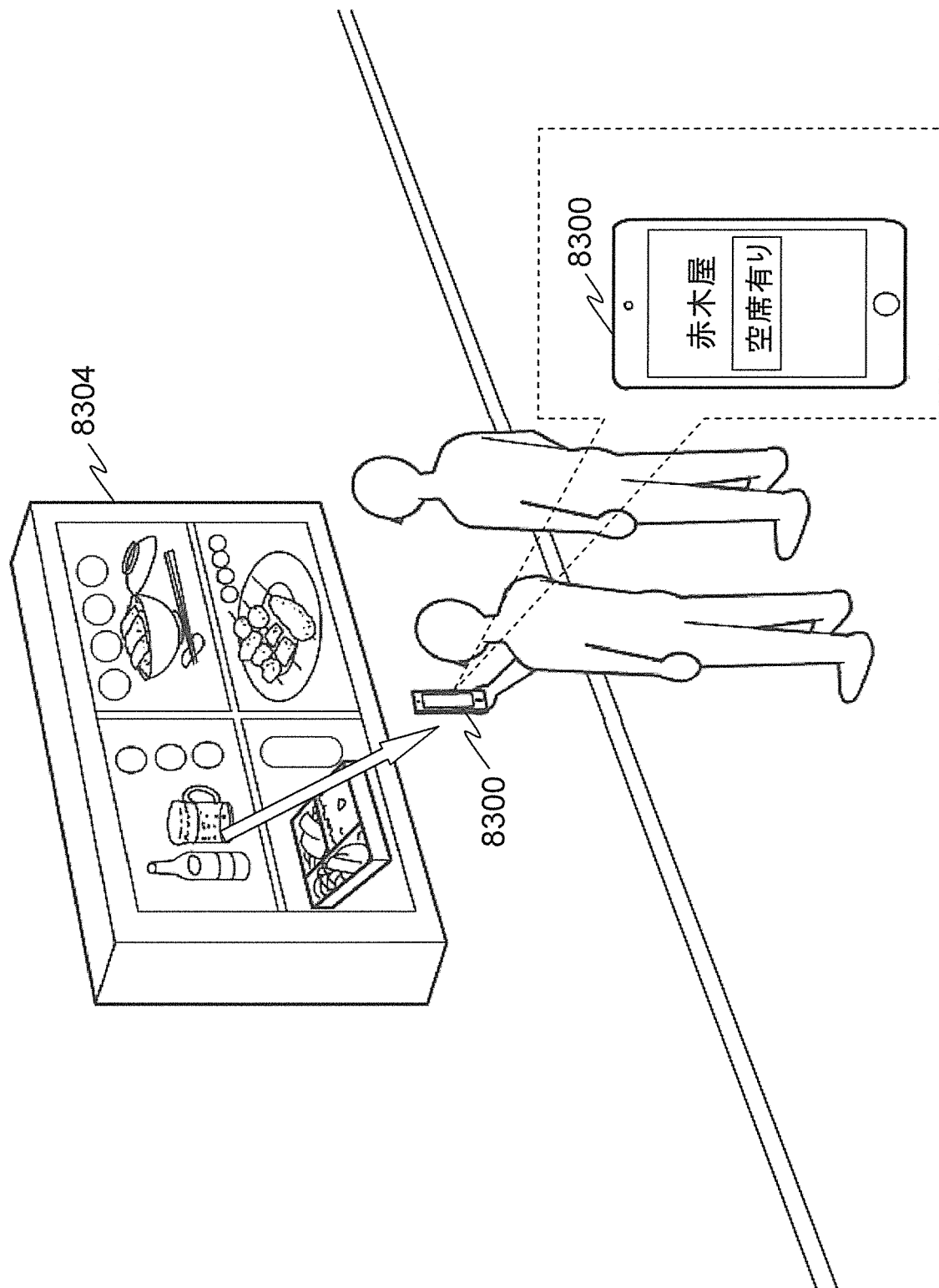
[図423]



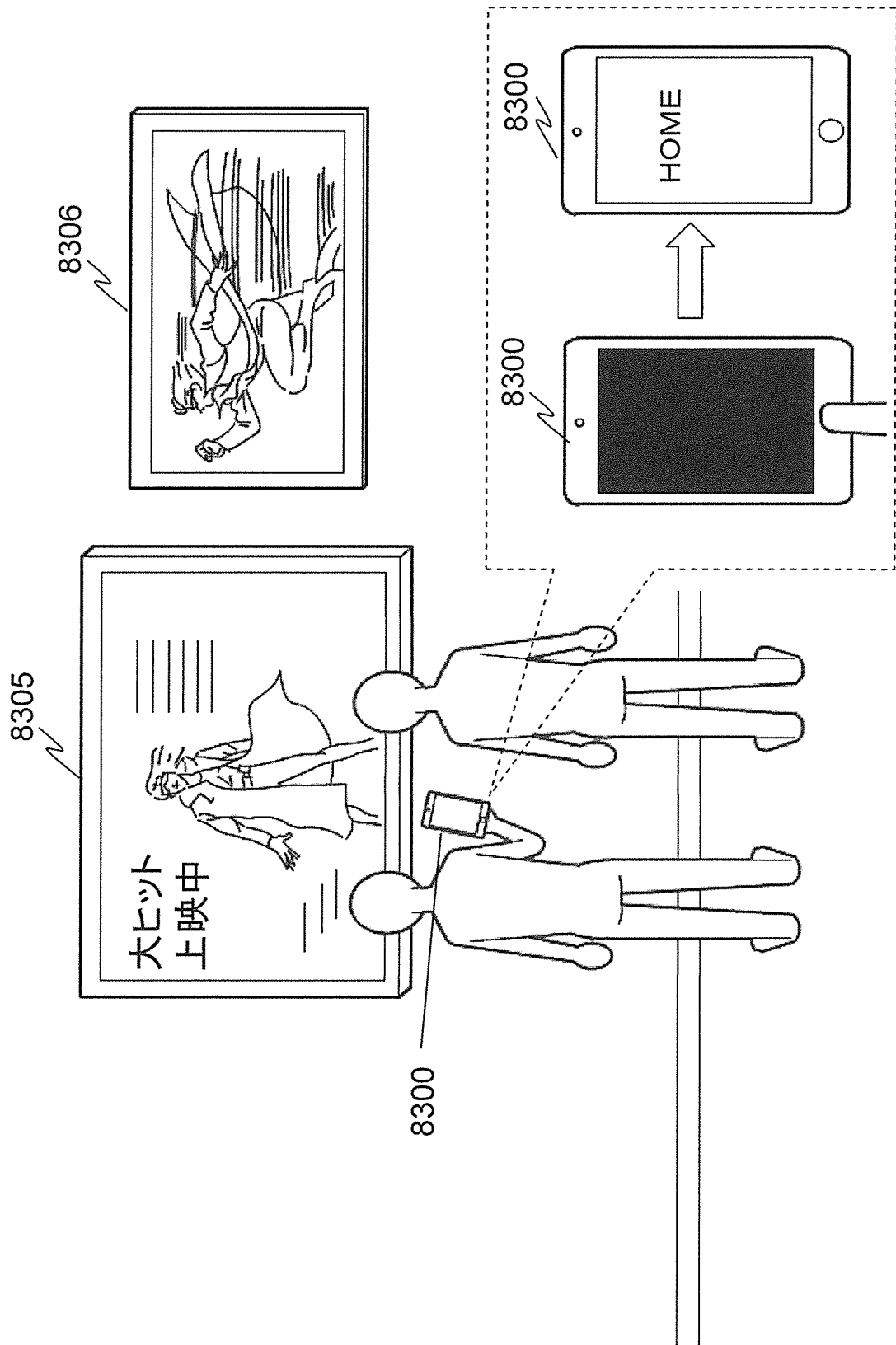
[図424]



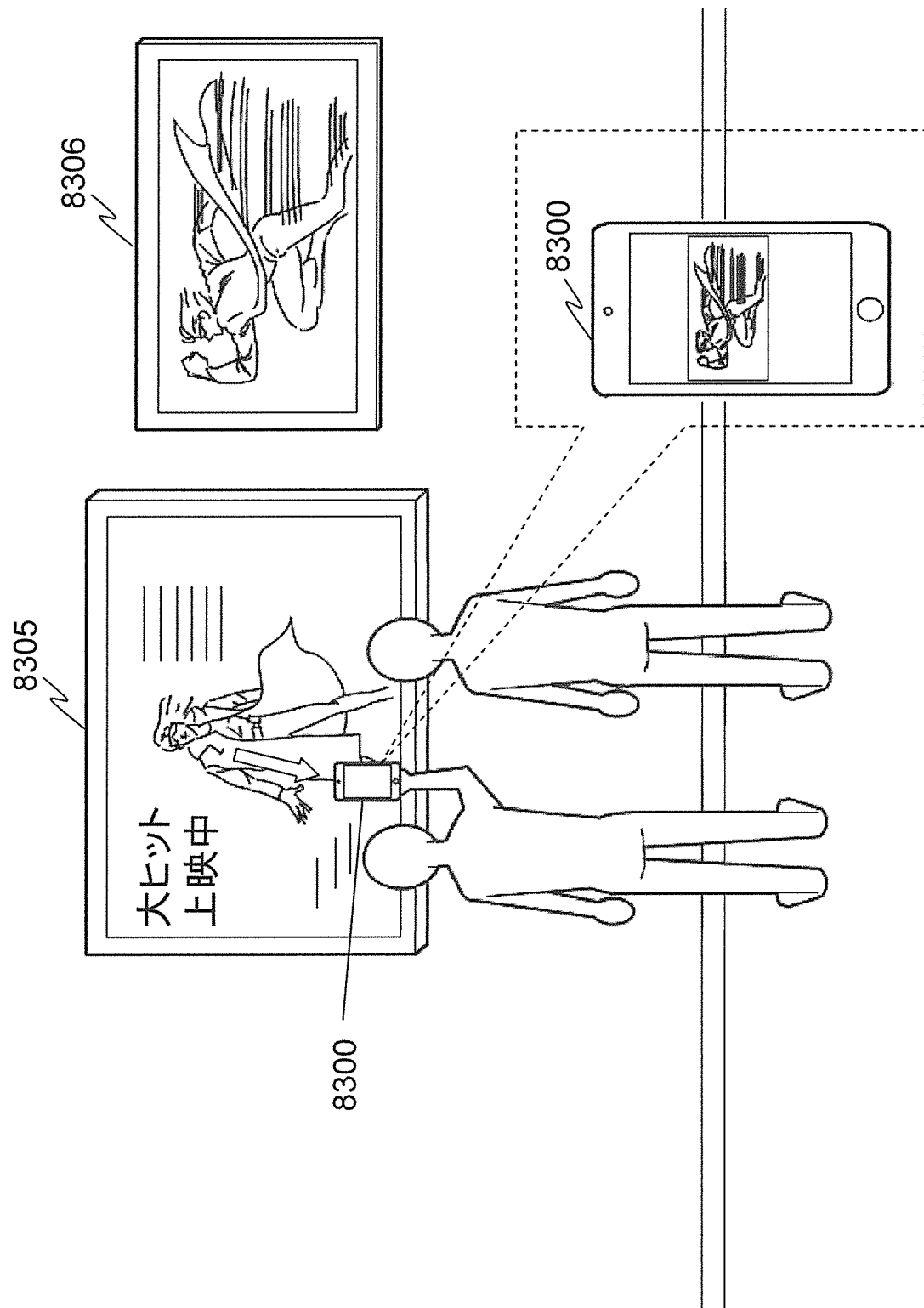
[図425]



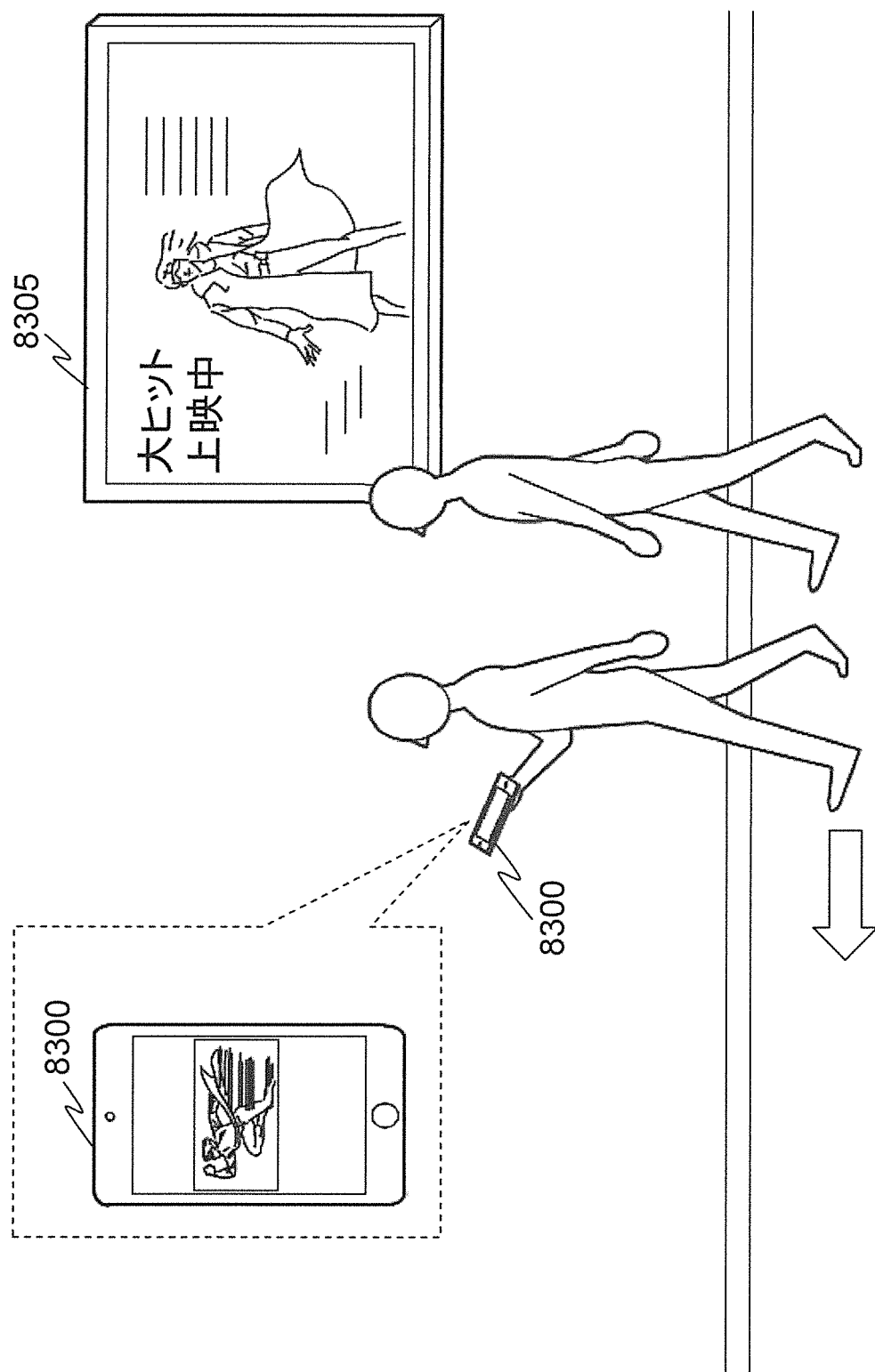
[図426]



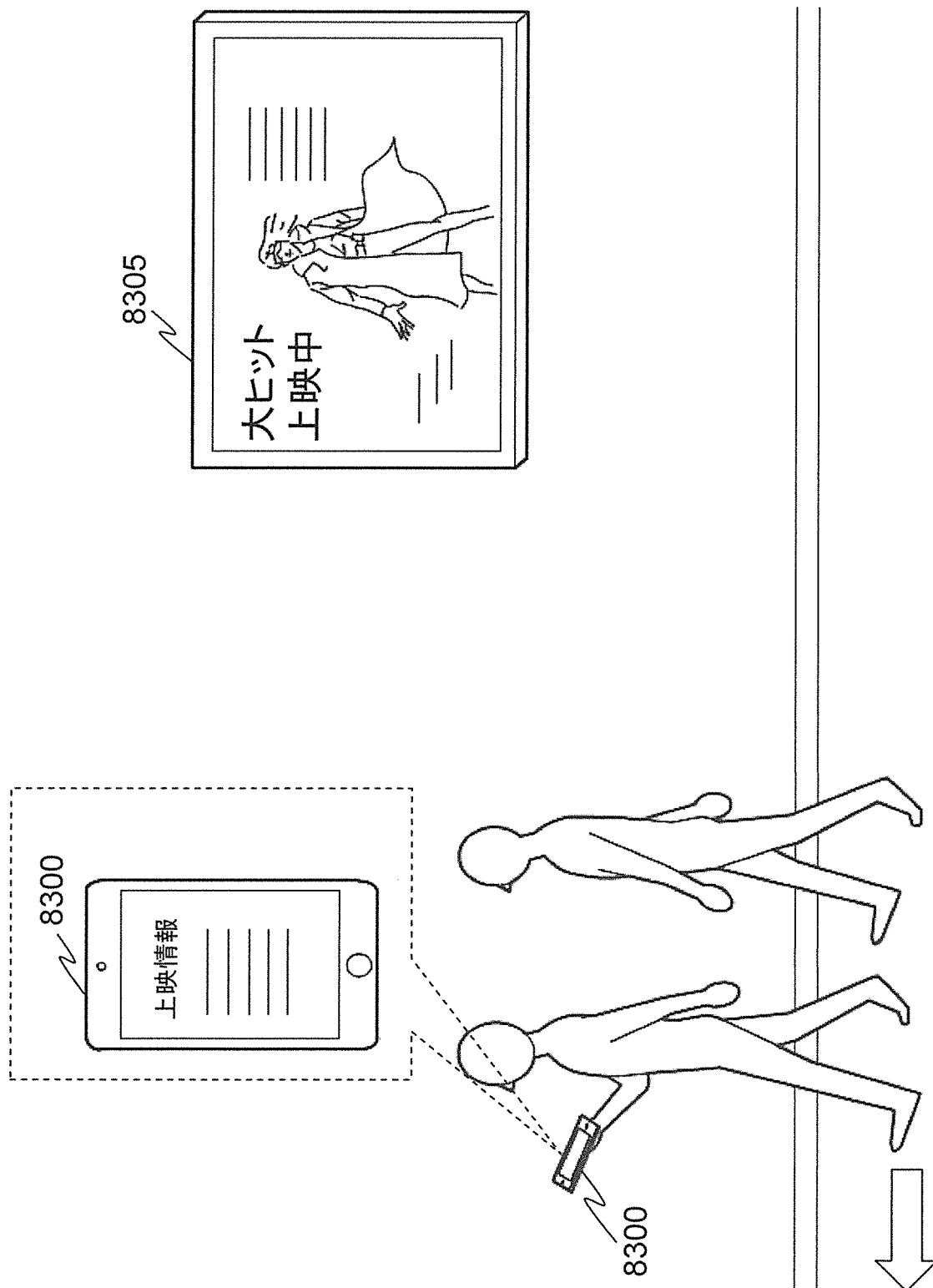
[図427]



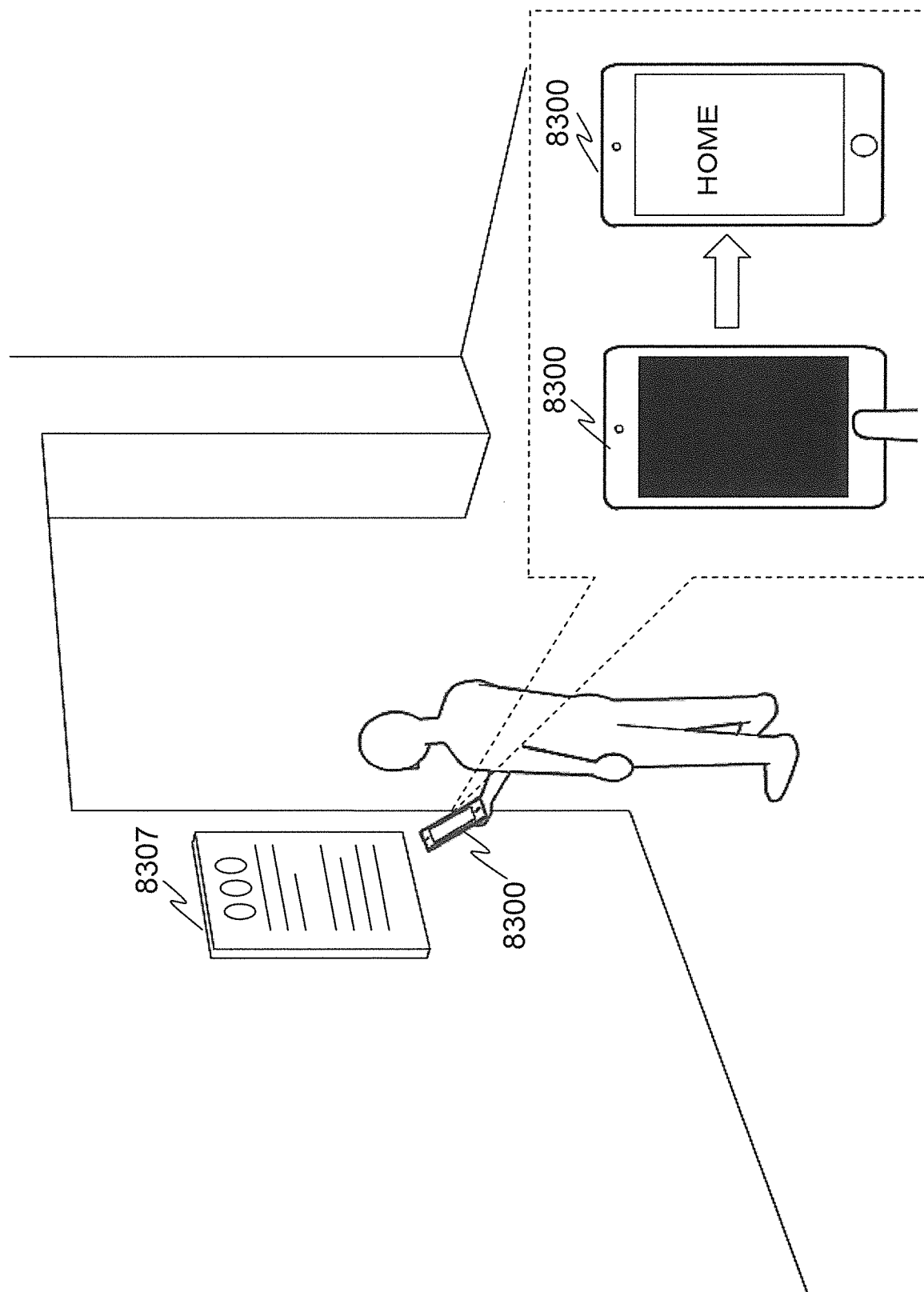
[図428]



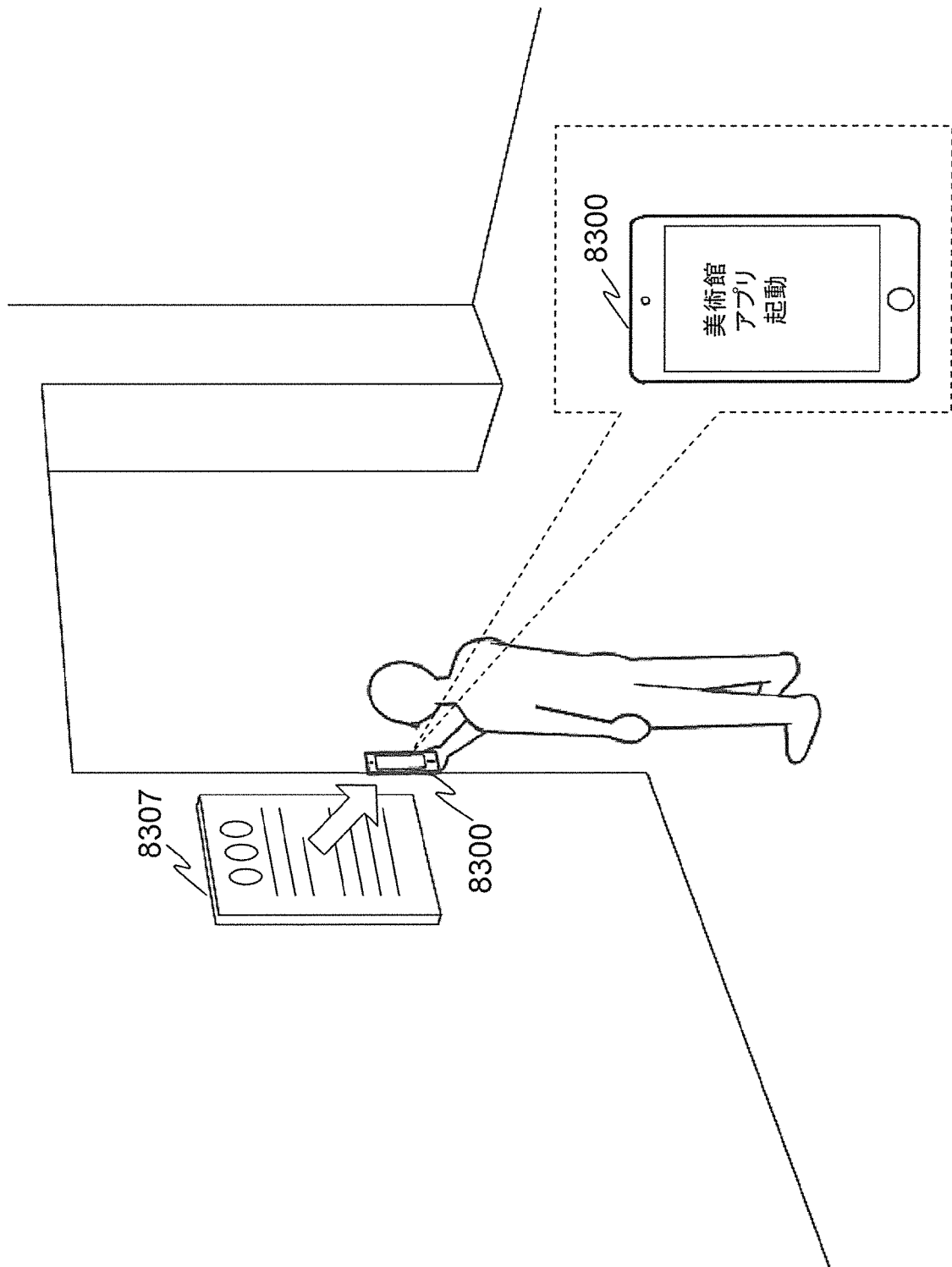
[図429]



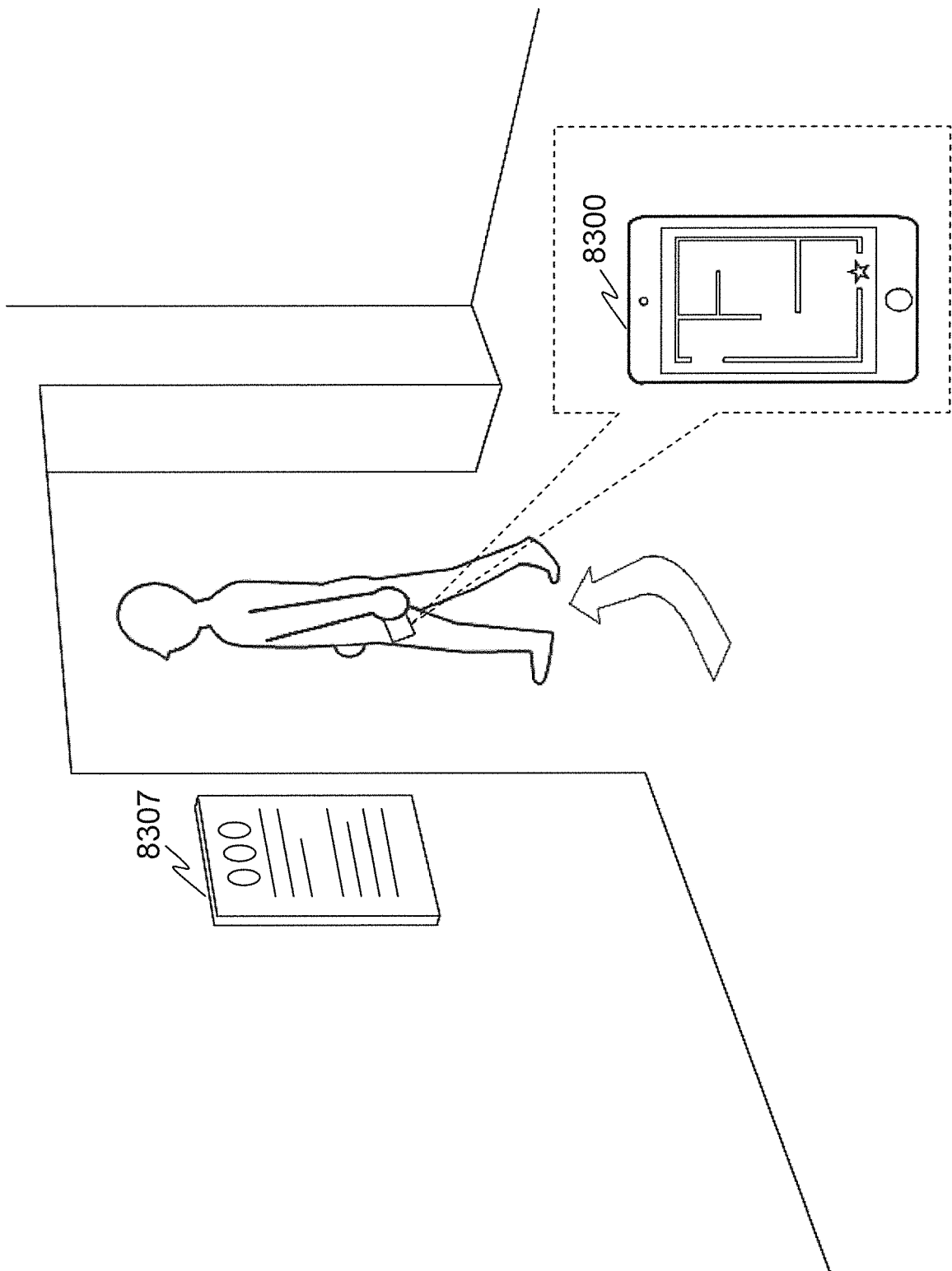
[図430]



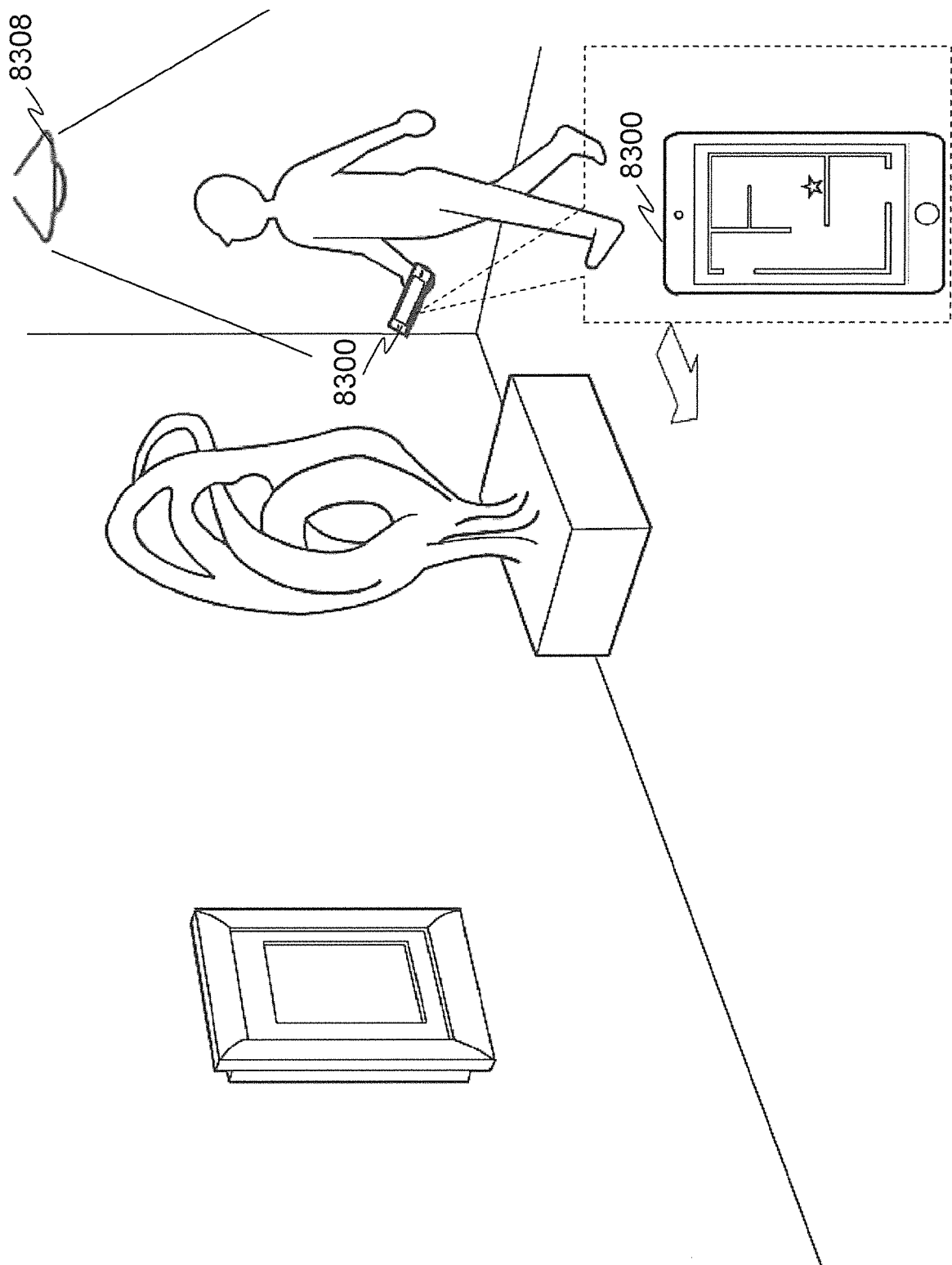
[図431]



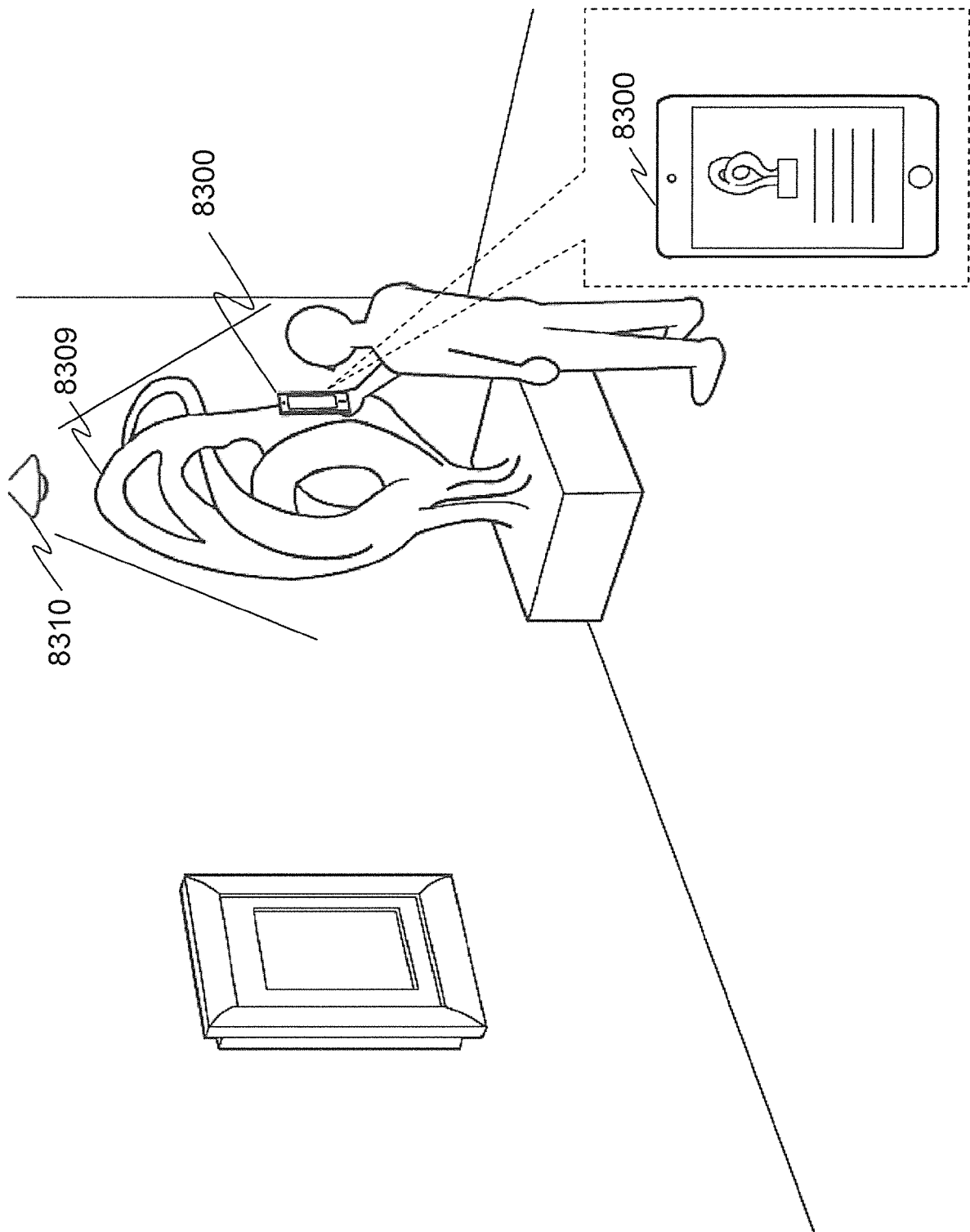
[図432]



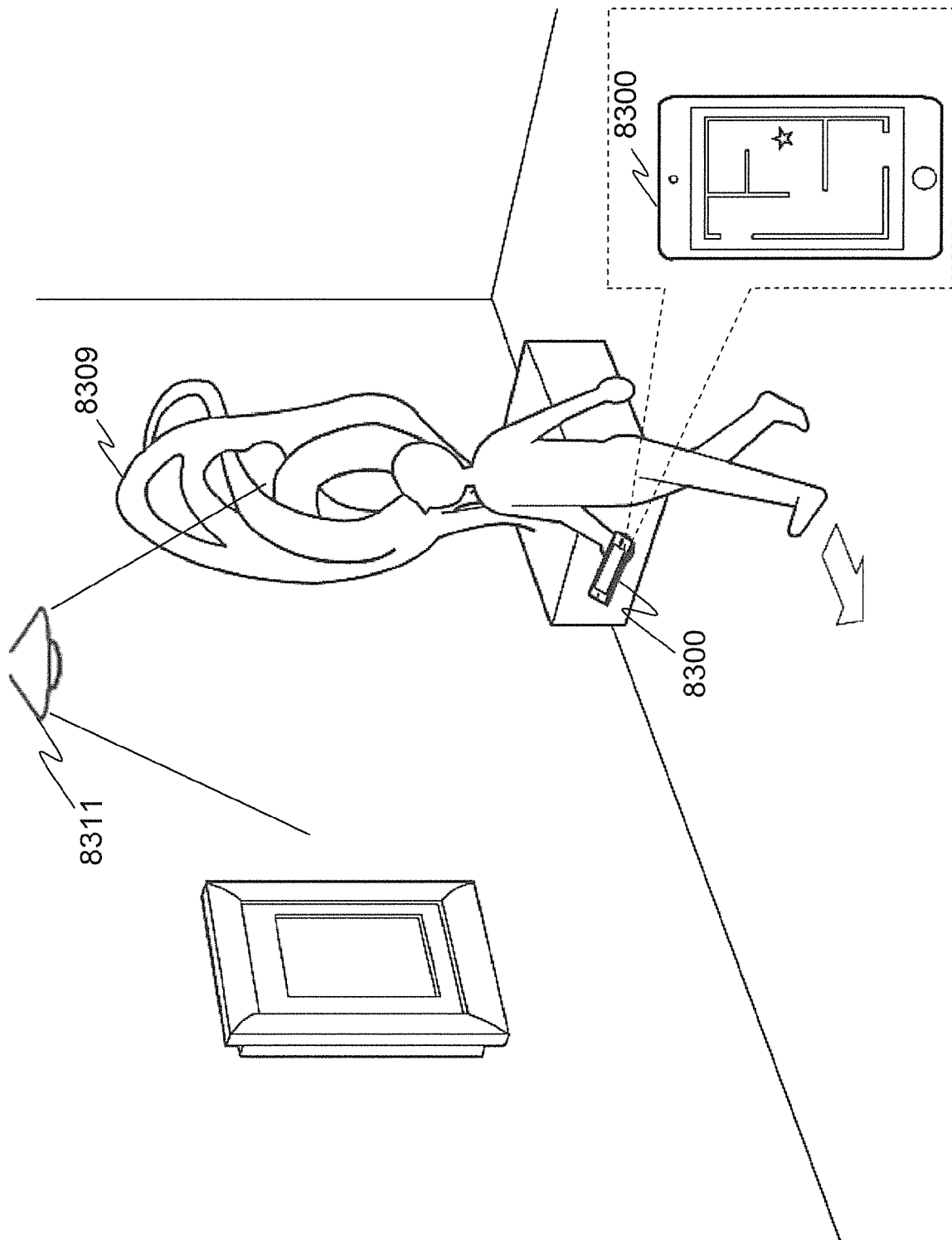
[図433]



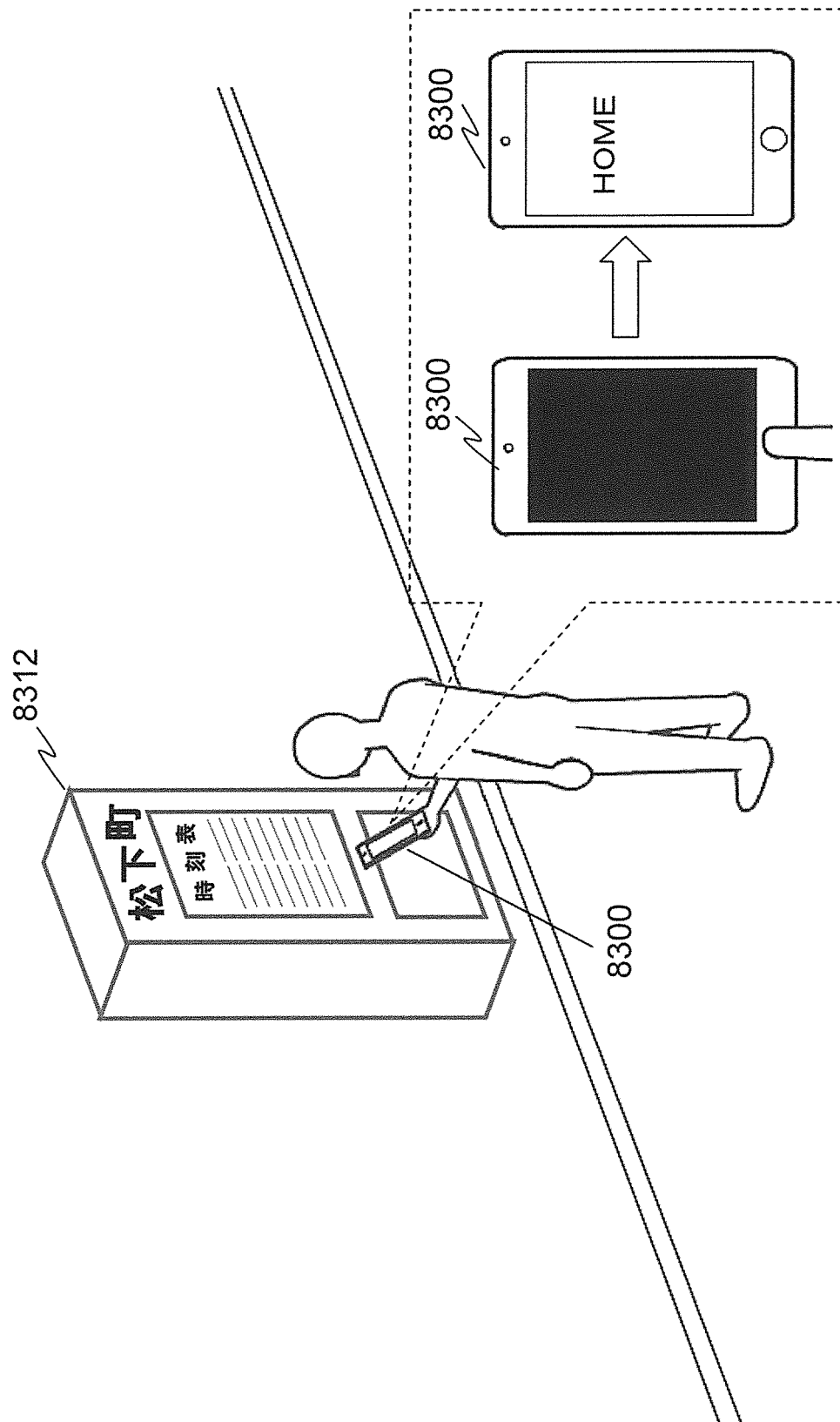
[図434]



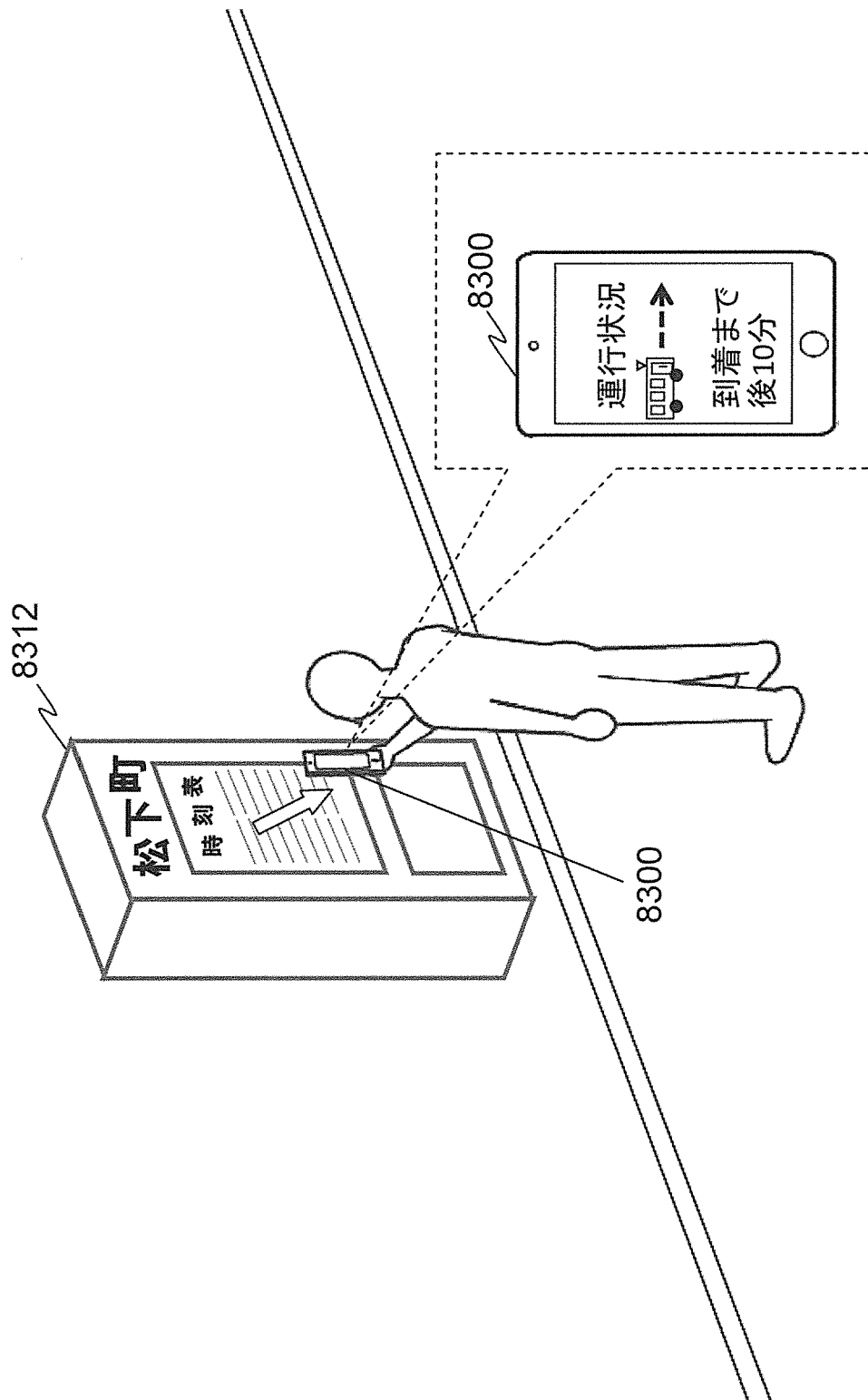
[図435]



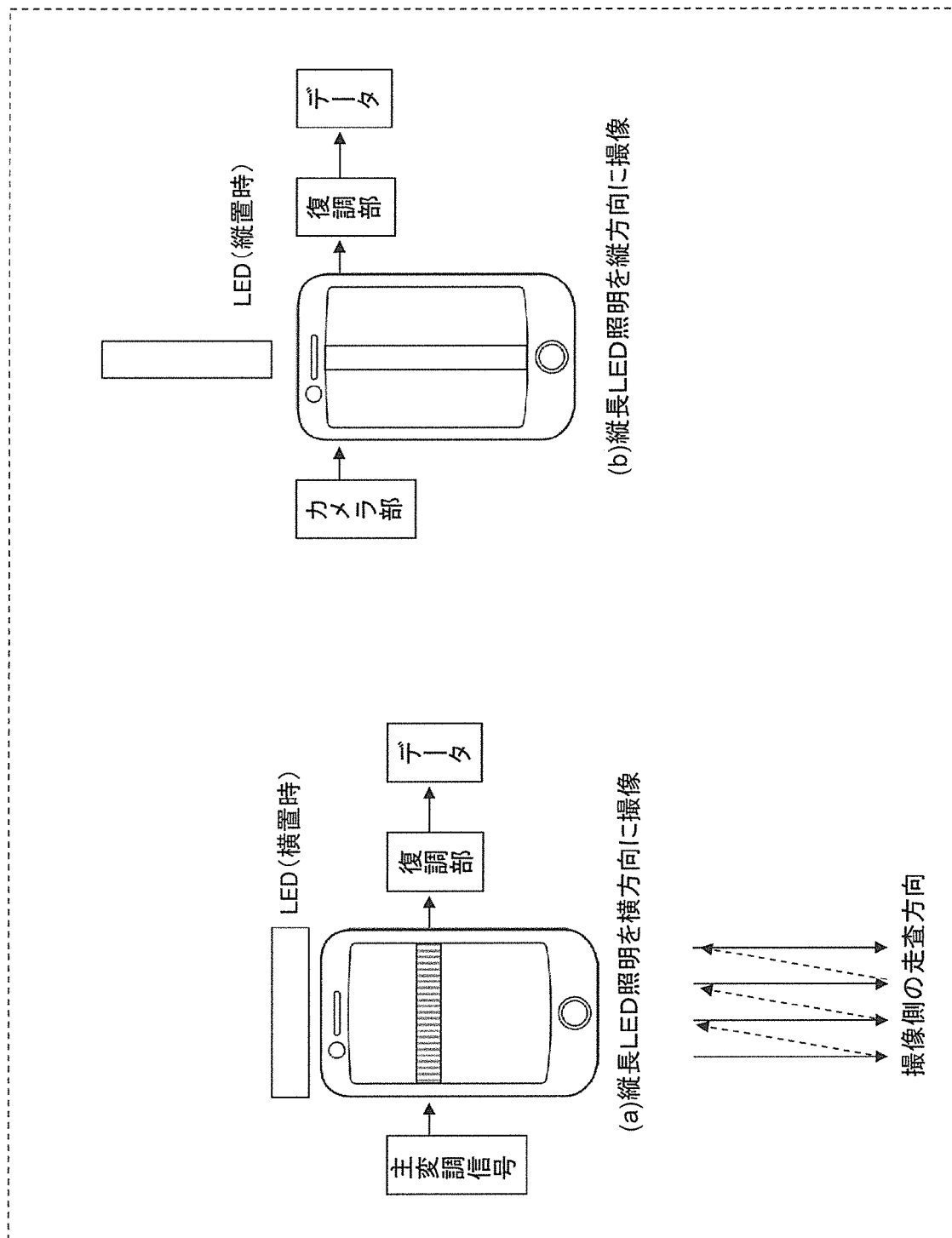
[図436]



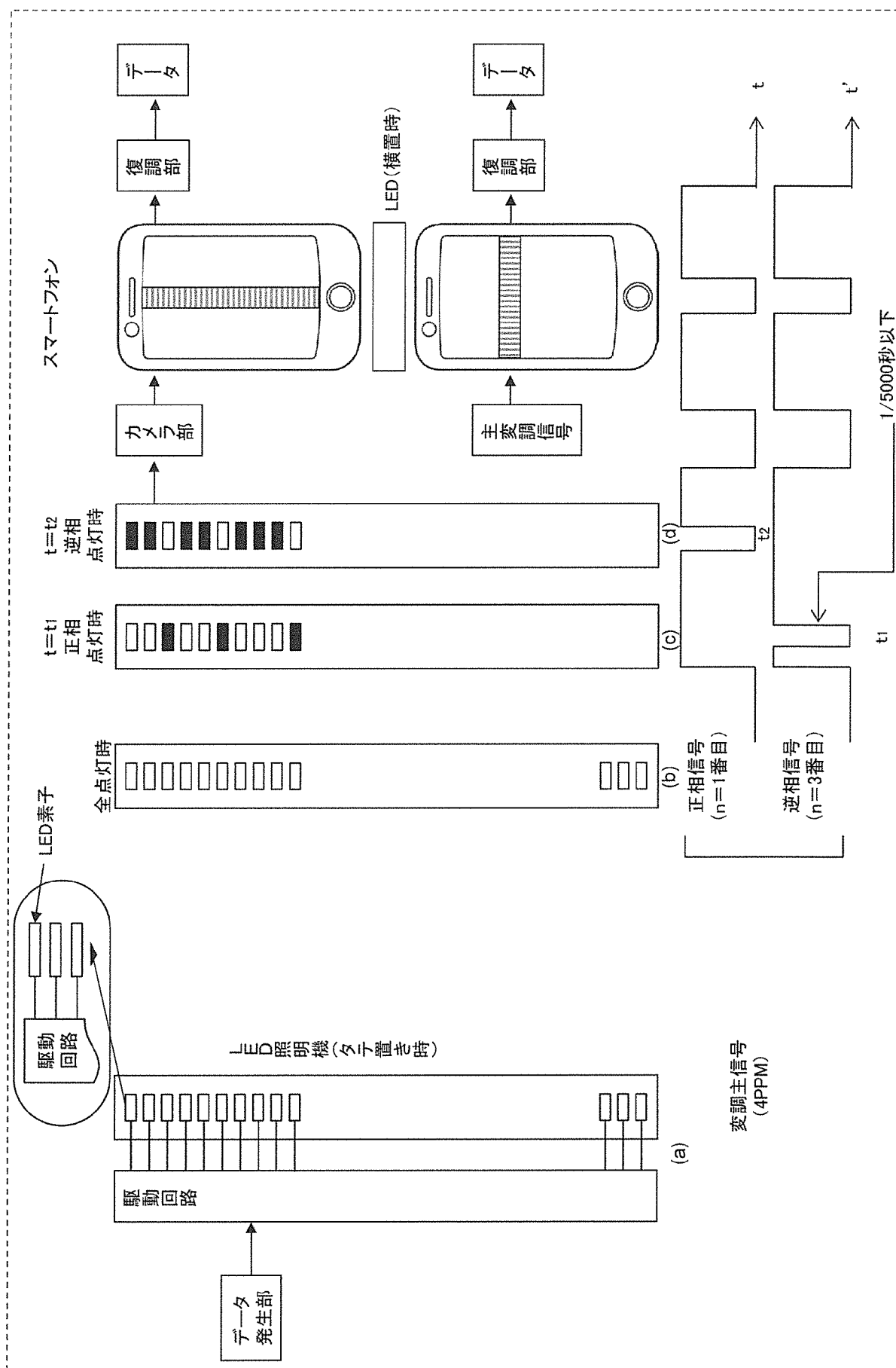
[図437]



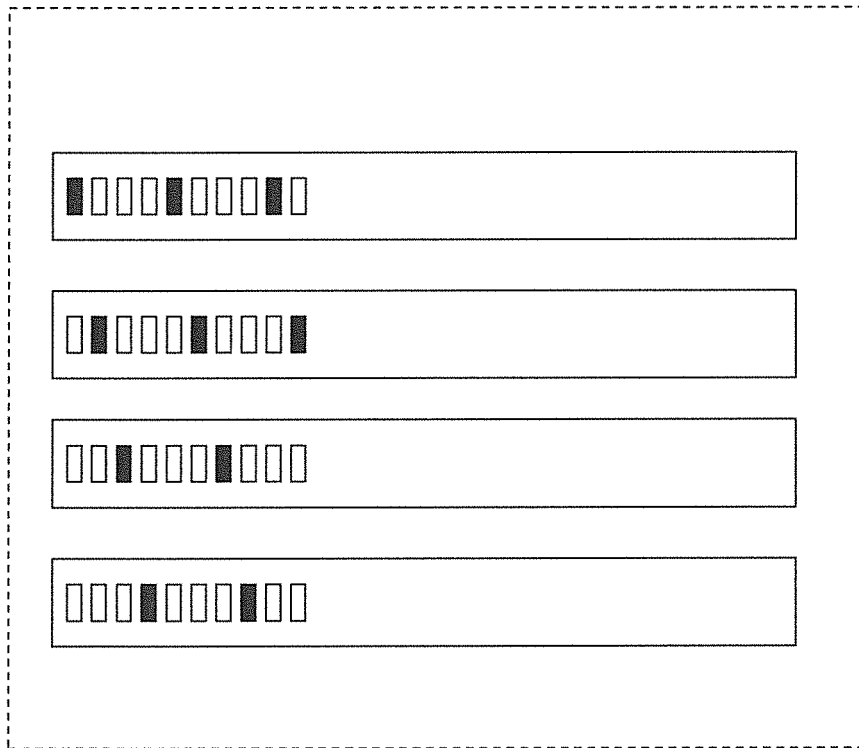
[図438]



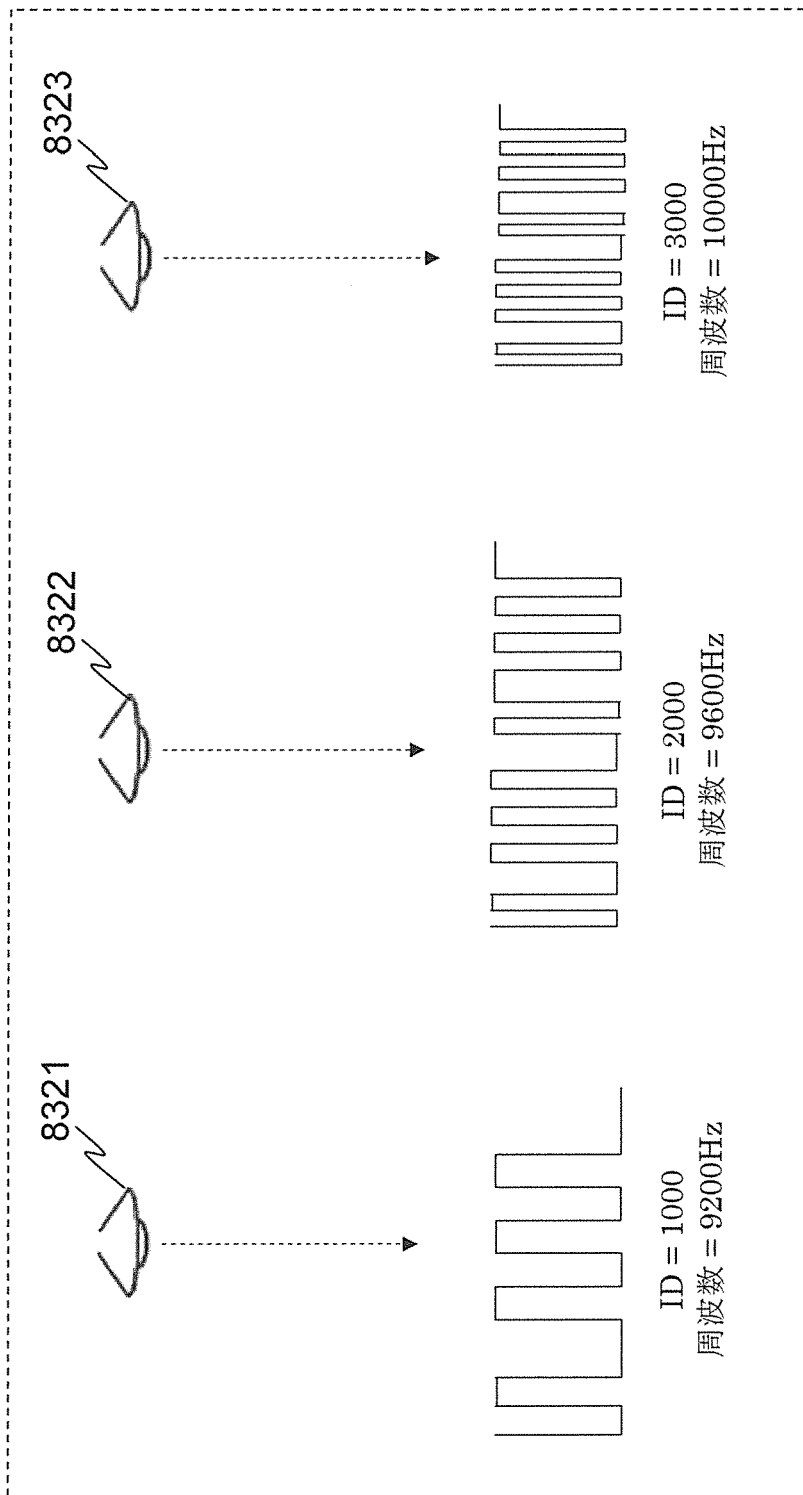
[図439]



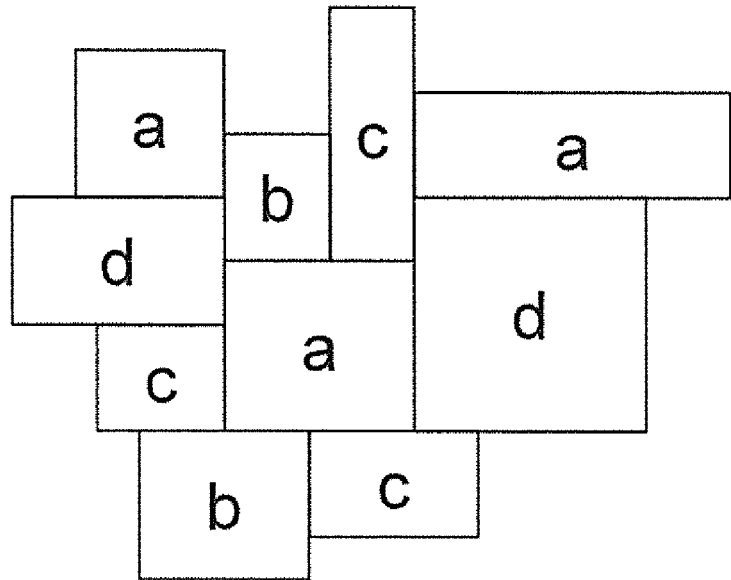
[図440]



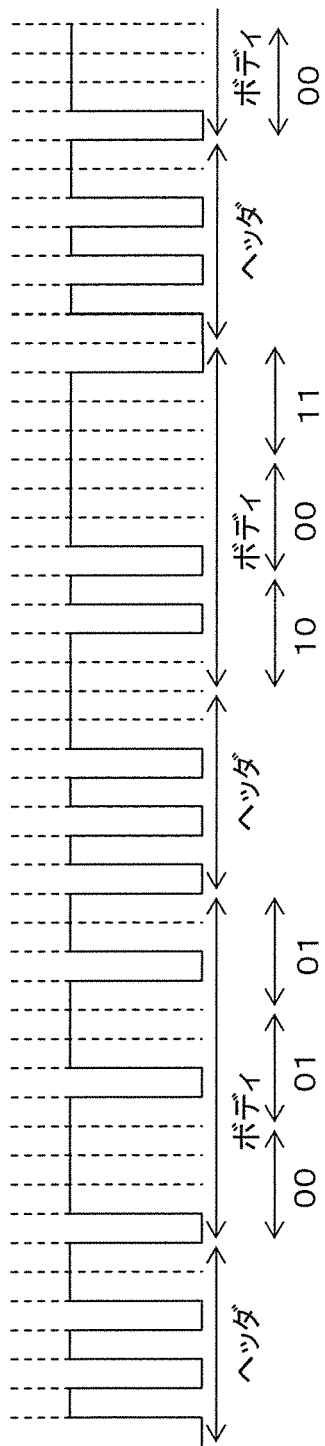
[図441]



[図442]



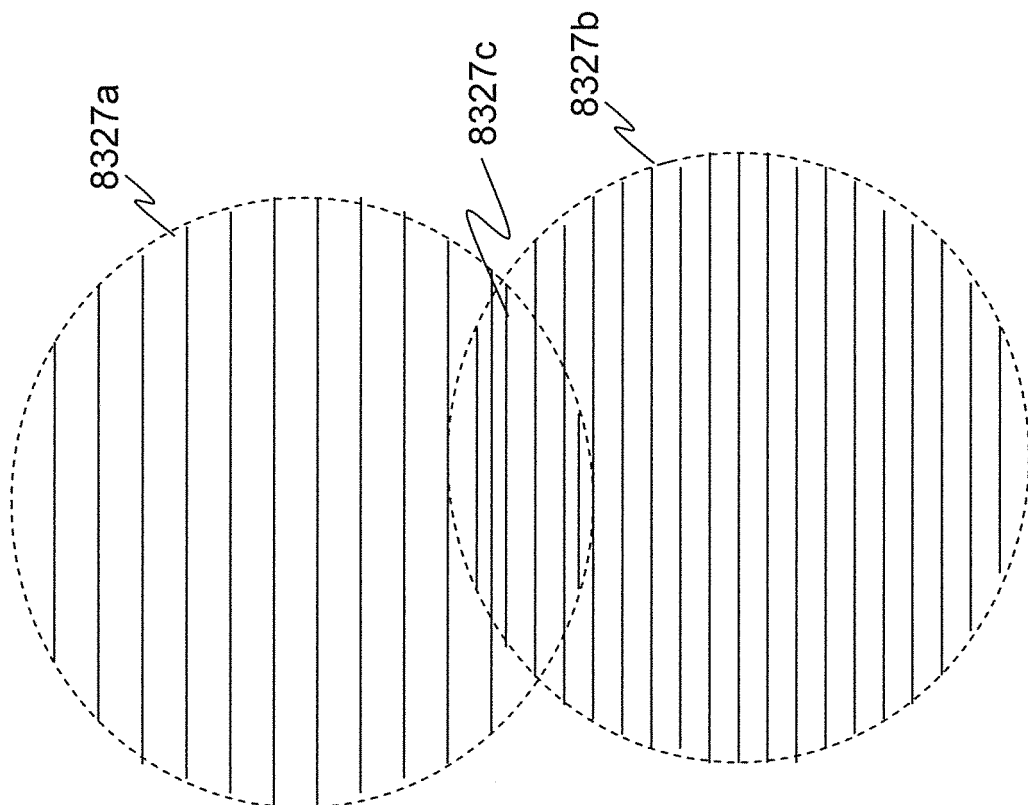
[図443]



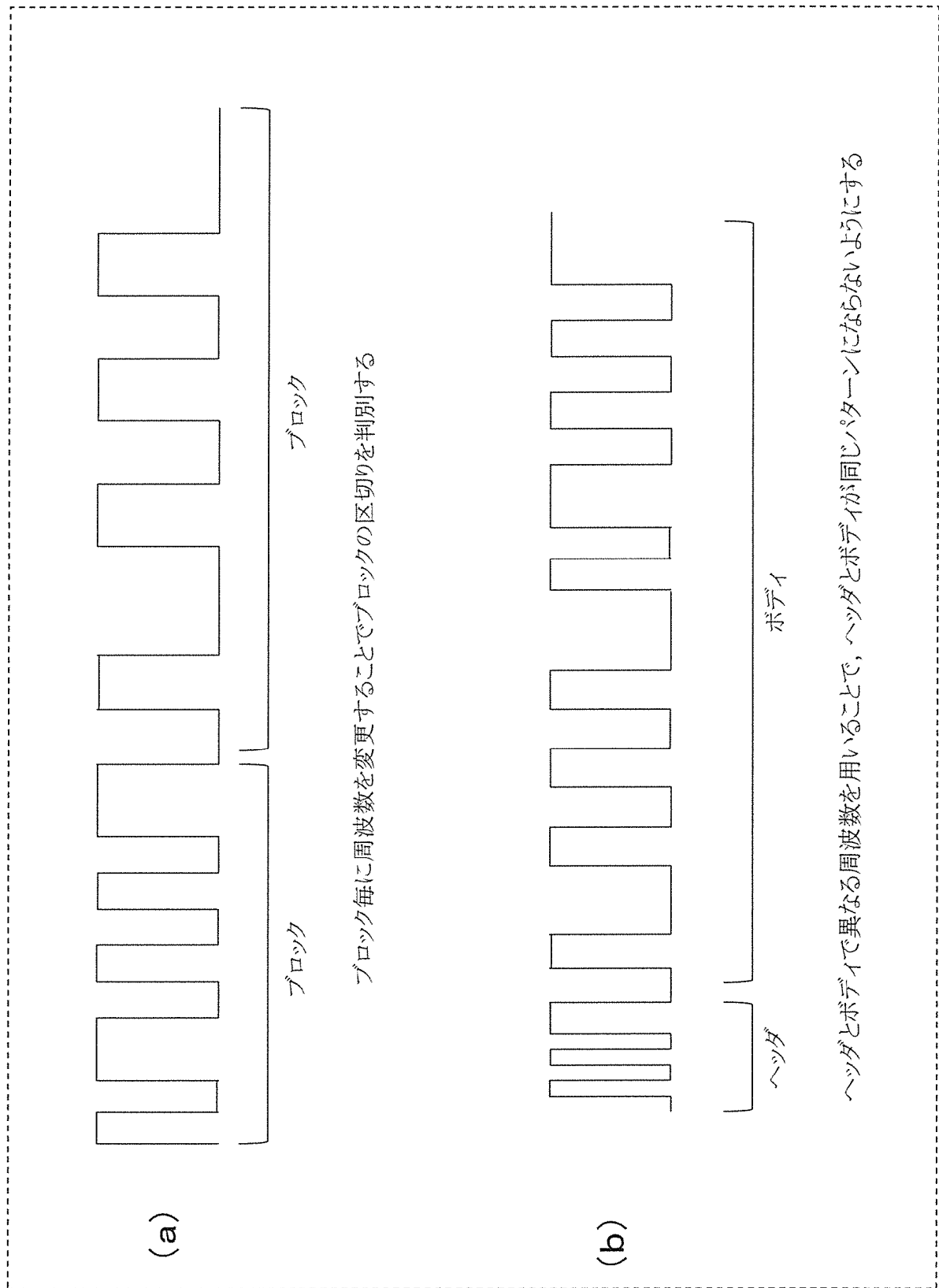
[図444]

ID	100	110
周波数	2 kHz	1 kHz
信号	100 <u>2</u>	110 <u>1</u>

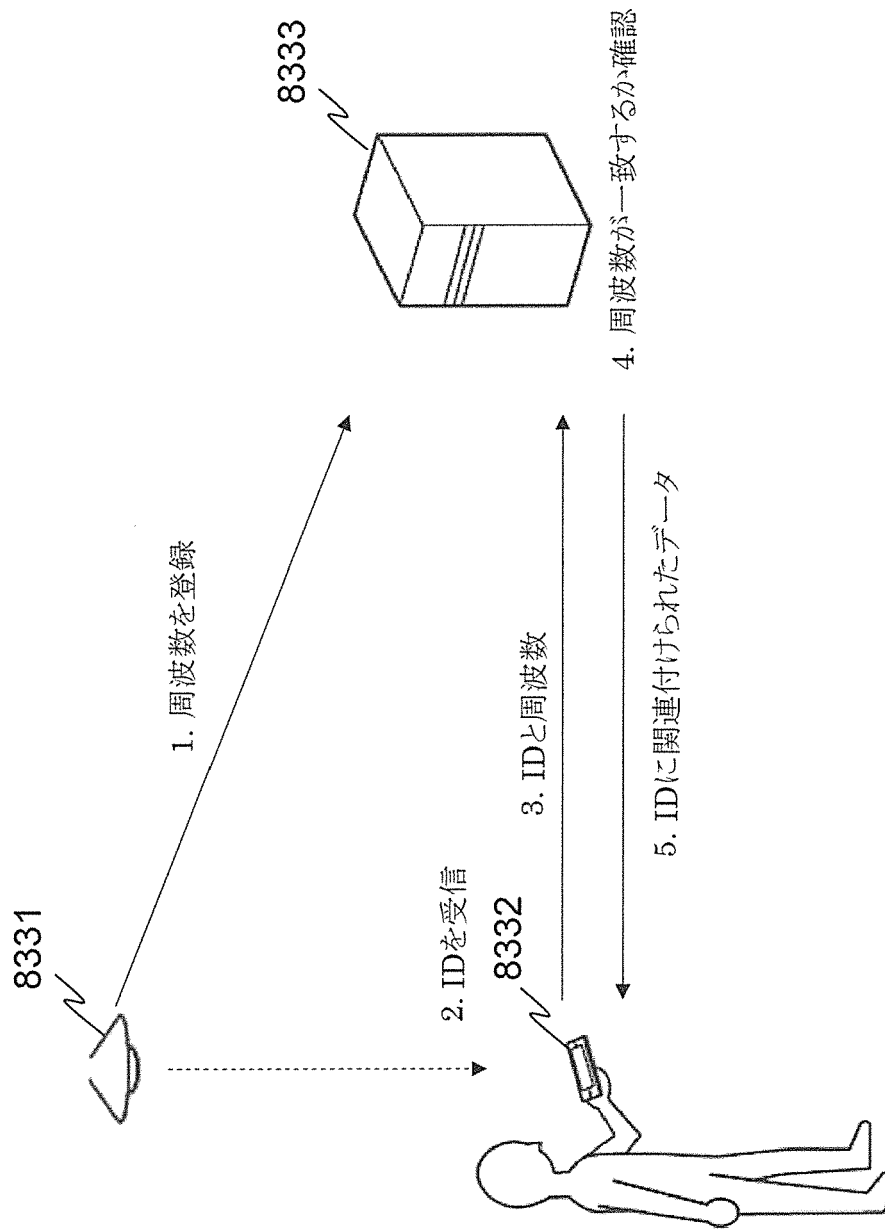
[図445]



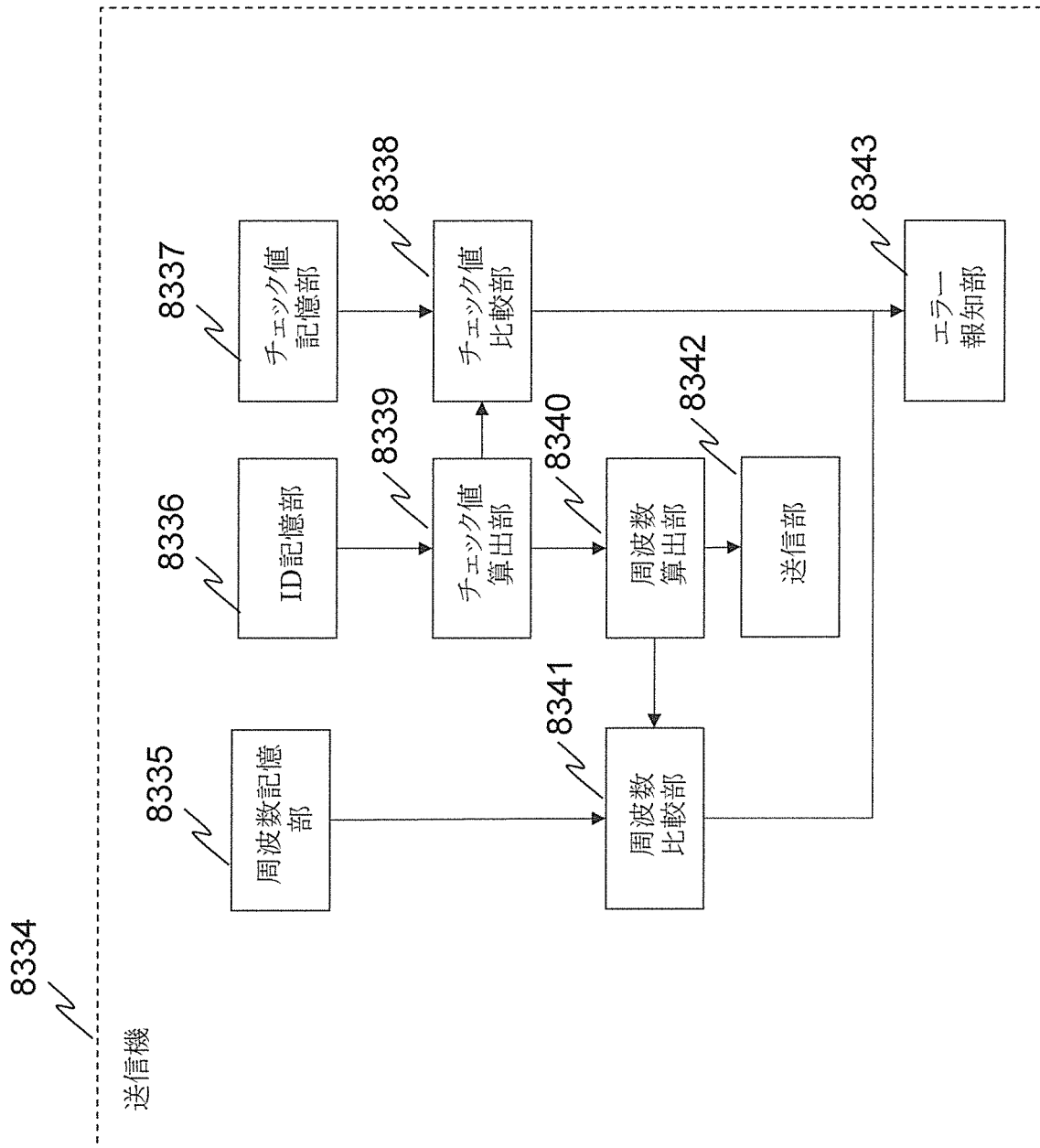
[図446]



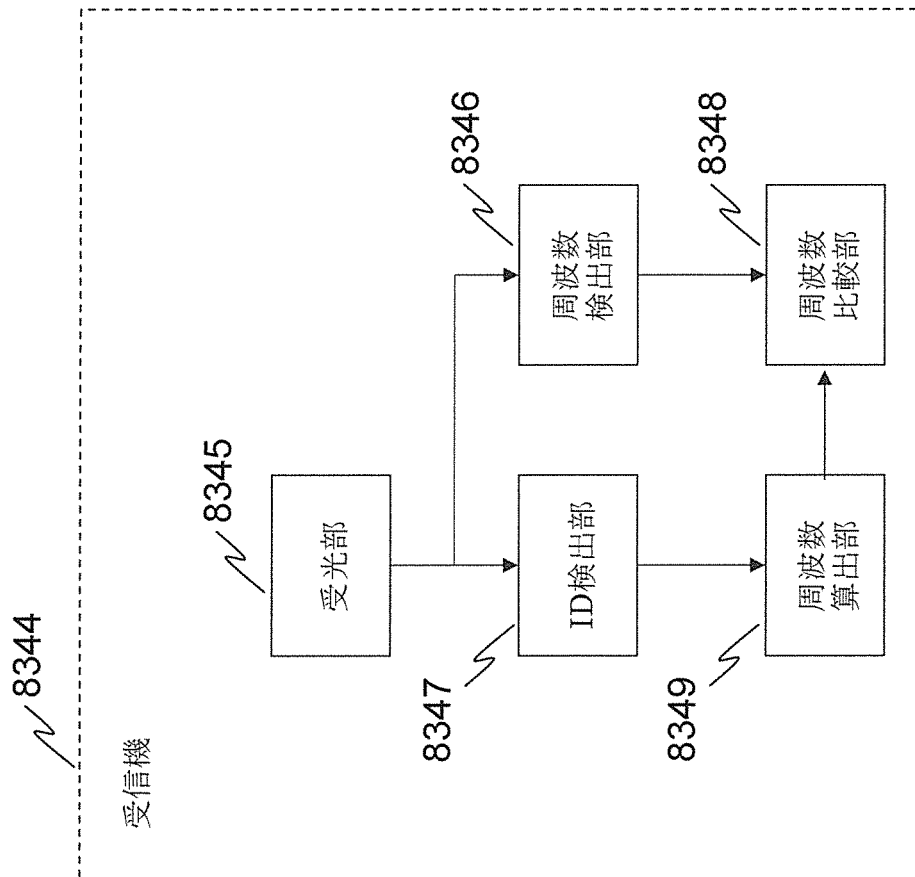
[図447]



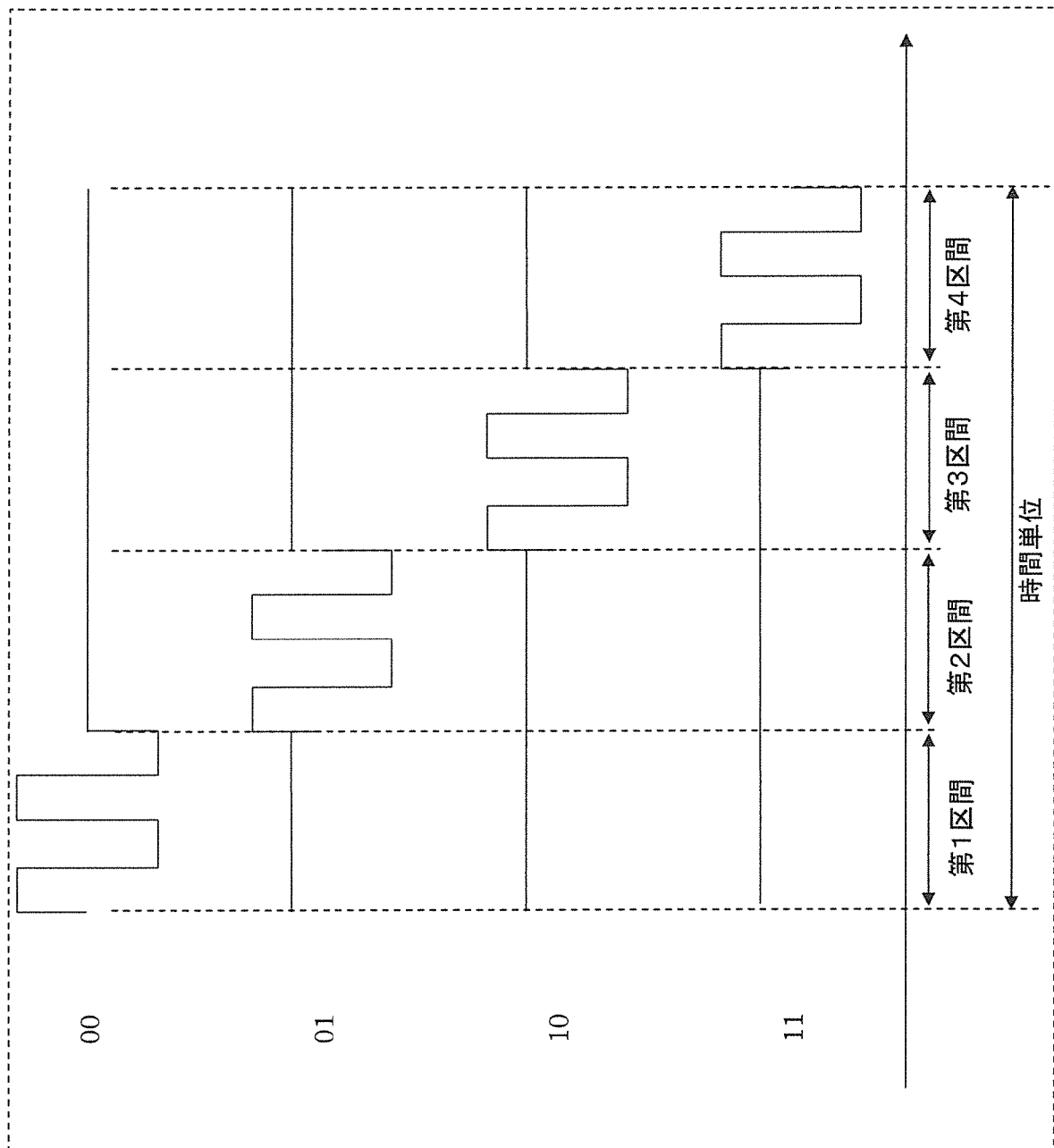
[図448]



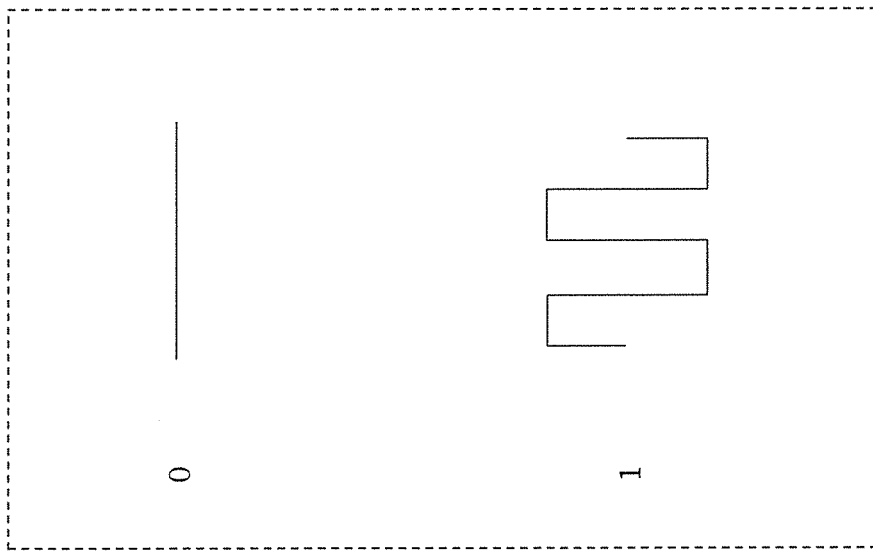
[図449]



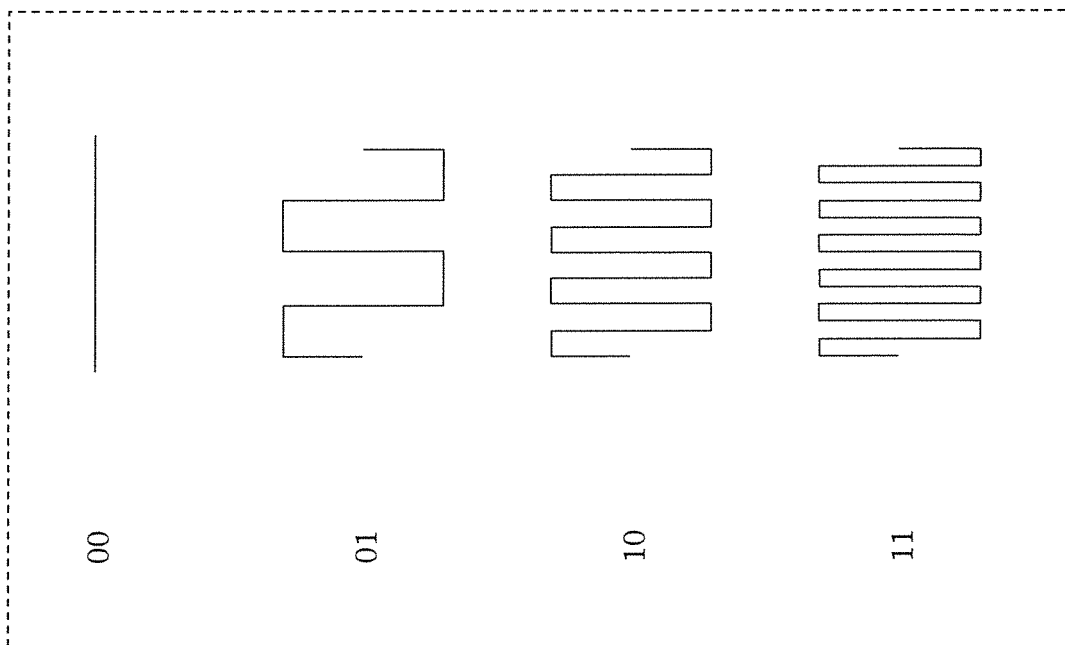
[図450]



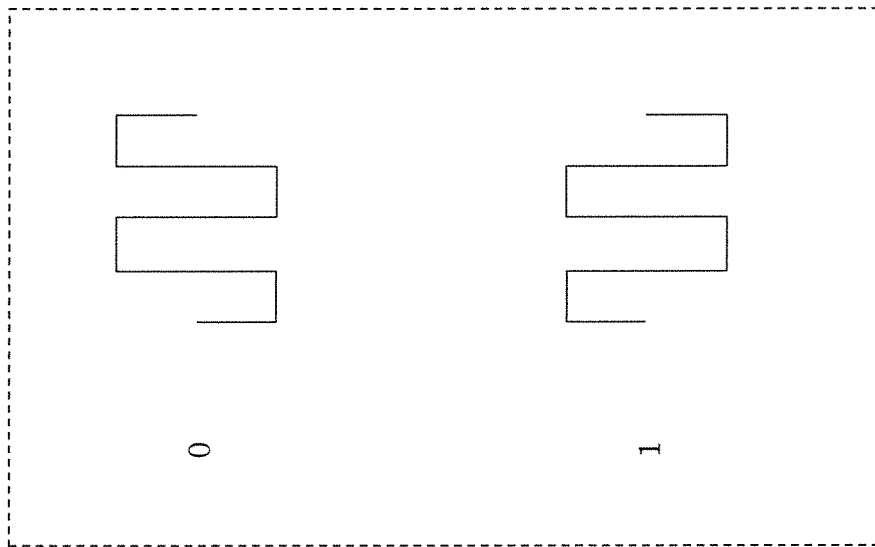
[図451]



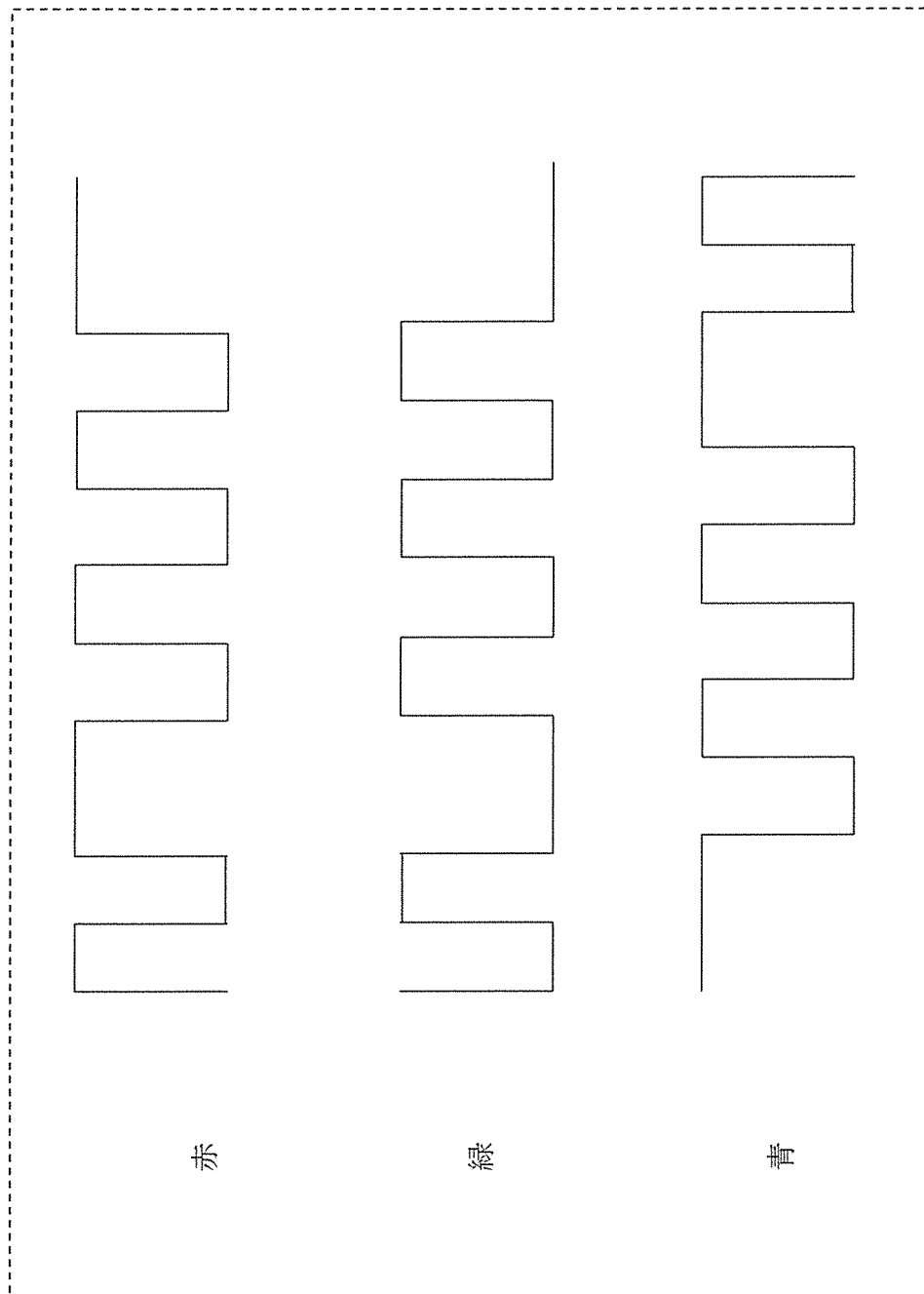
[図452]



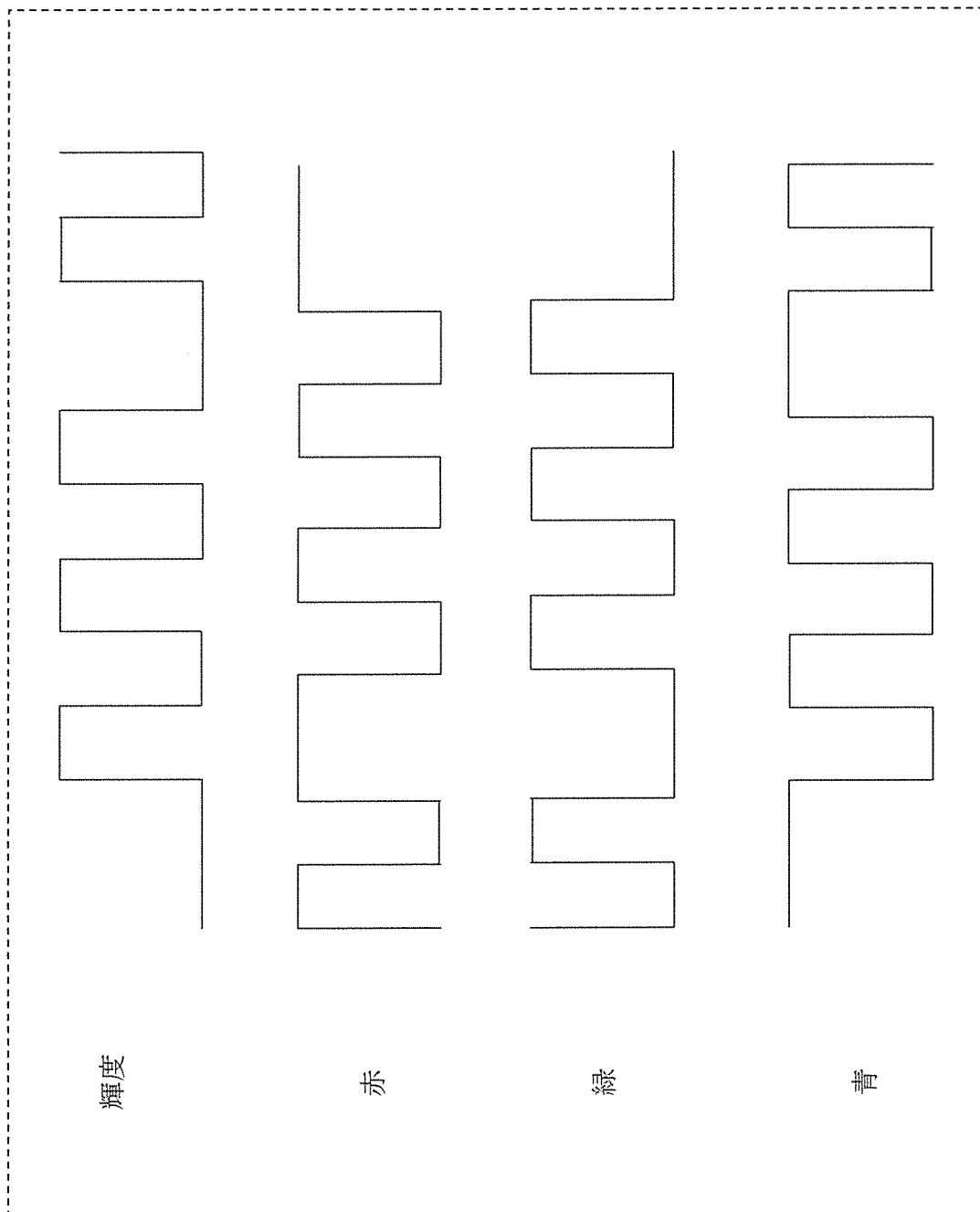
[図453]



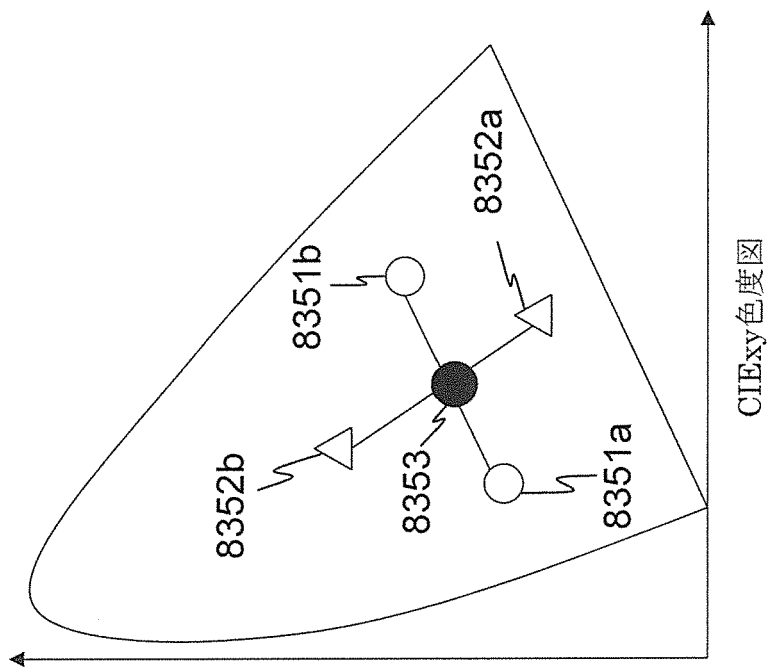
[図454]



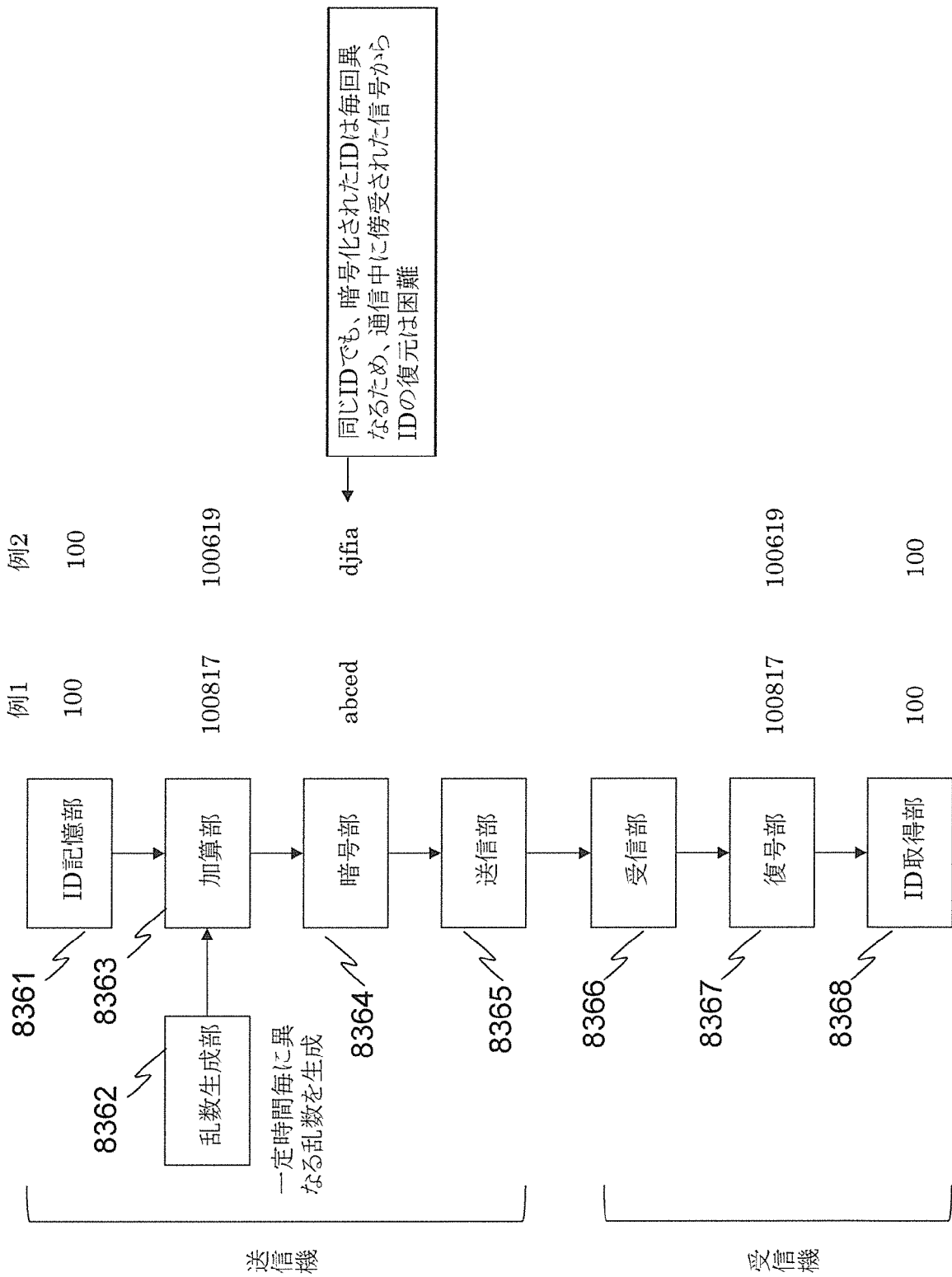
[図455]



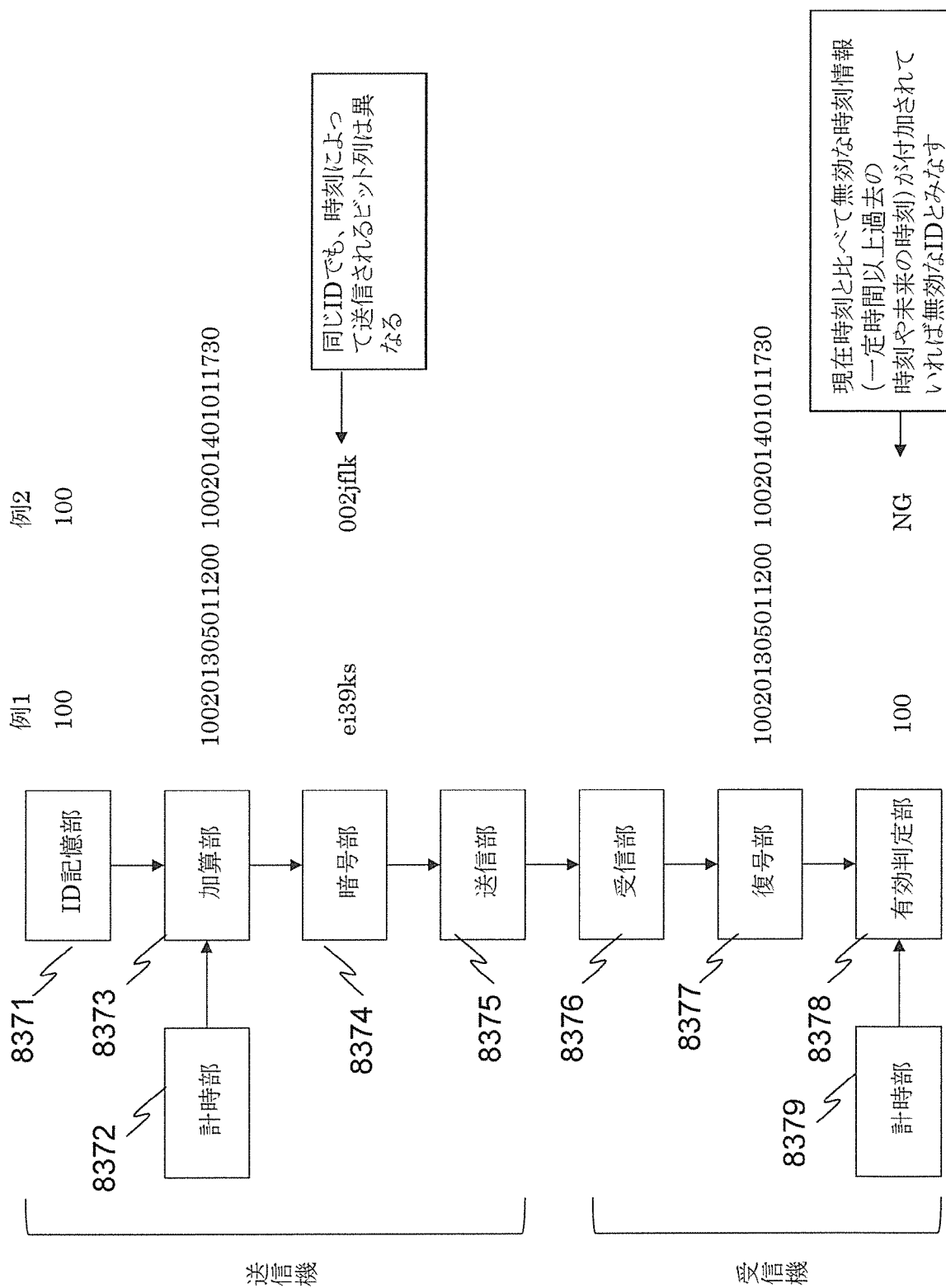
[図456]



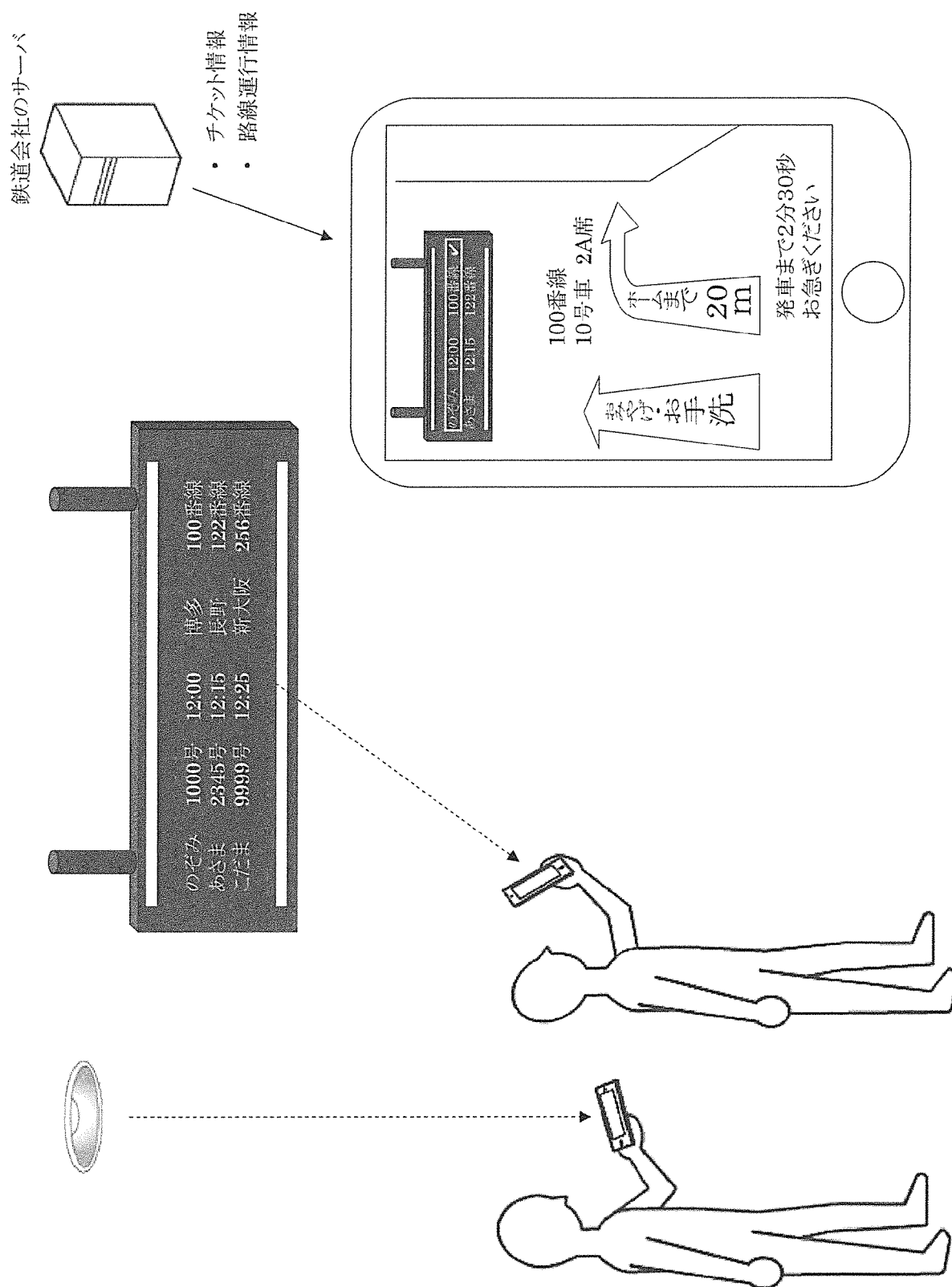
[図457]



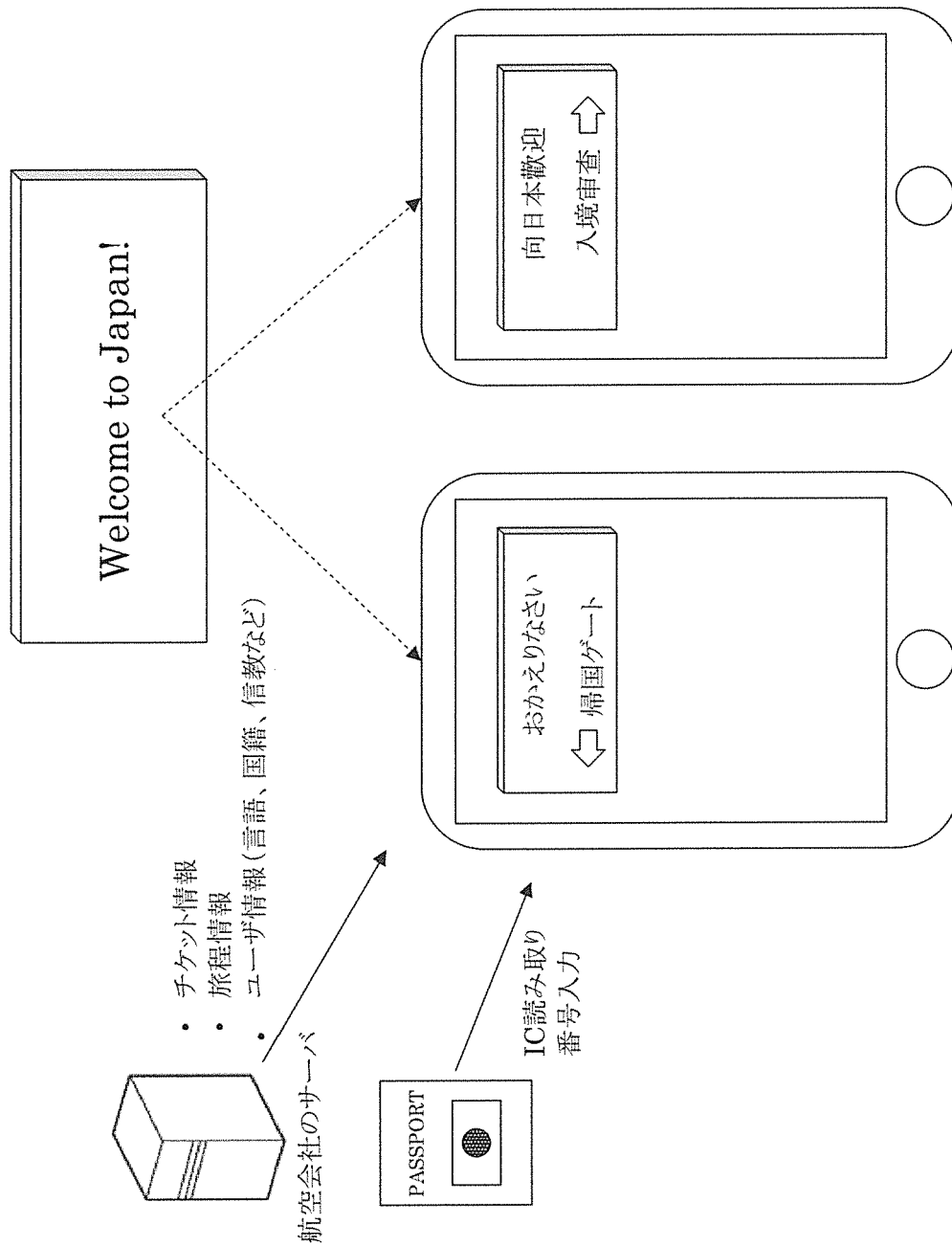
[図458]



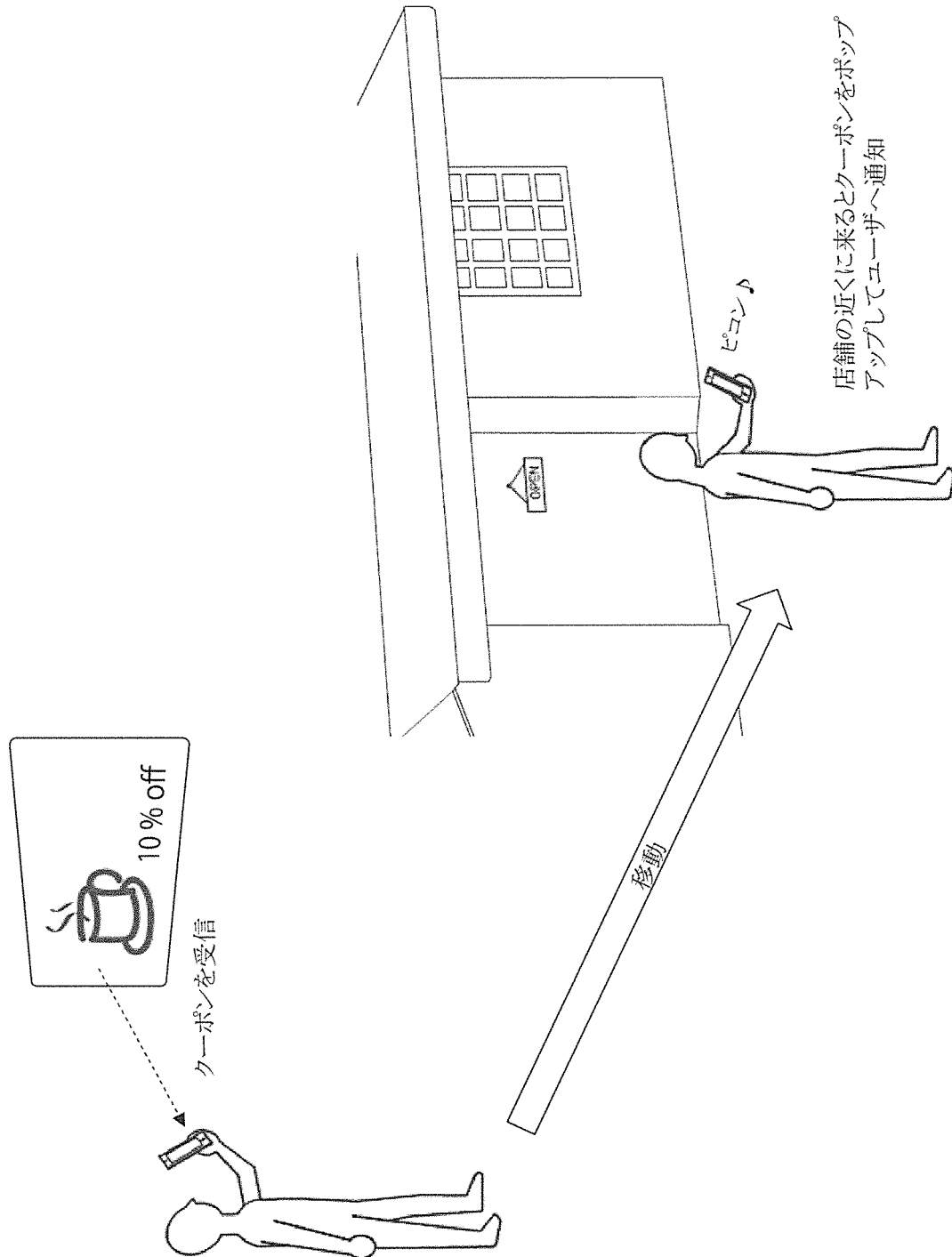
[図459]



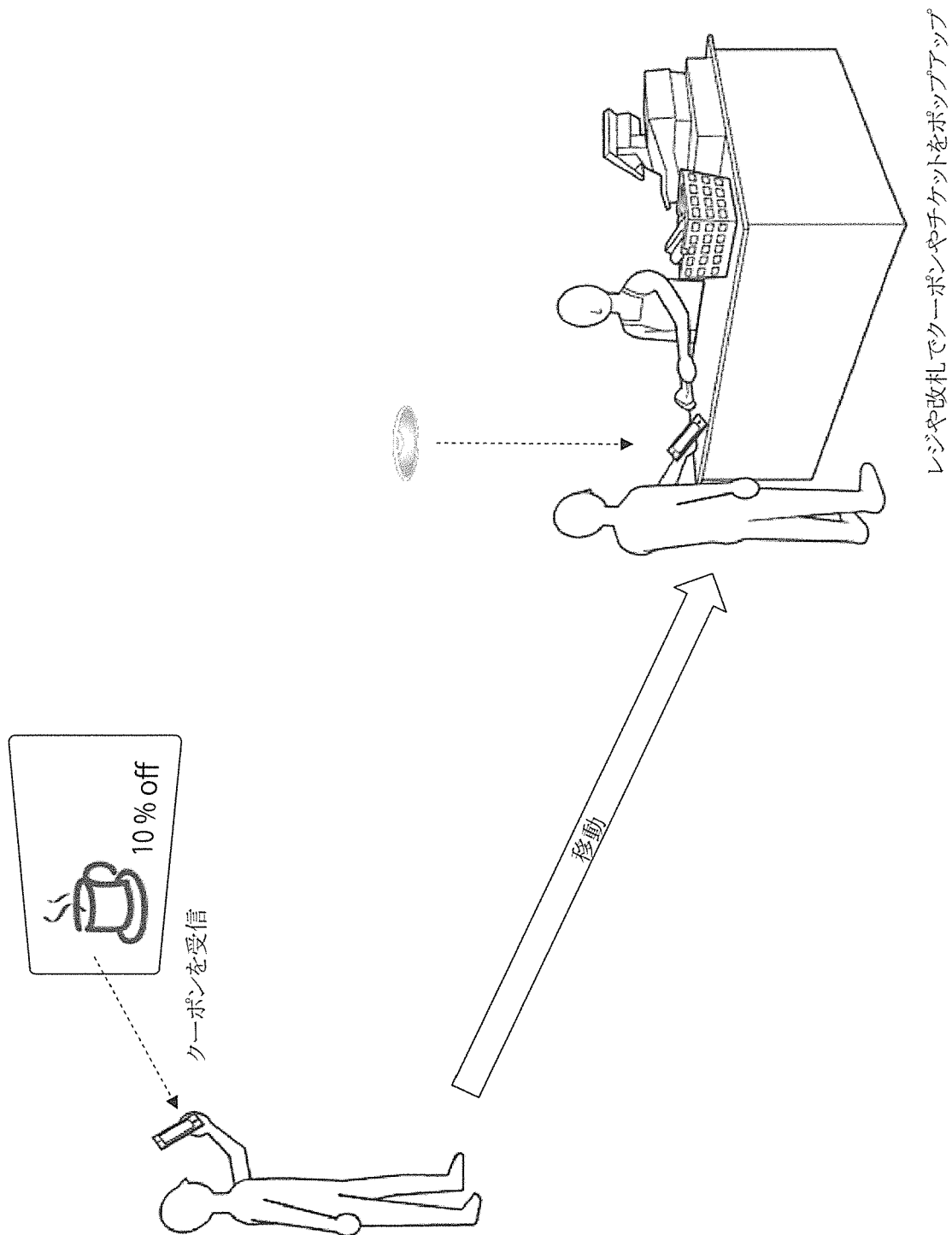
[図460]



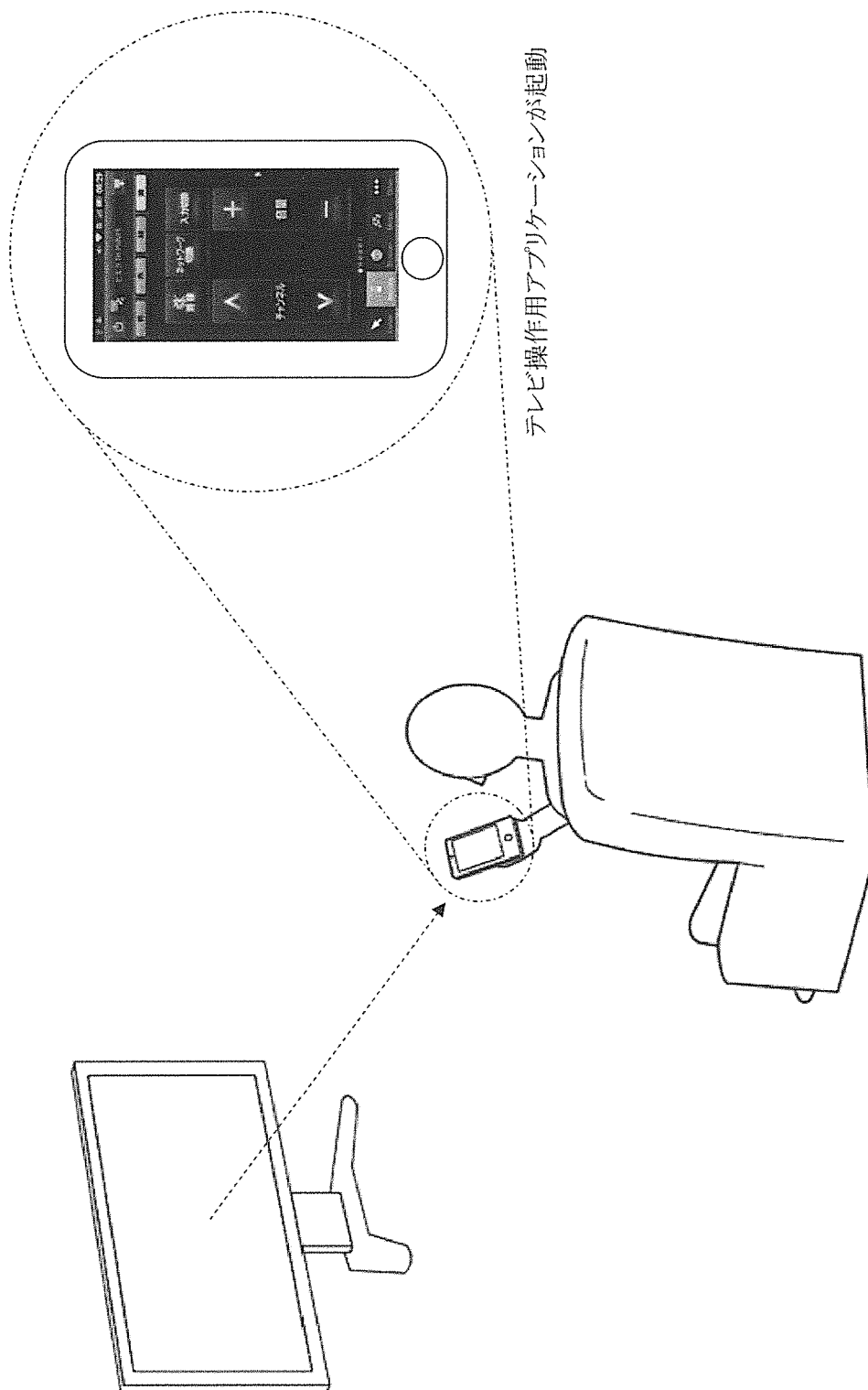
[図461]



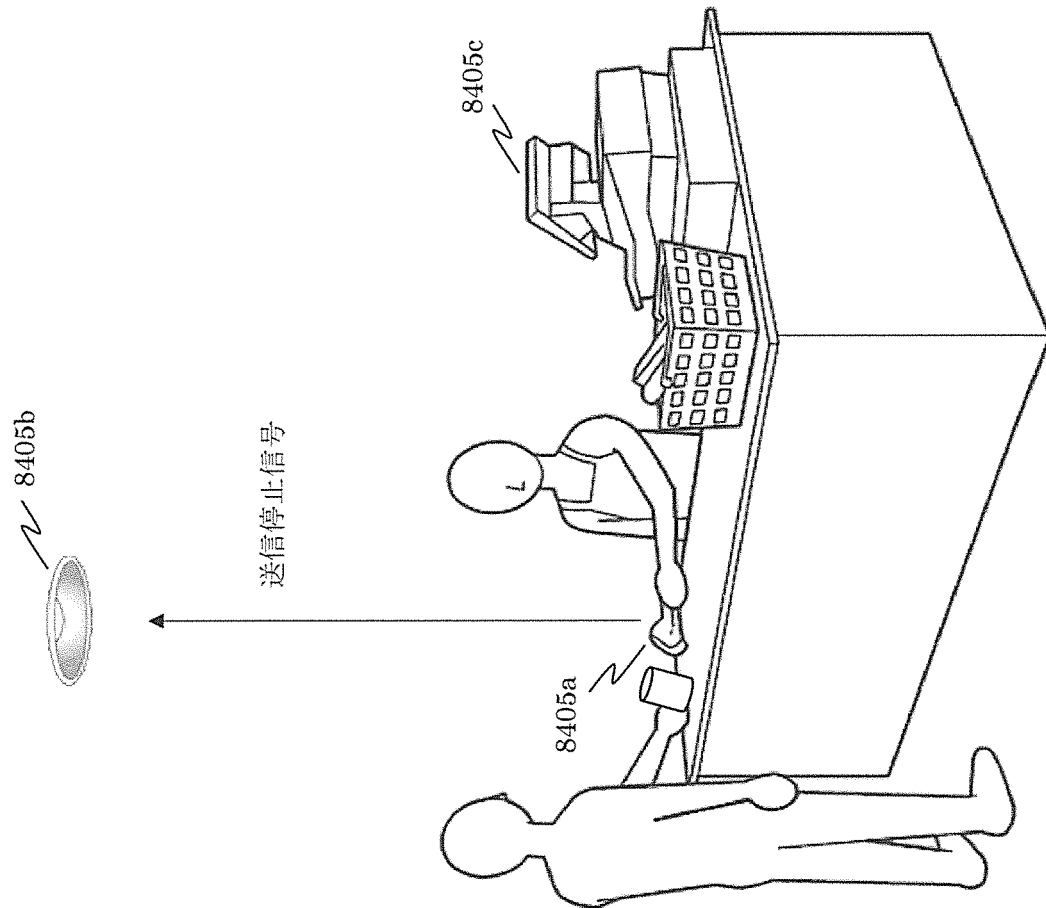
[図462]



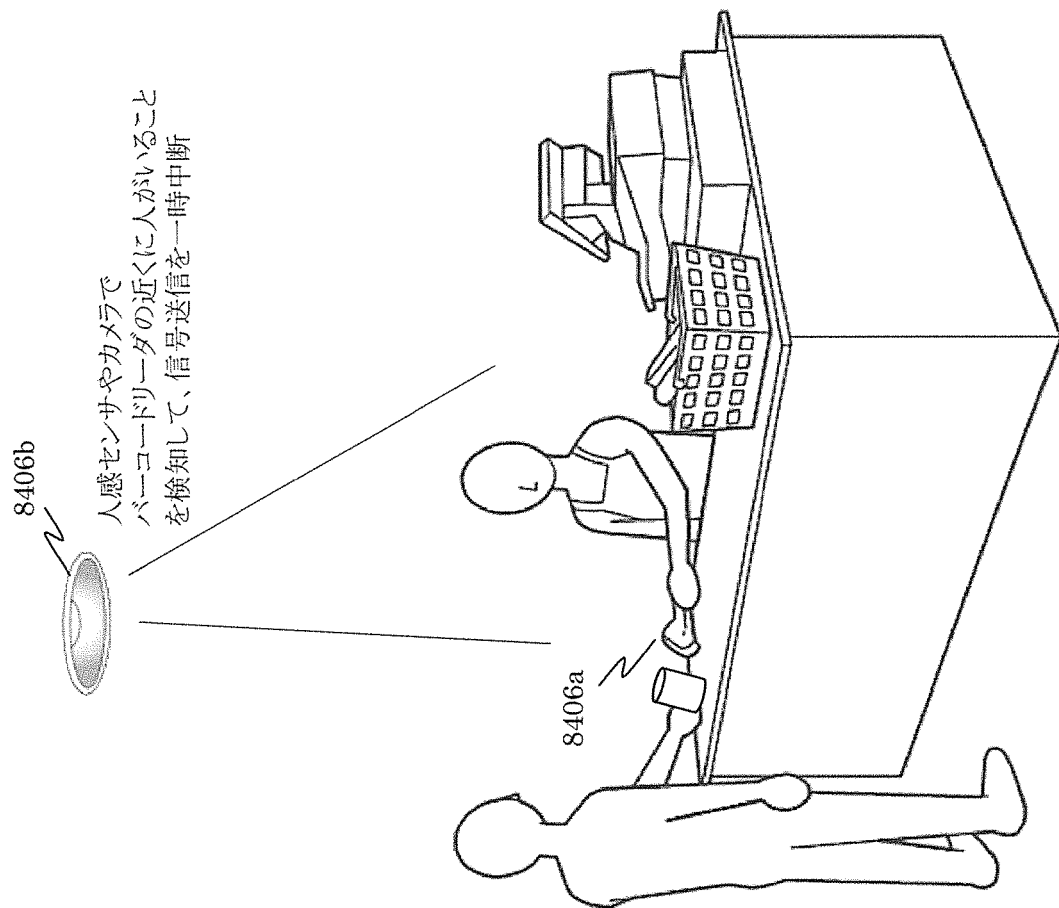
[図463]



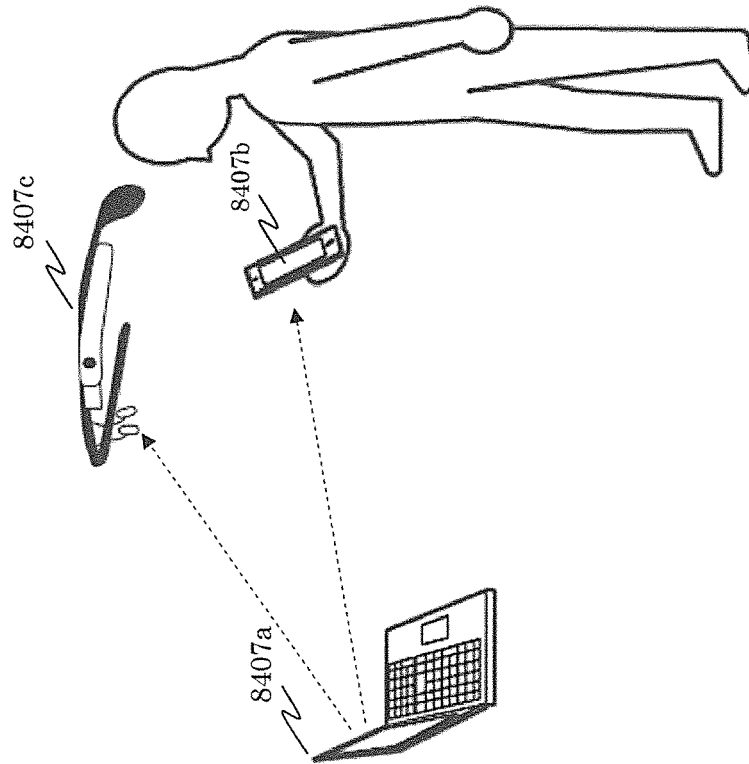
[図464]



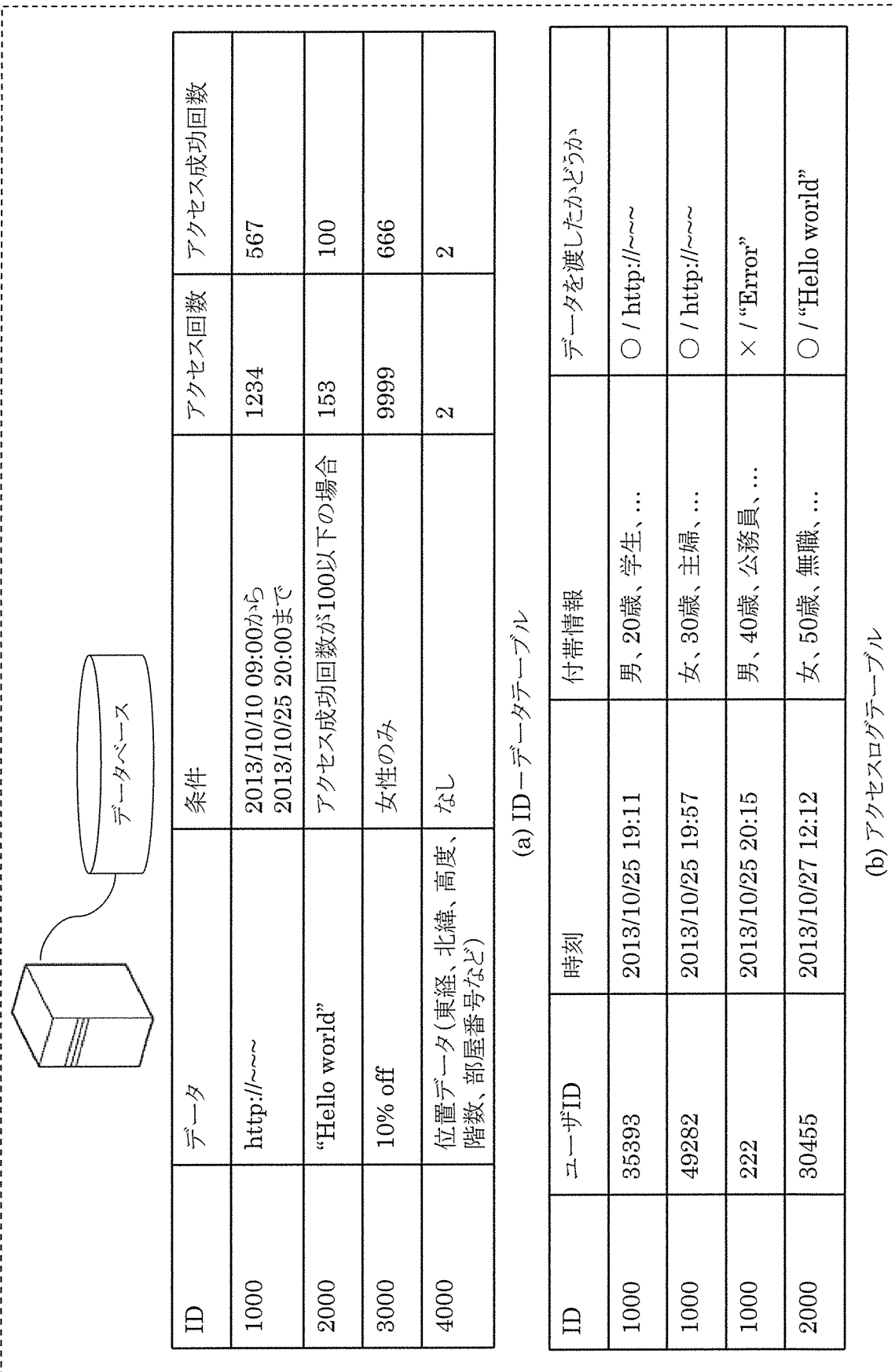
[図465]



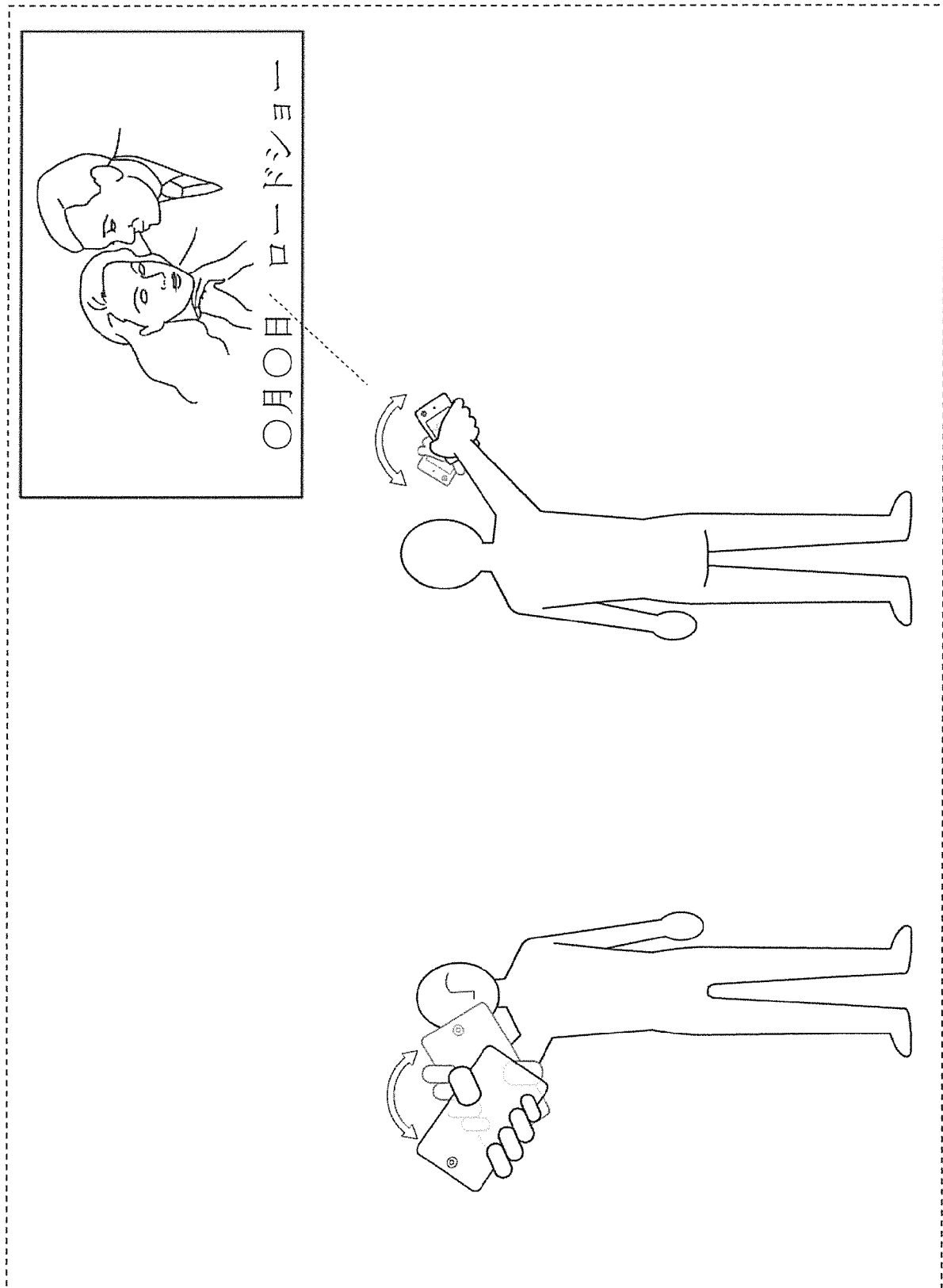
[図466]



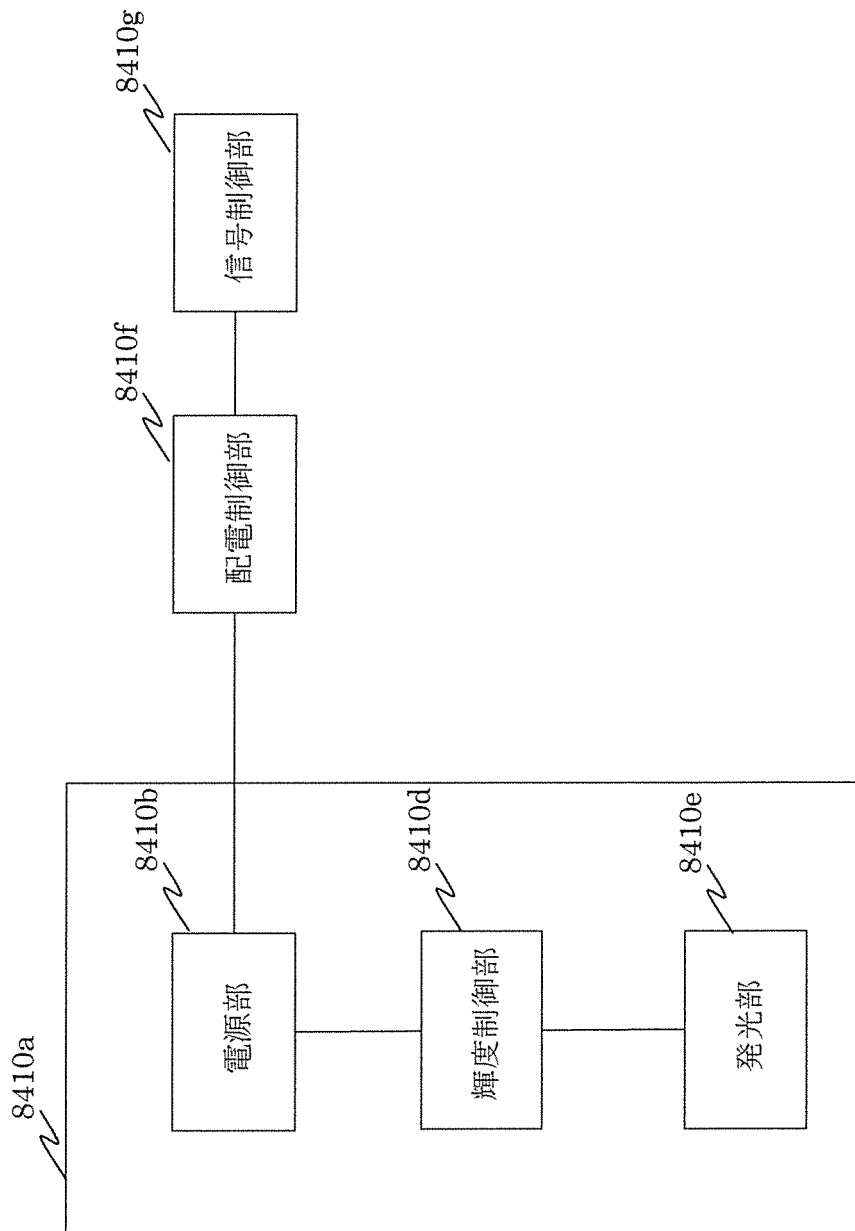
[図467]



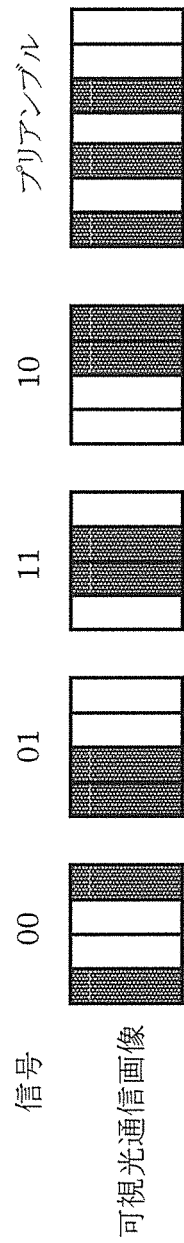
[図468]



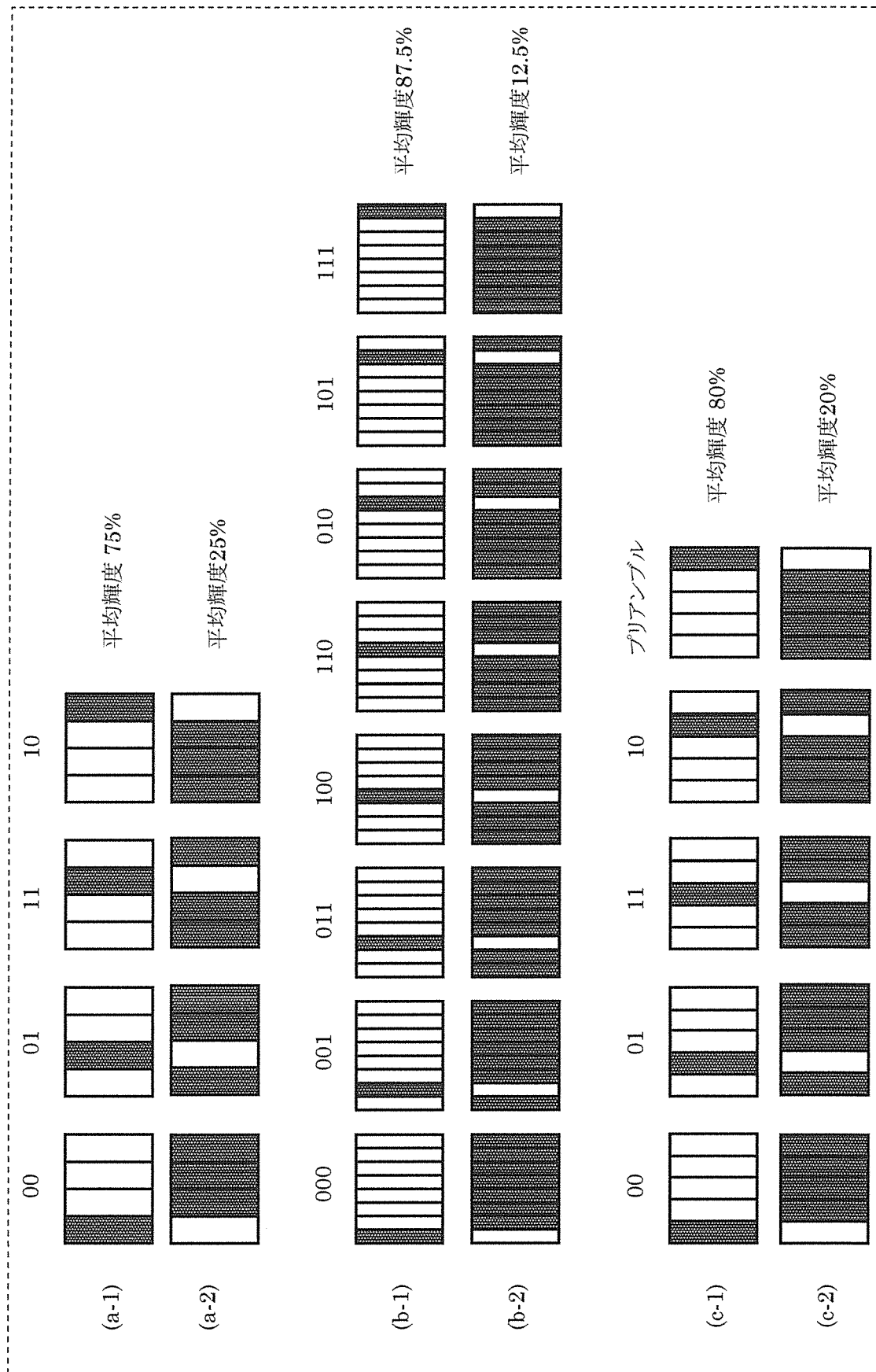
[図469]



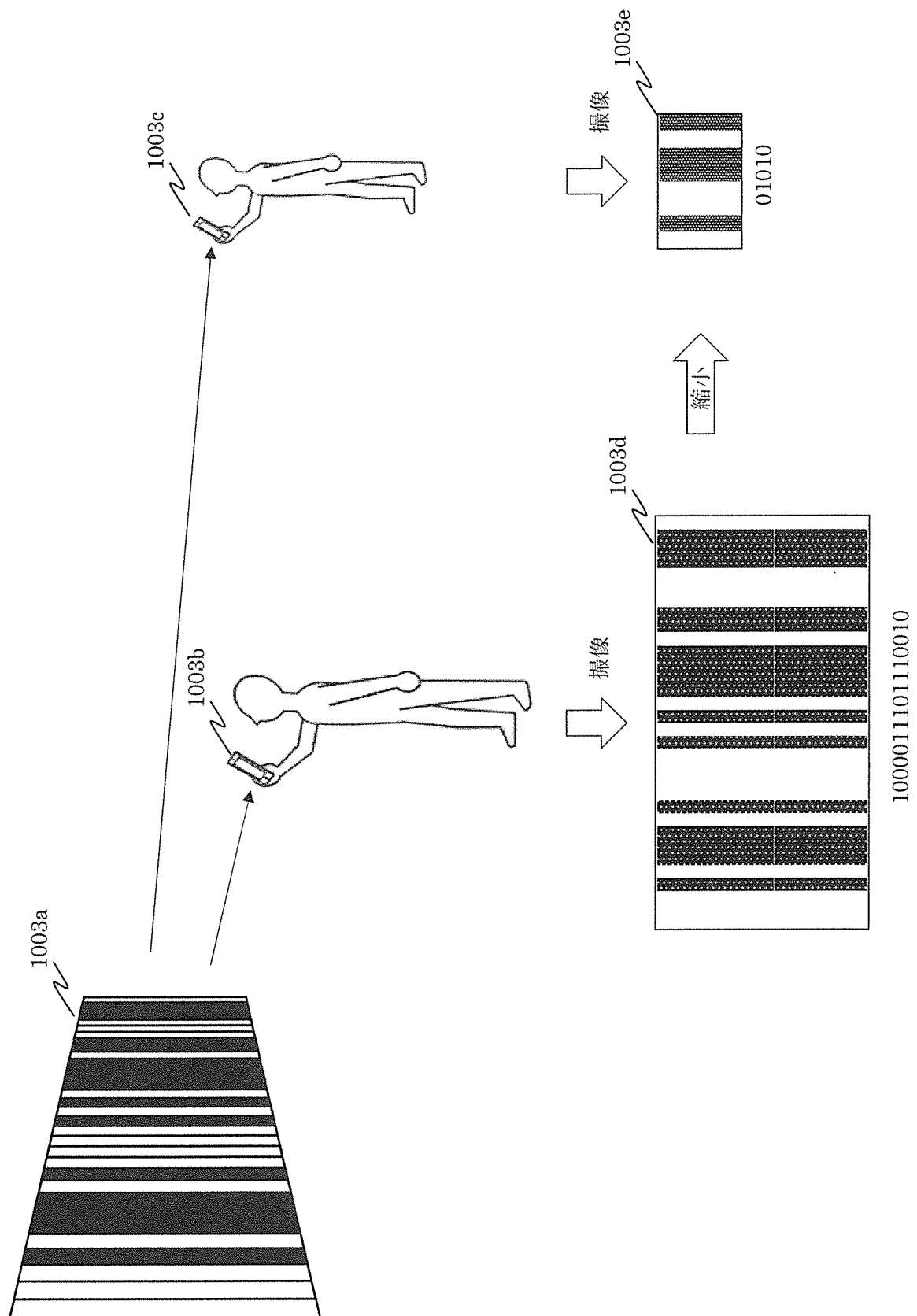
[図470]



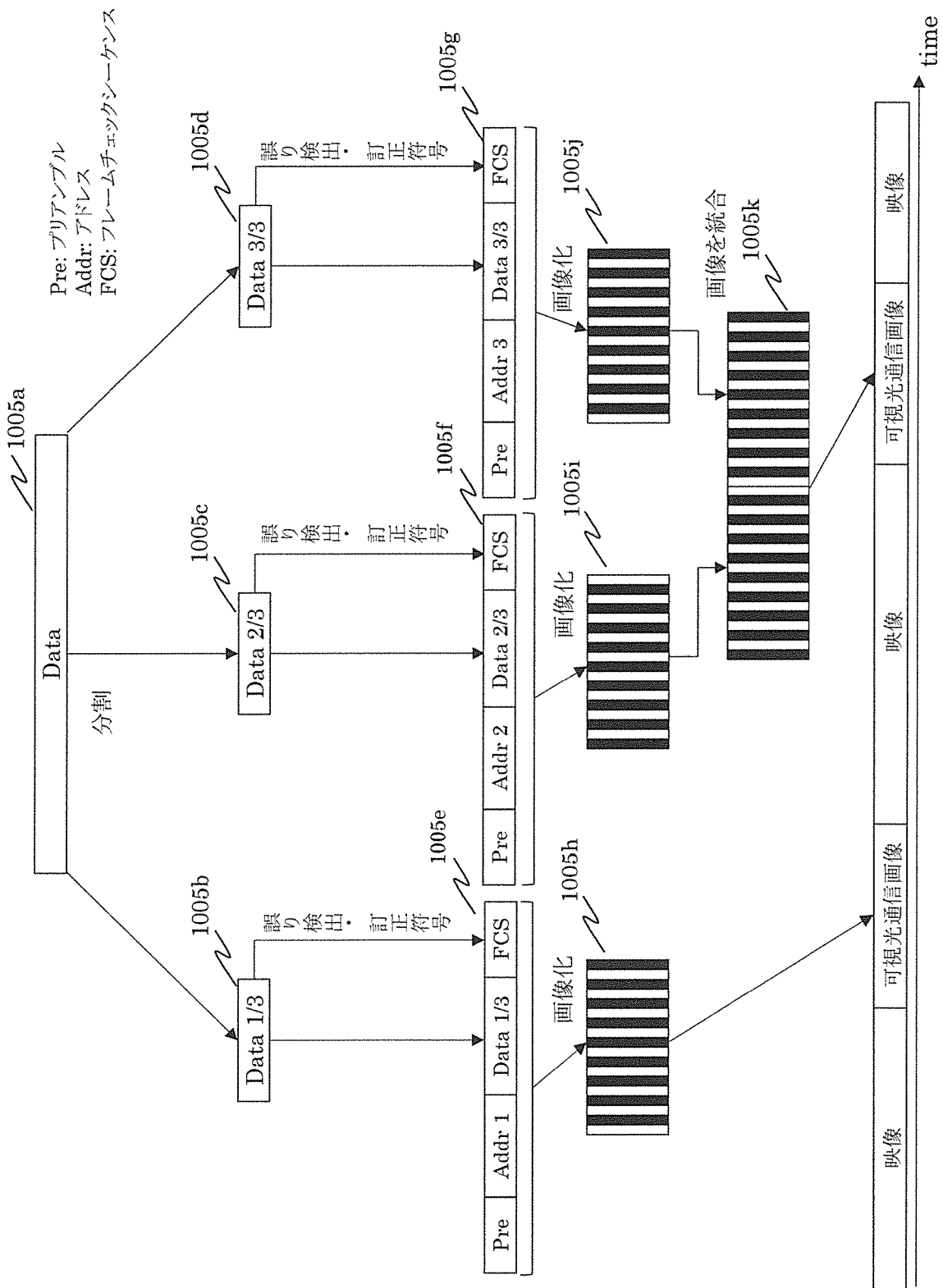
[図472]



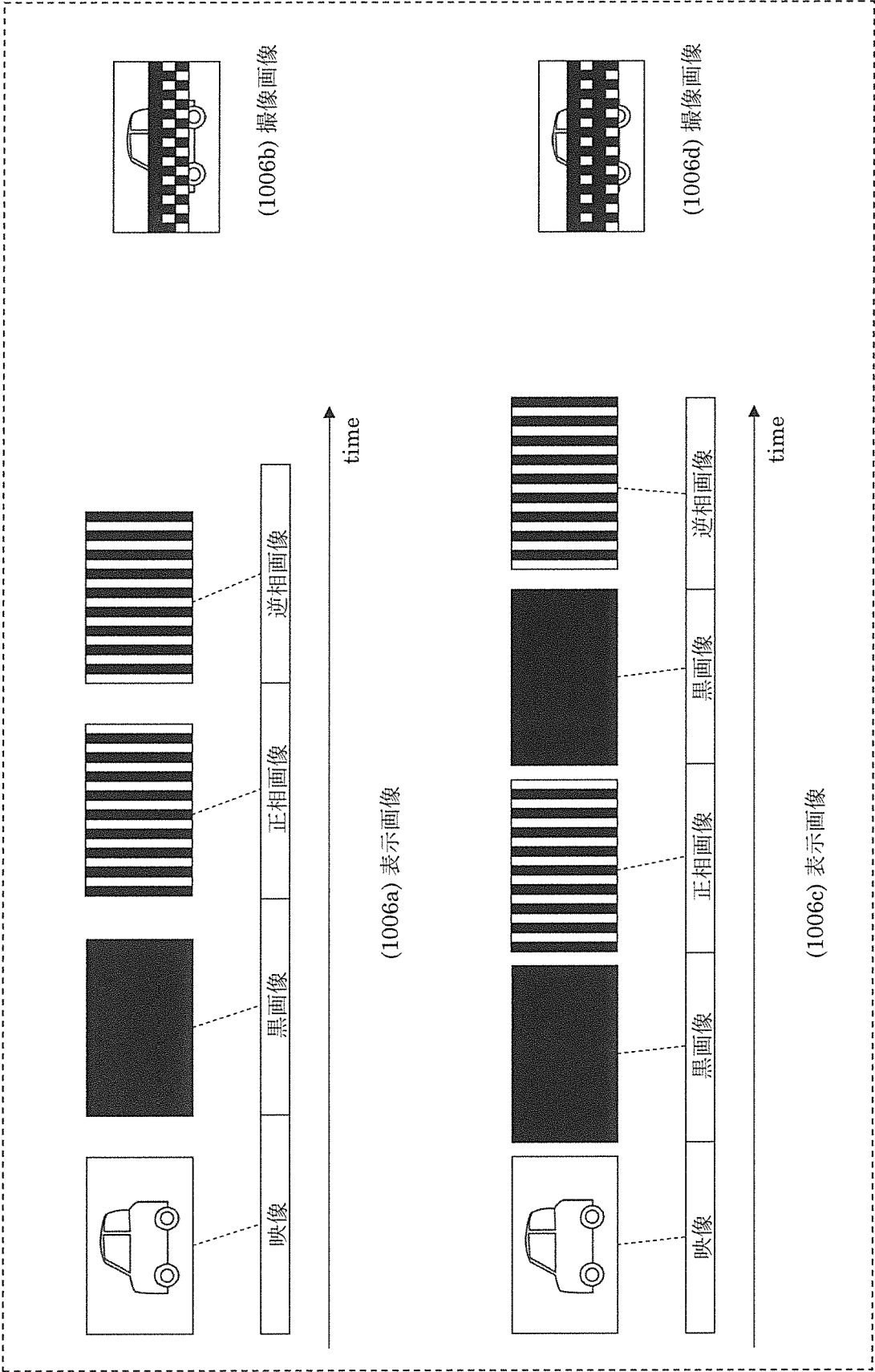
[図473]



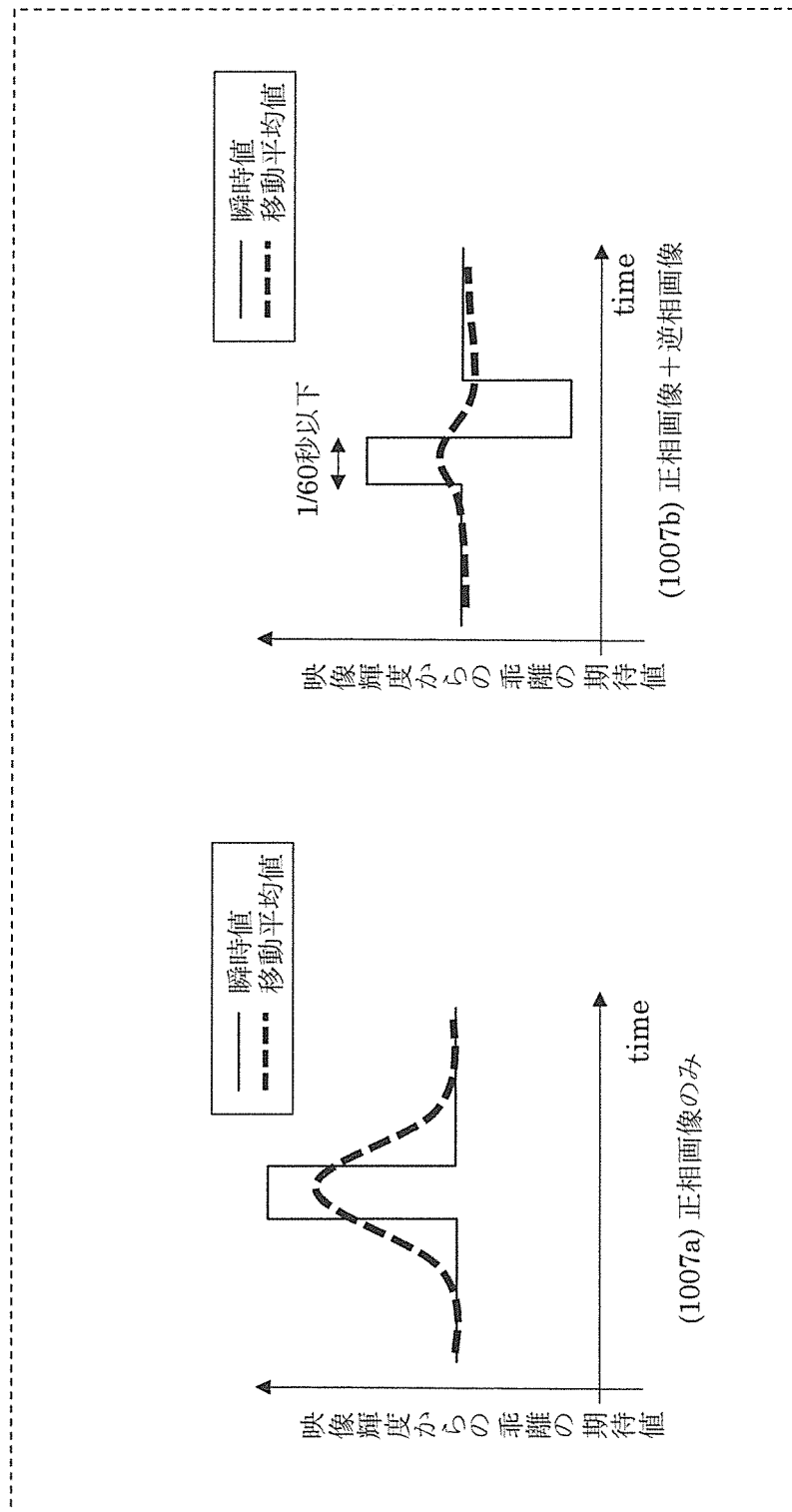
[図474]



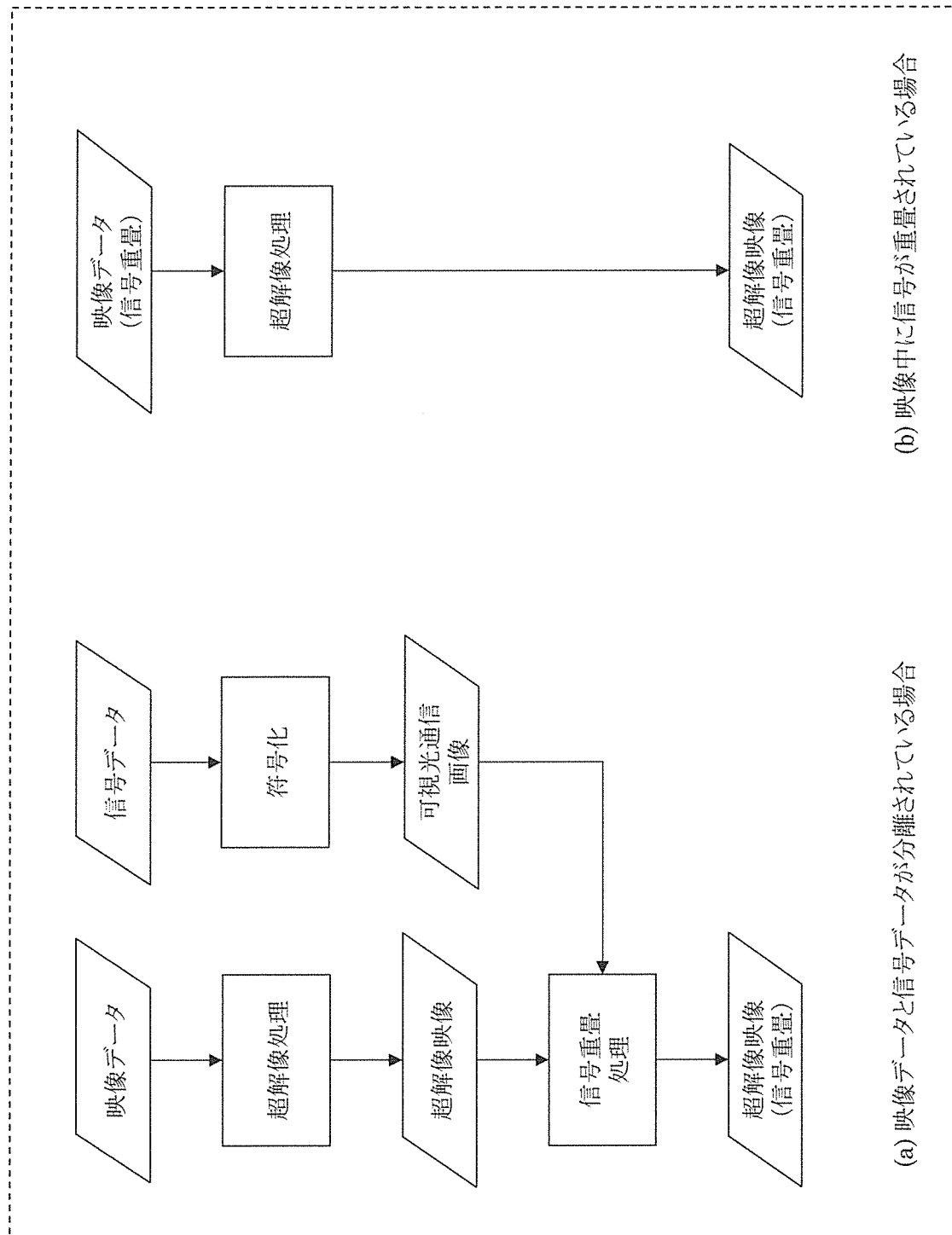
[図475]



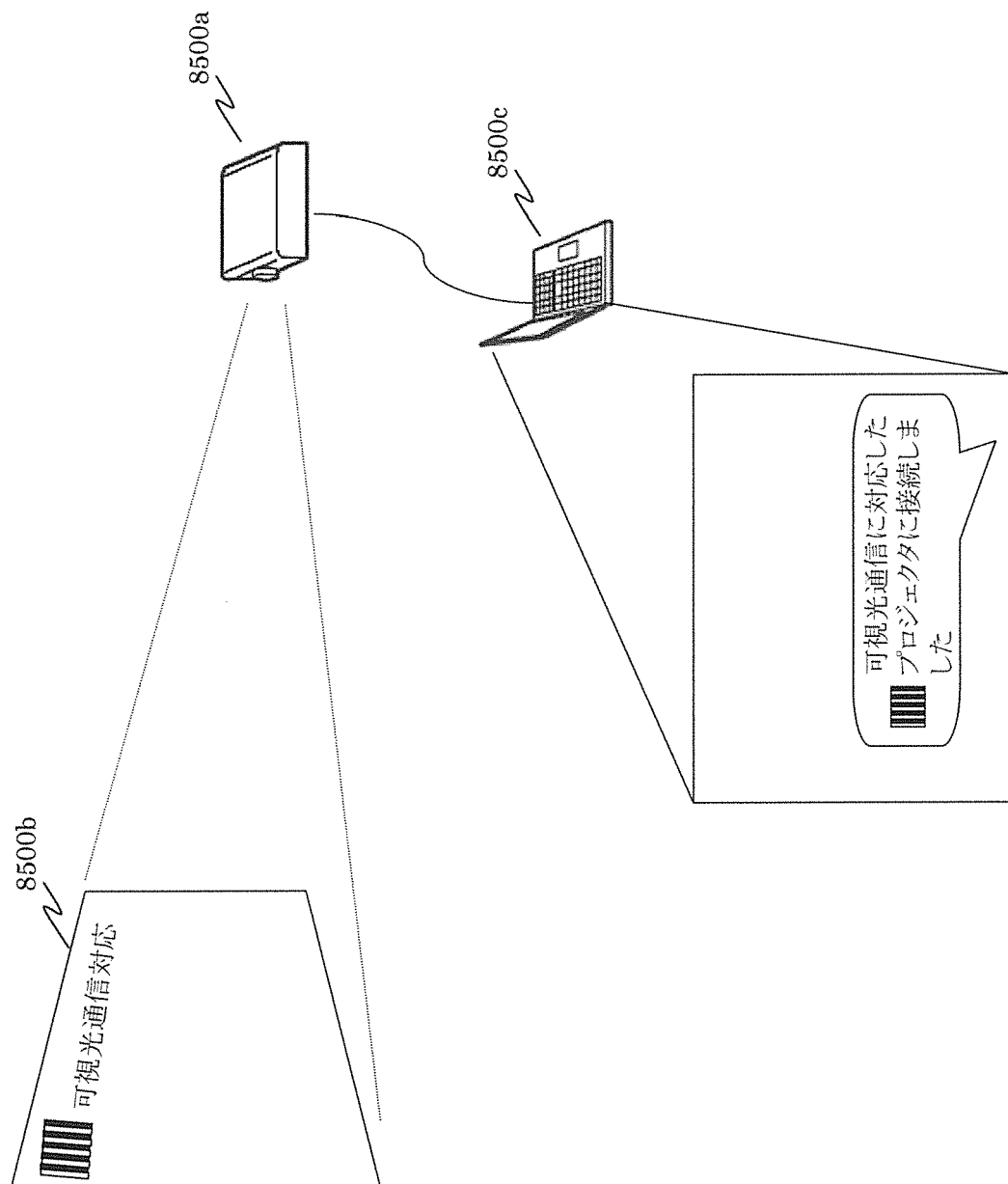
[図476]



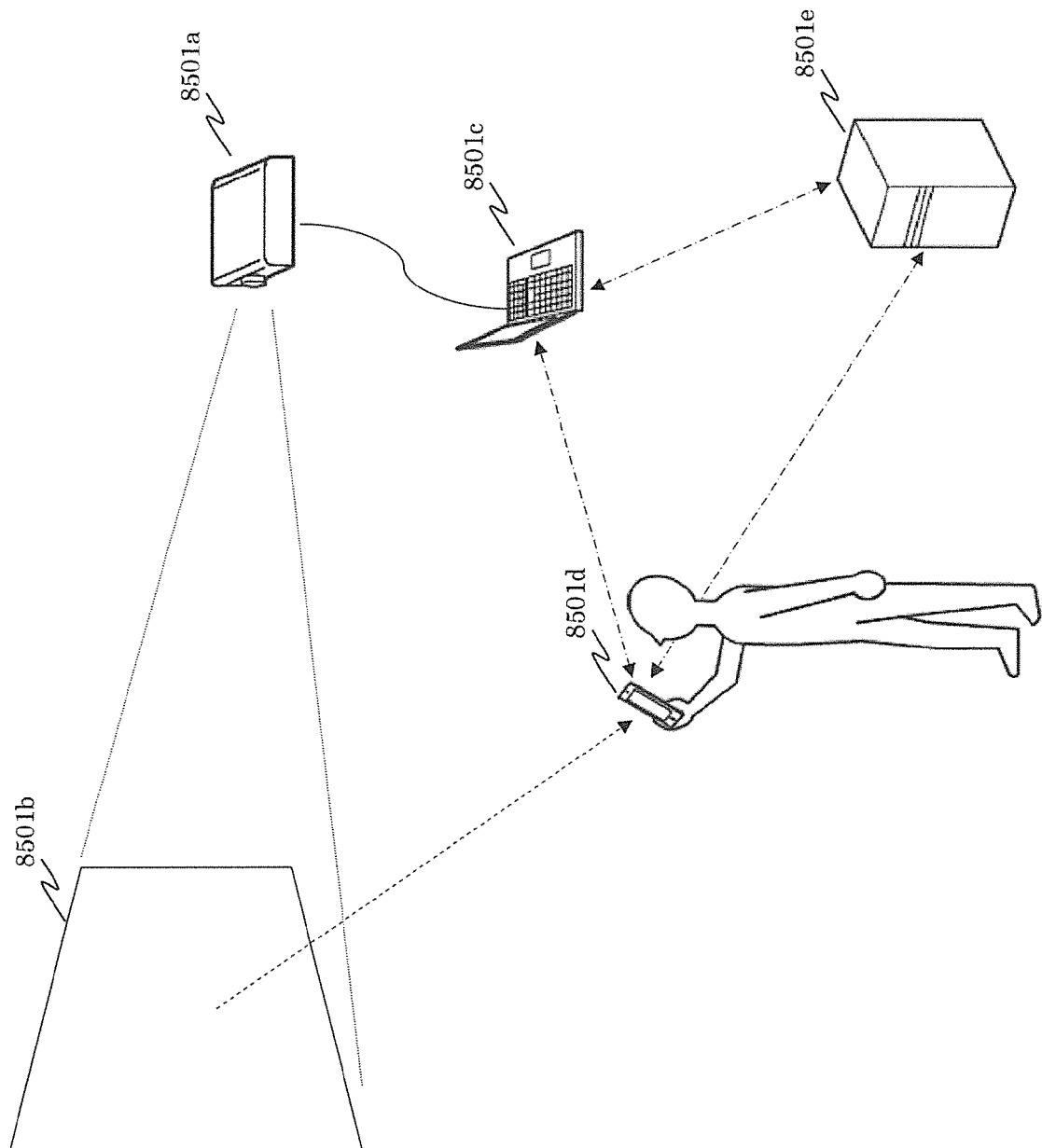
[図477]



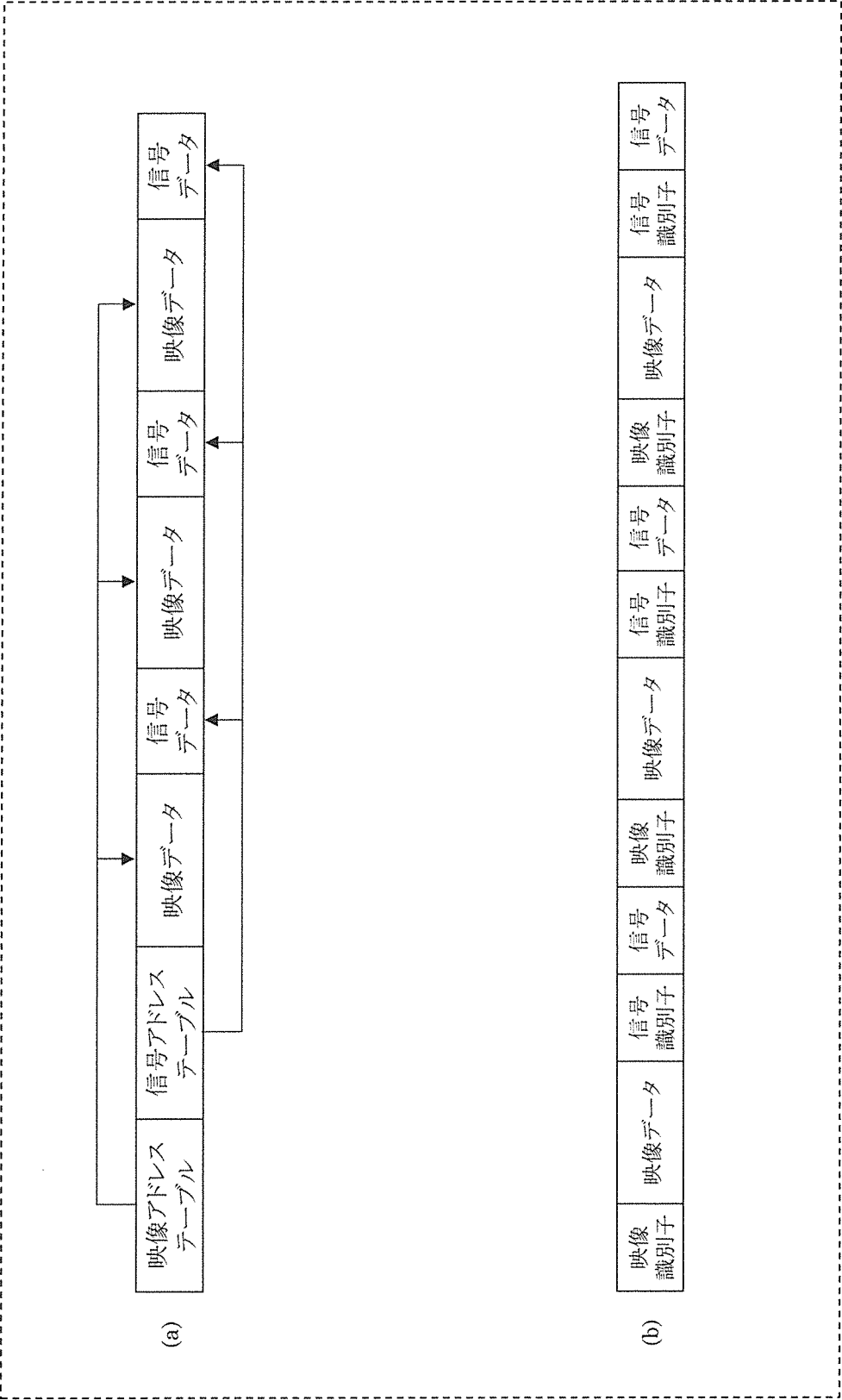
[図478]



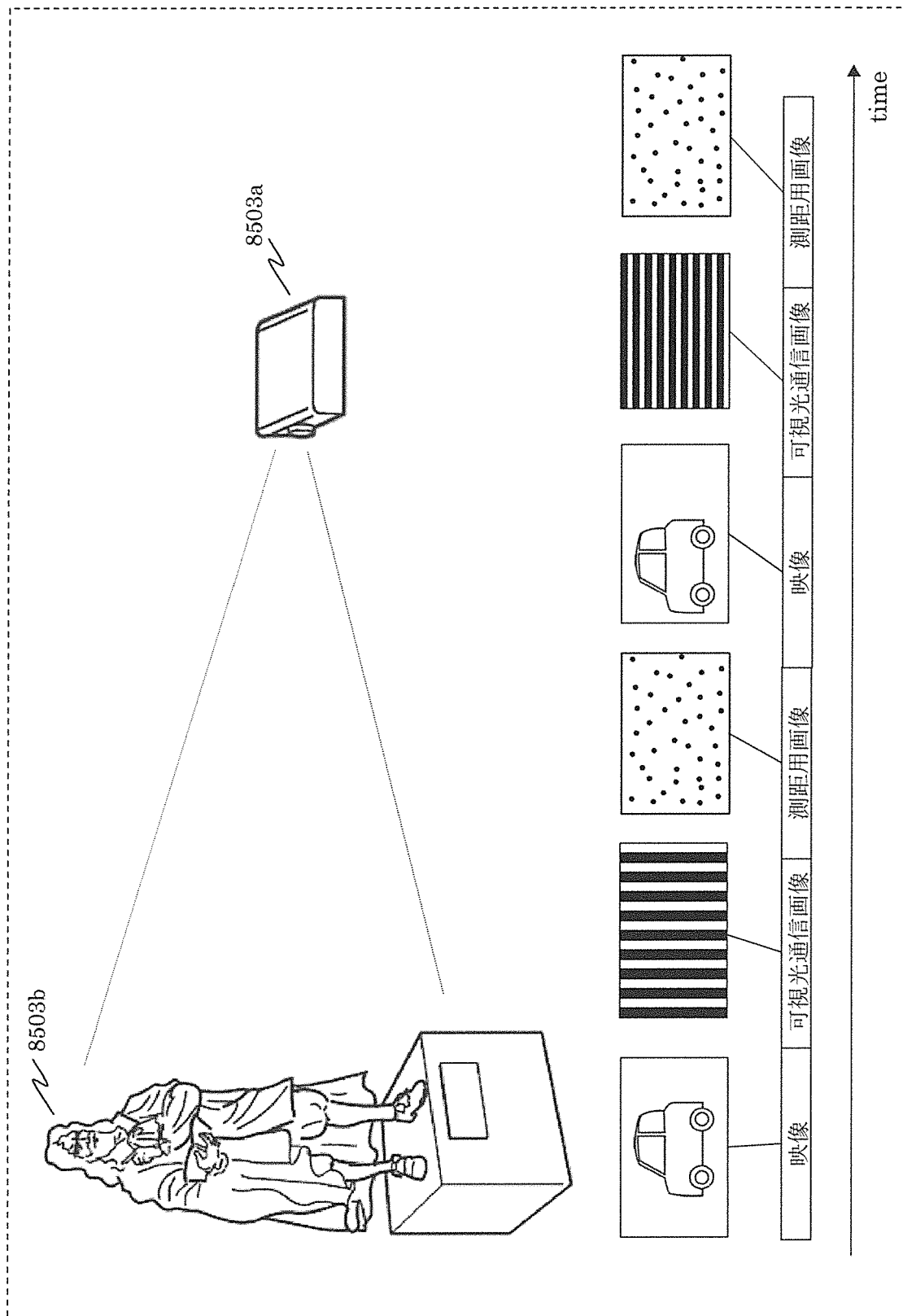
[図479]



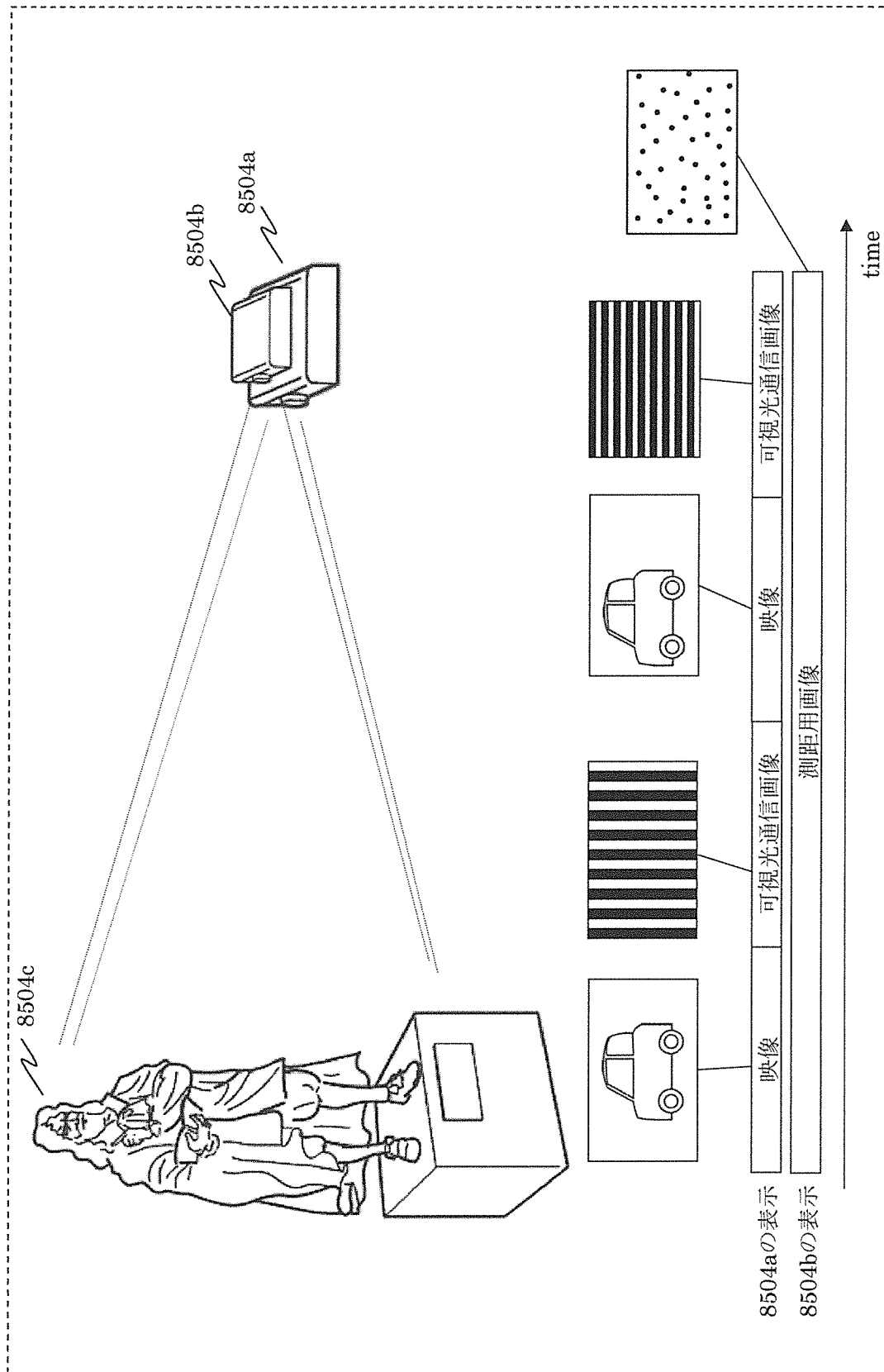
[図480]



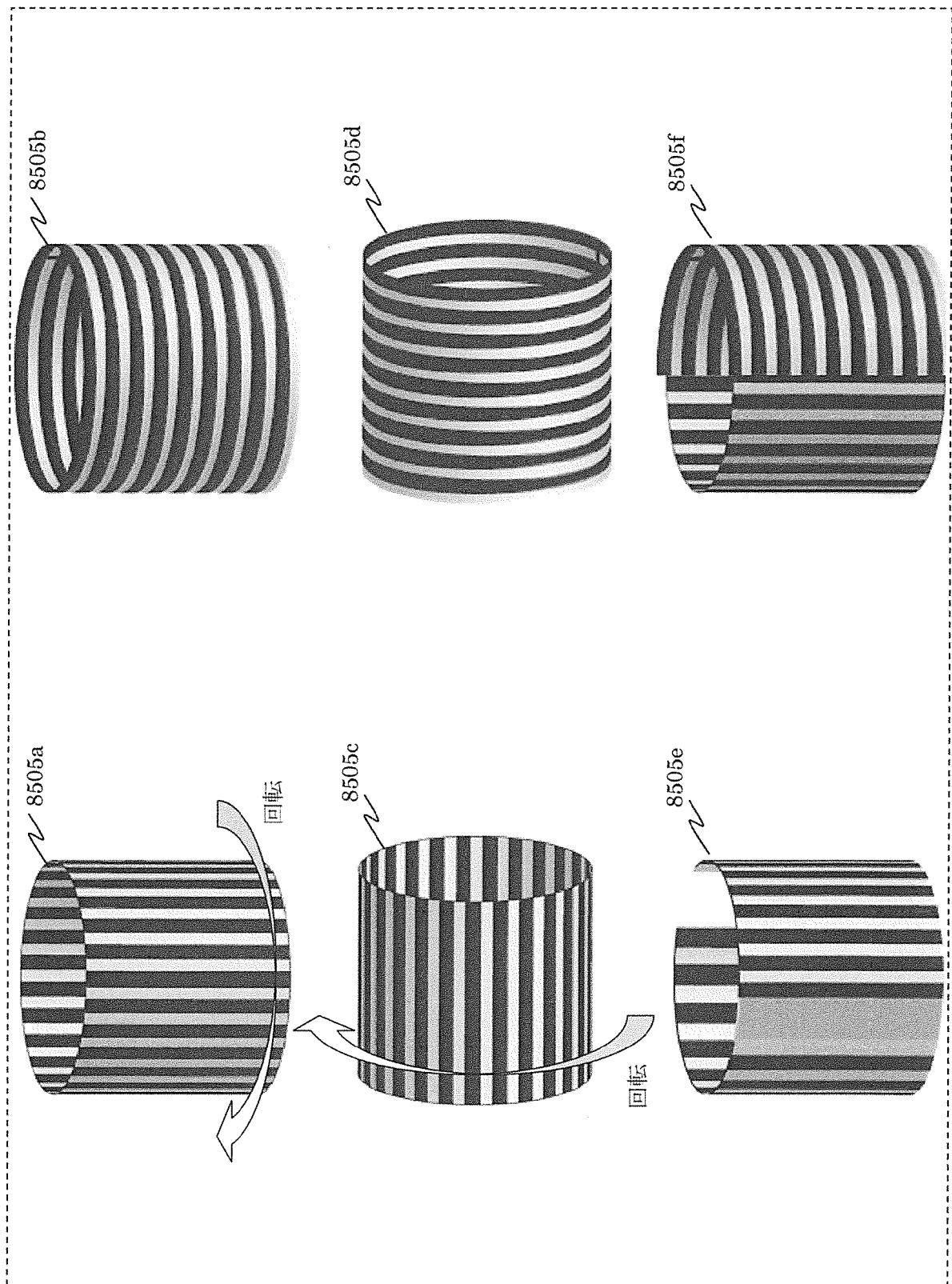
[図481]



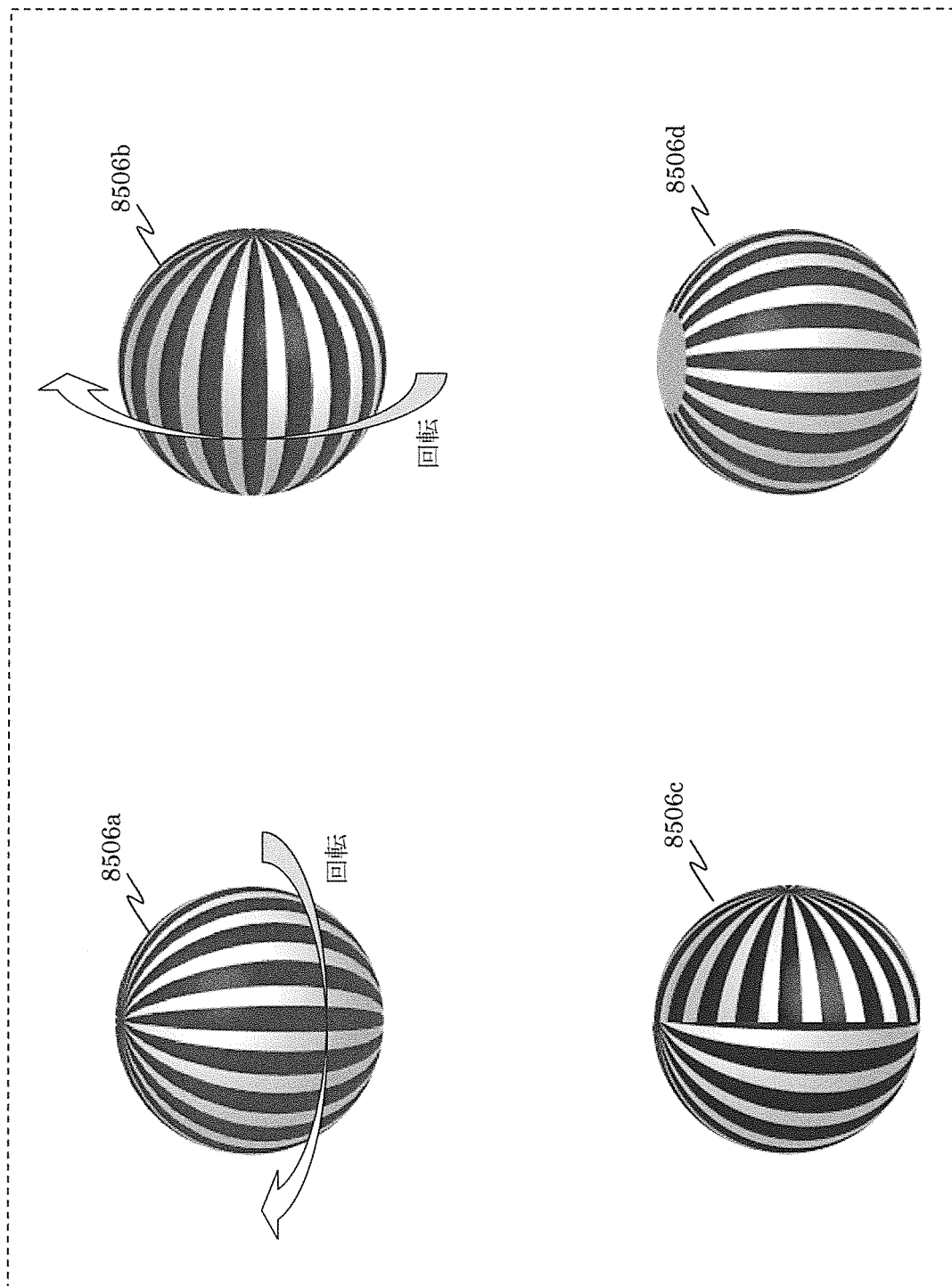
[図482]



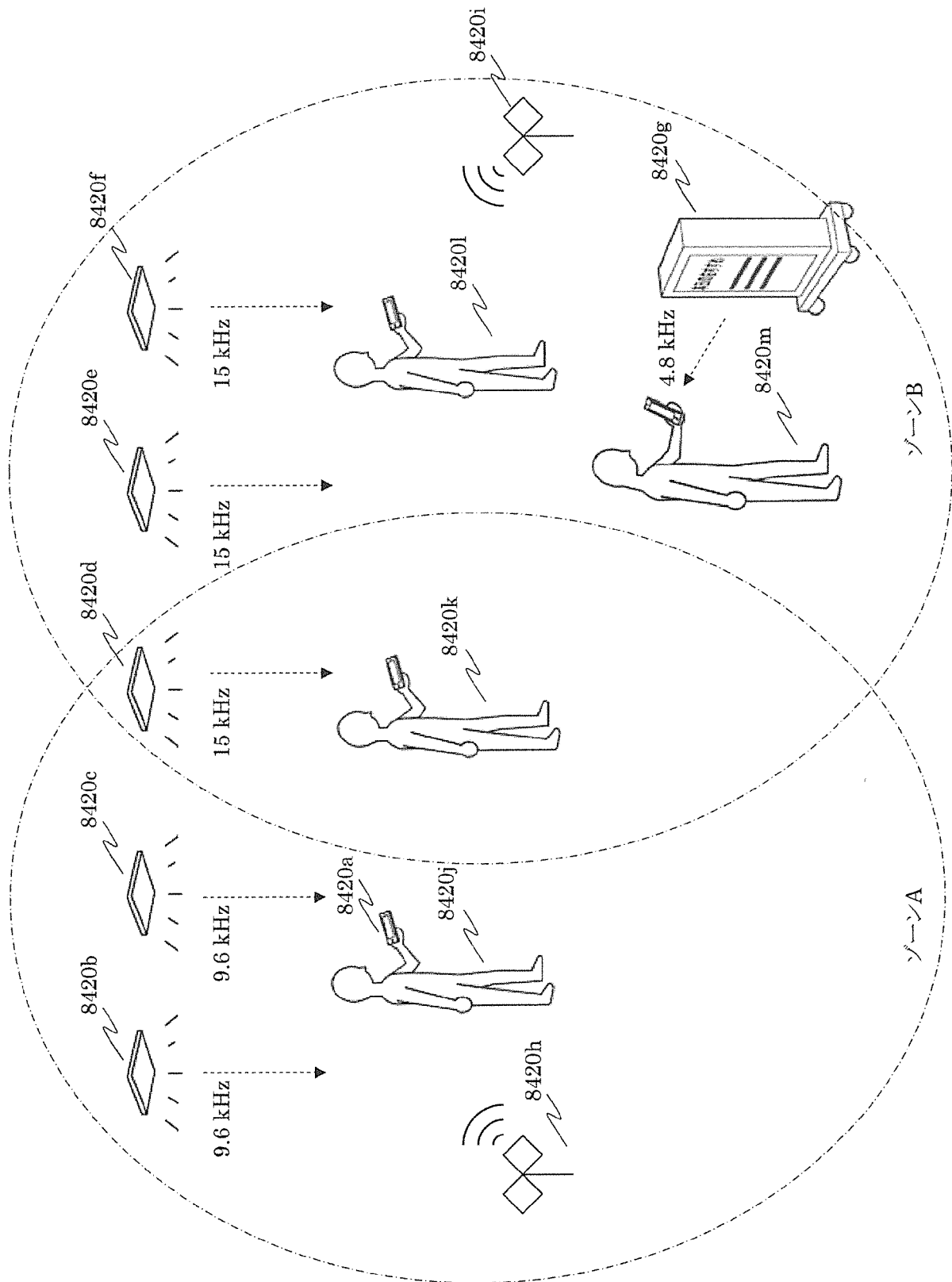
[図483]



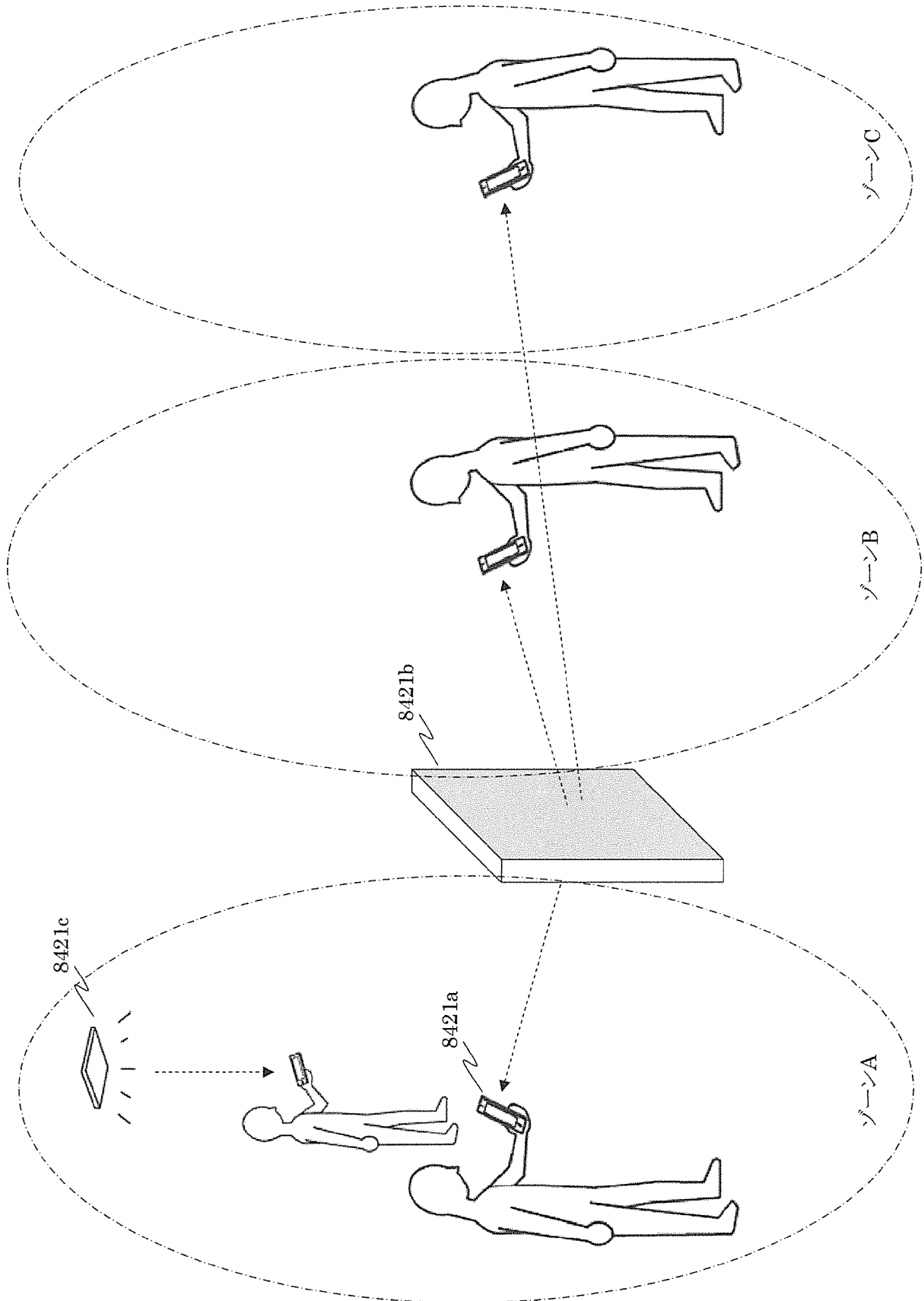
[図484]



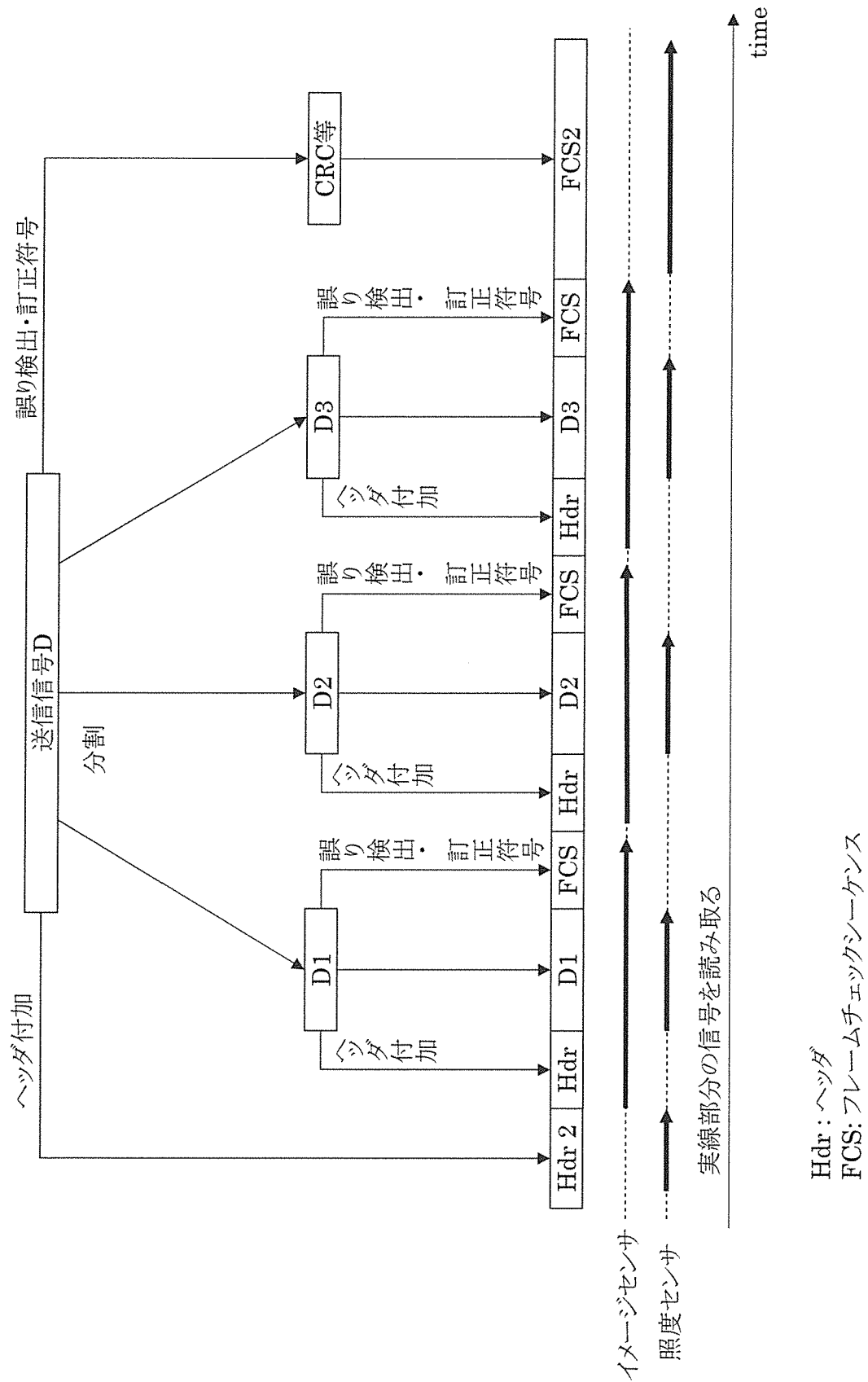
[図485]



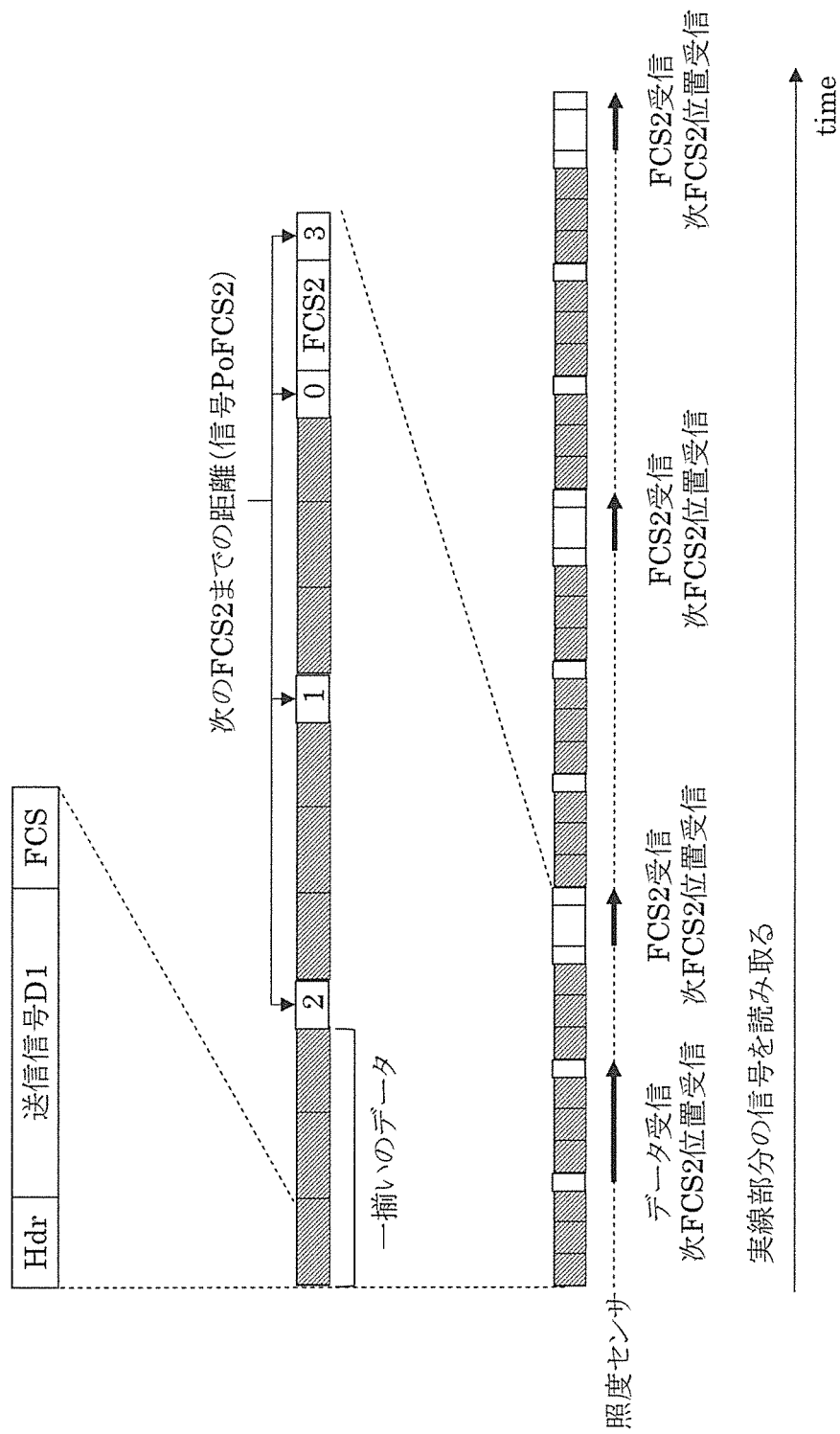
[図486]



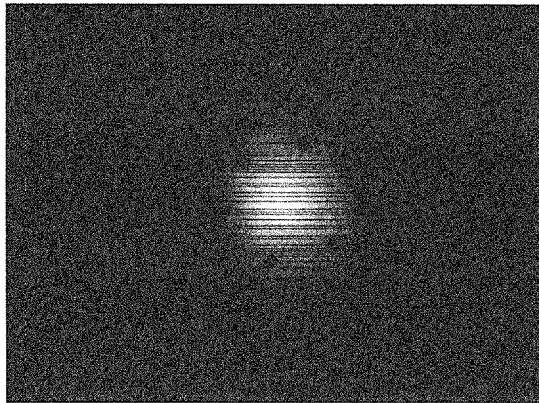
[図487]



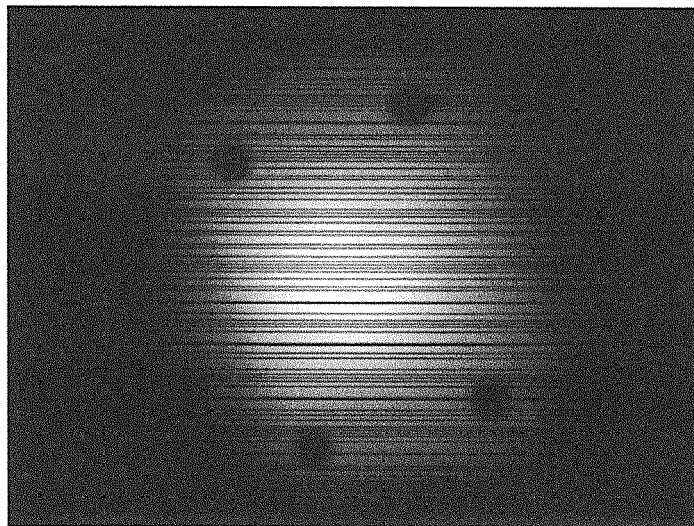
[図488]



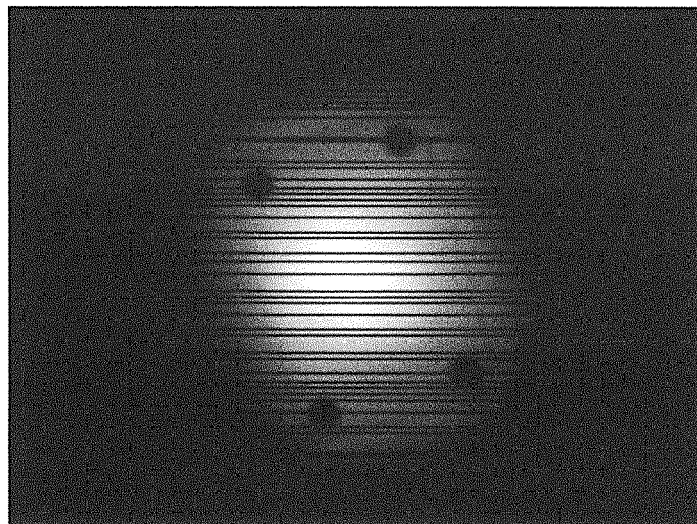
[図489A]



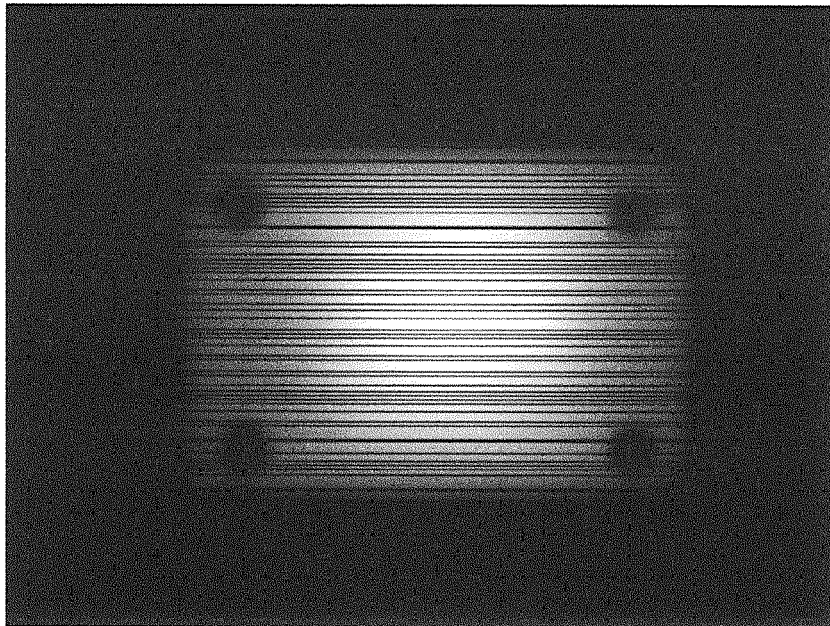
[図489B]



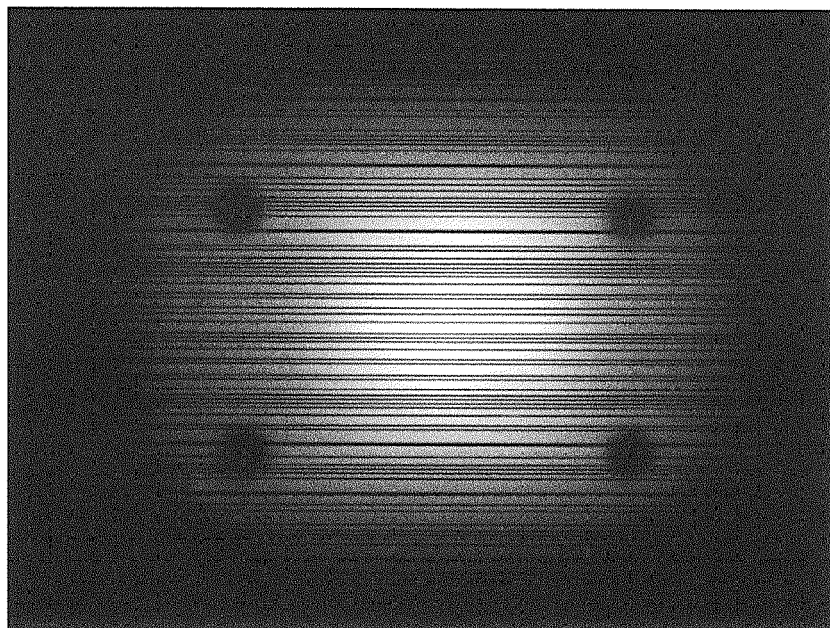
[図489C]



[図490A]



[図490B]



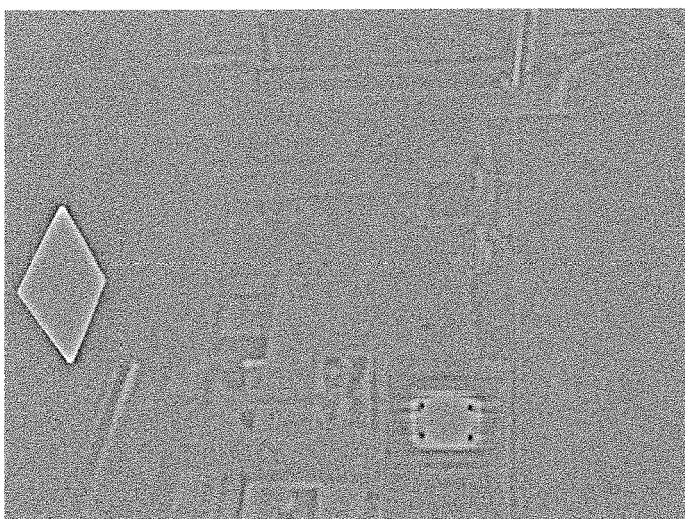
[図491A]



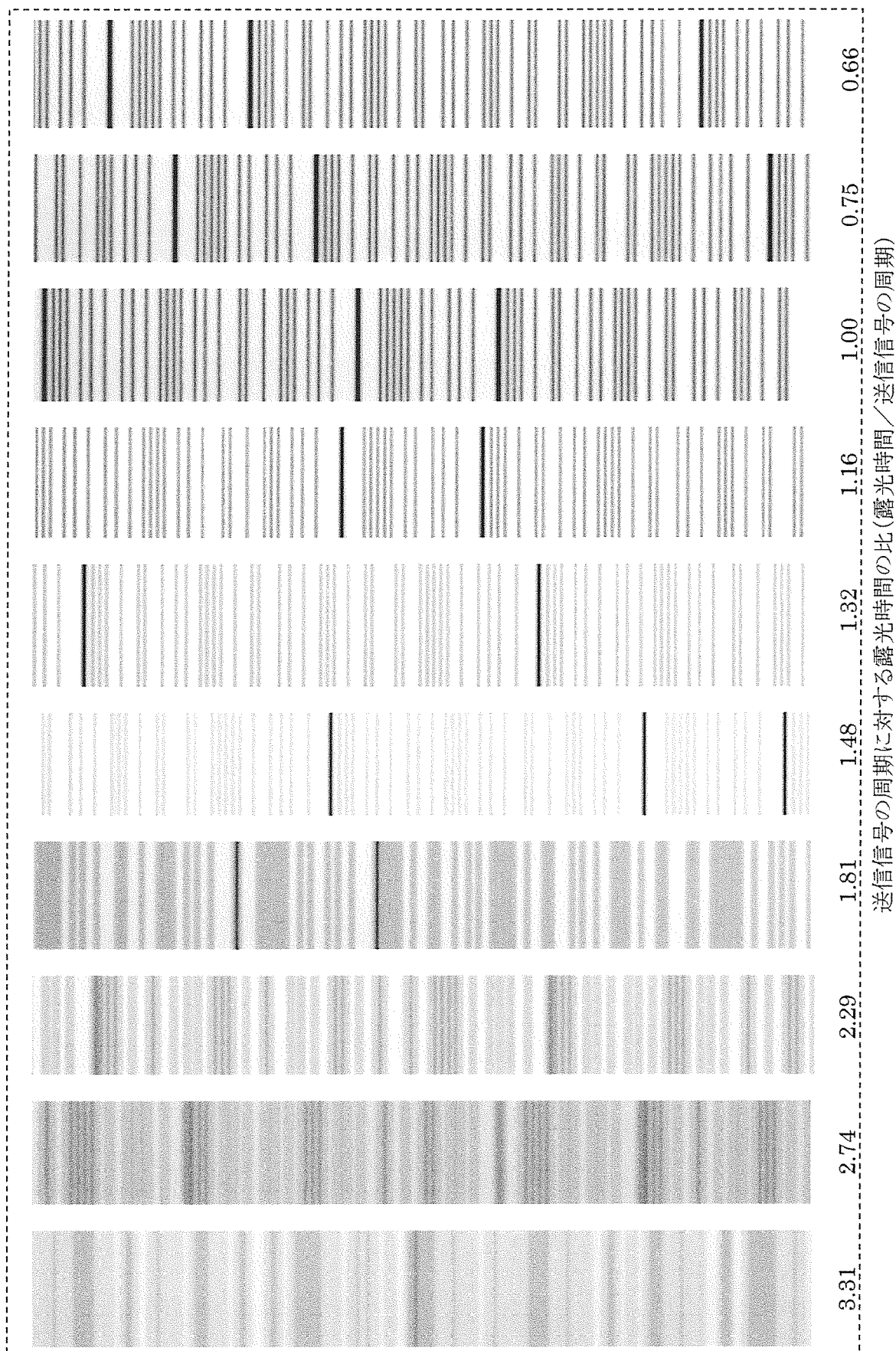
[図491B]



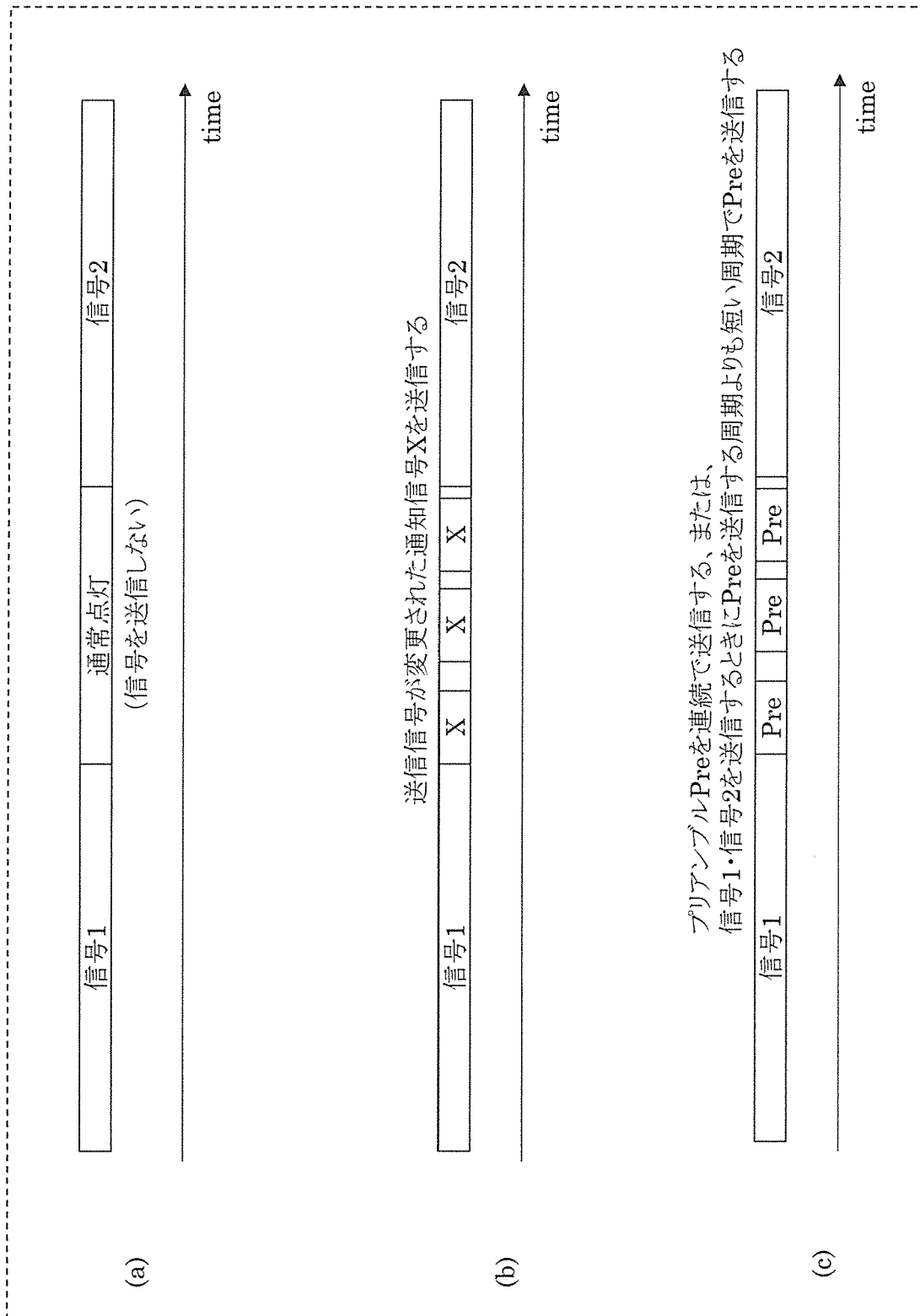
[図491C]



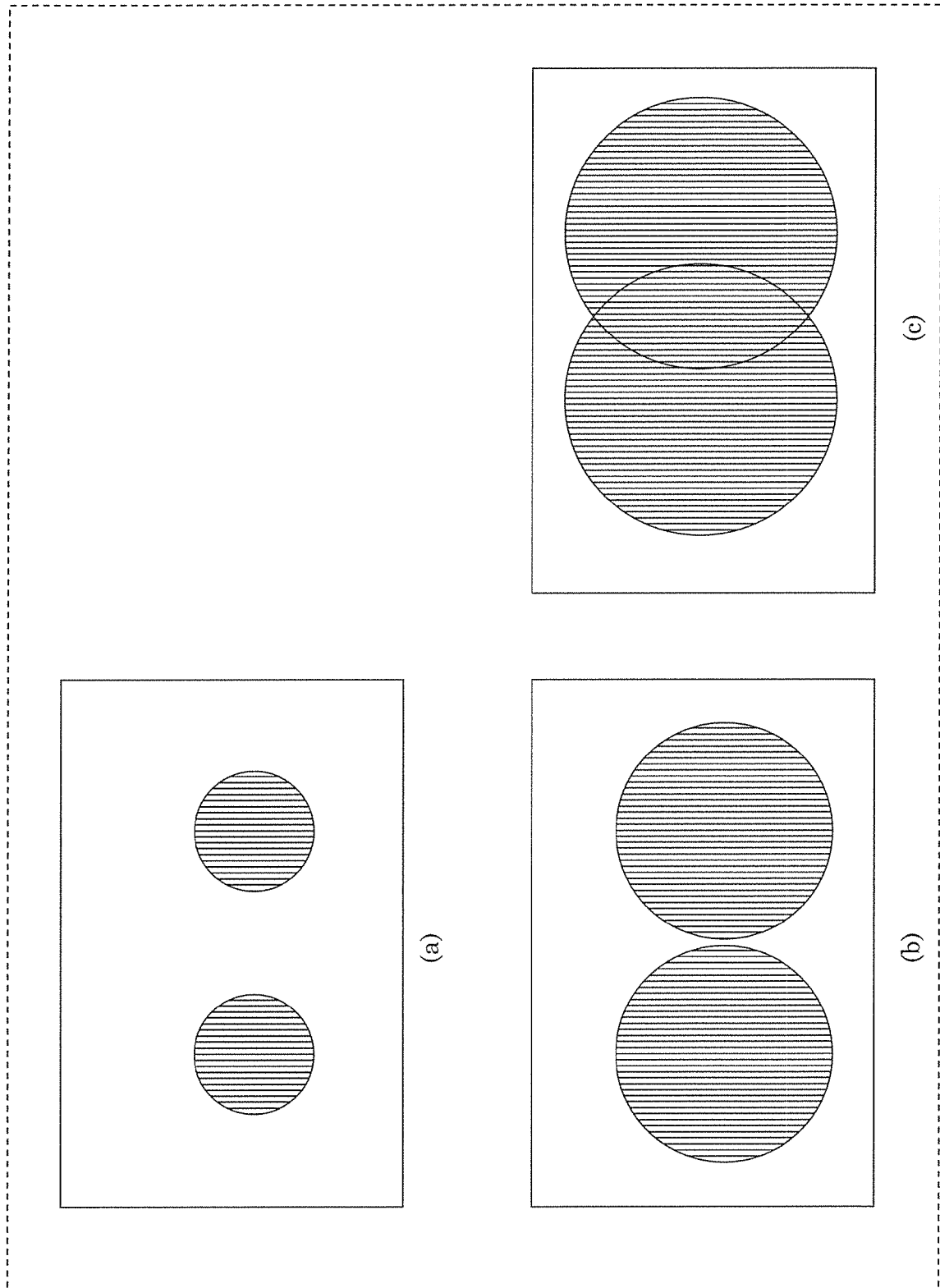
[図492]



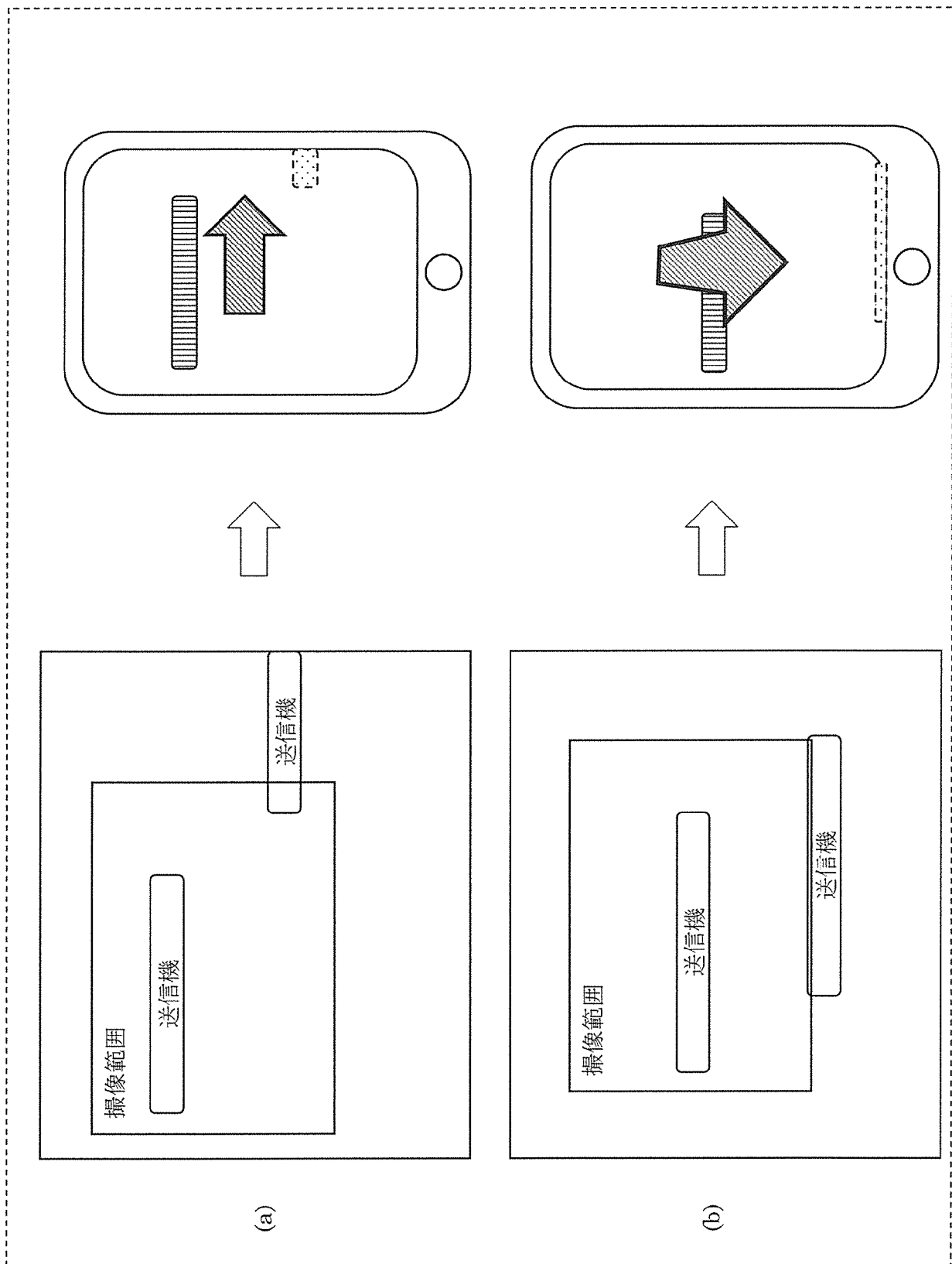
[図493]



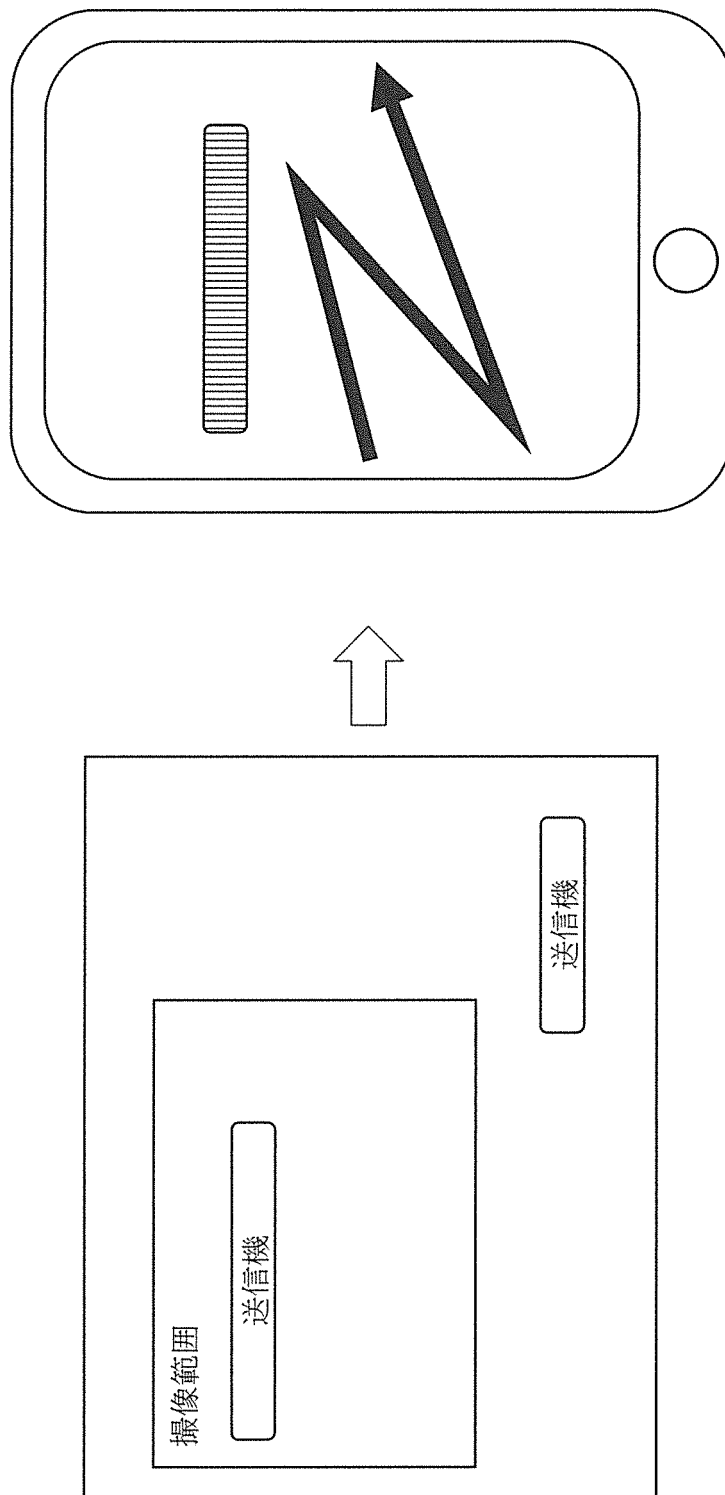
[図494]



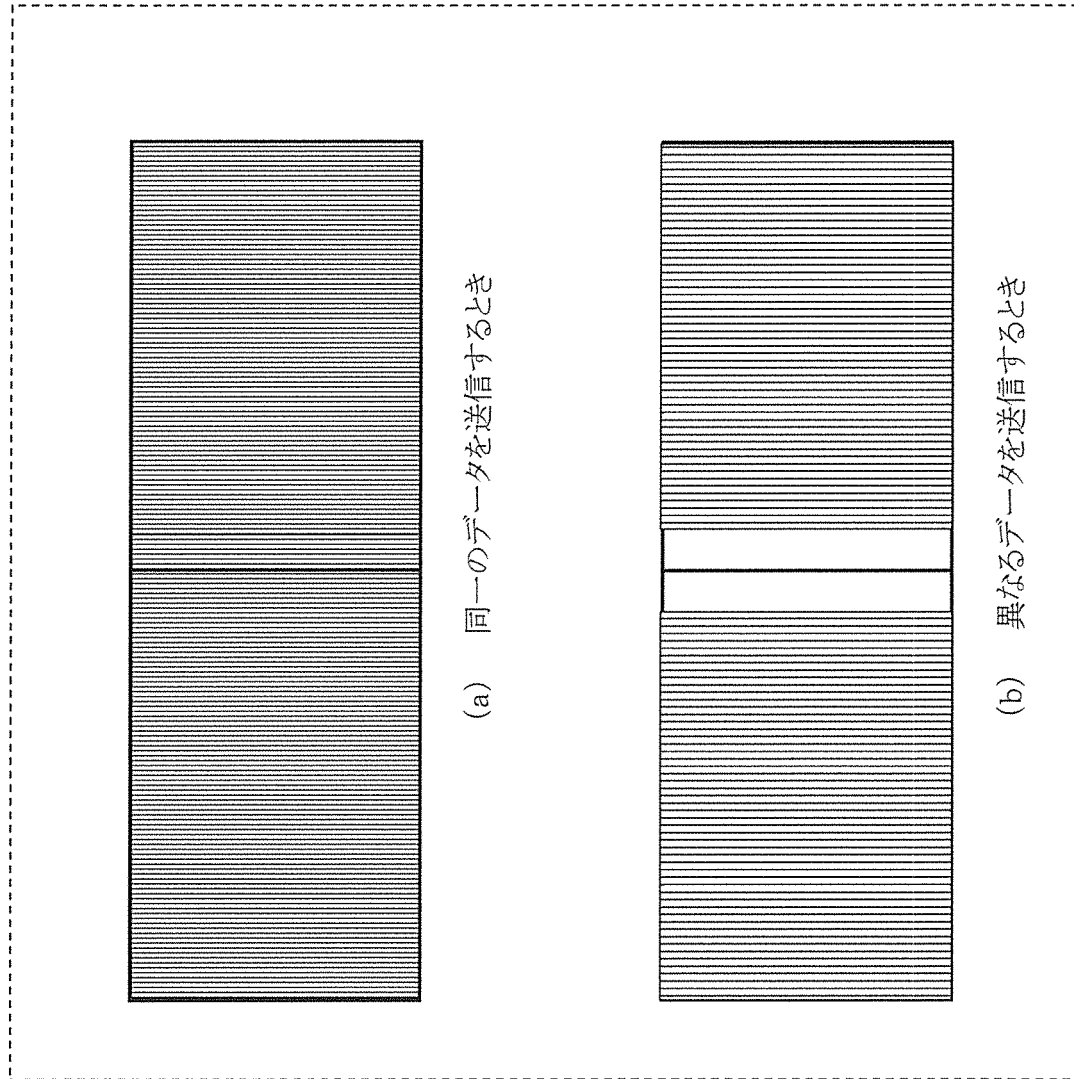
[図495]



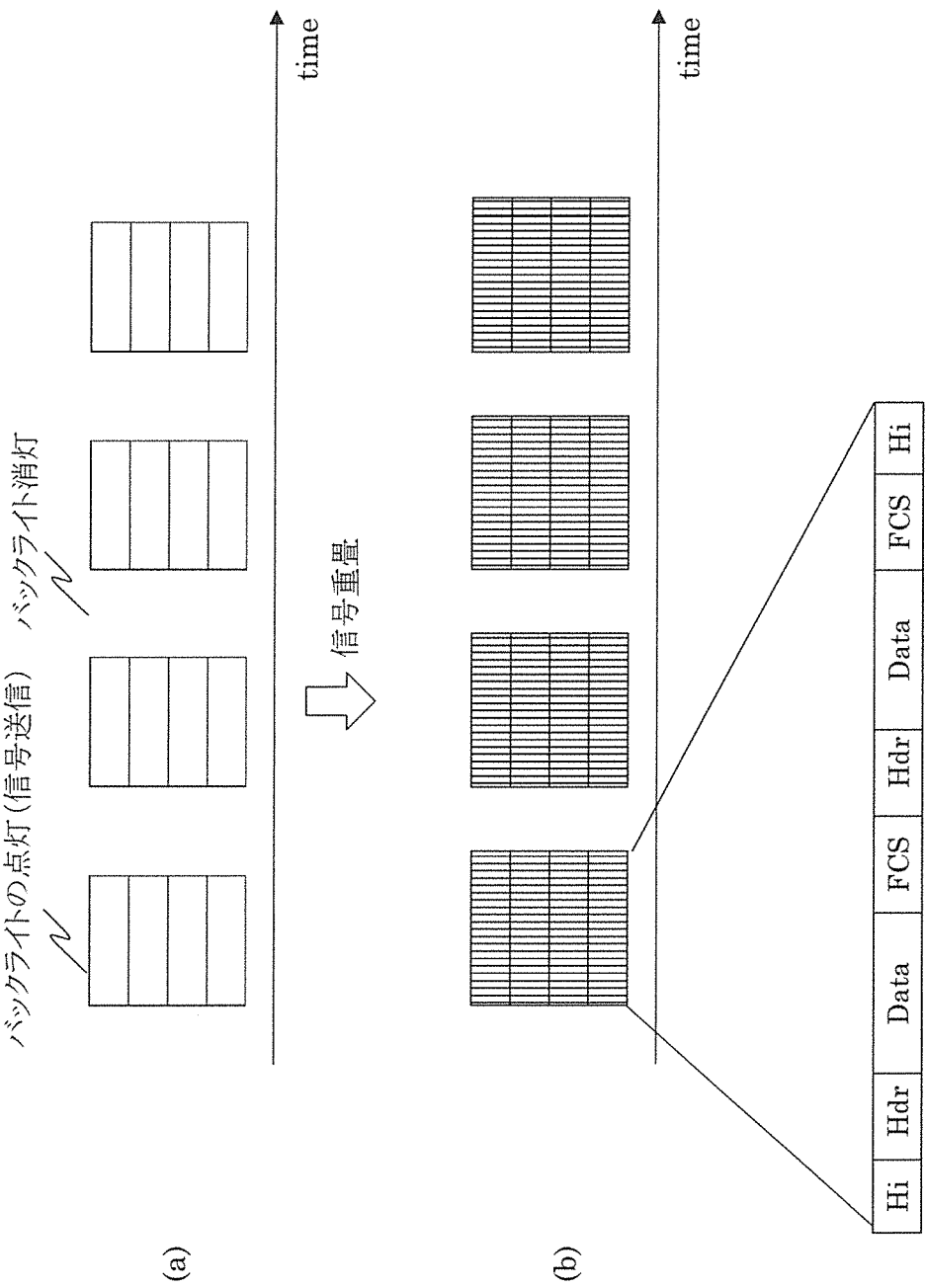
[図496]



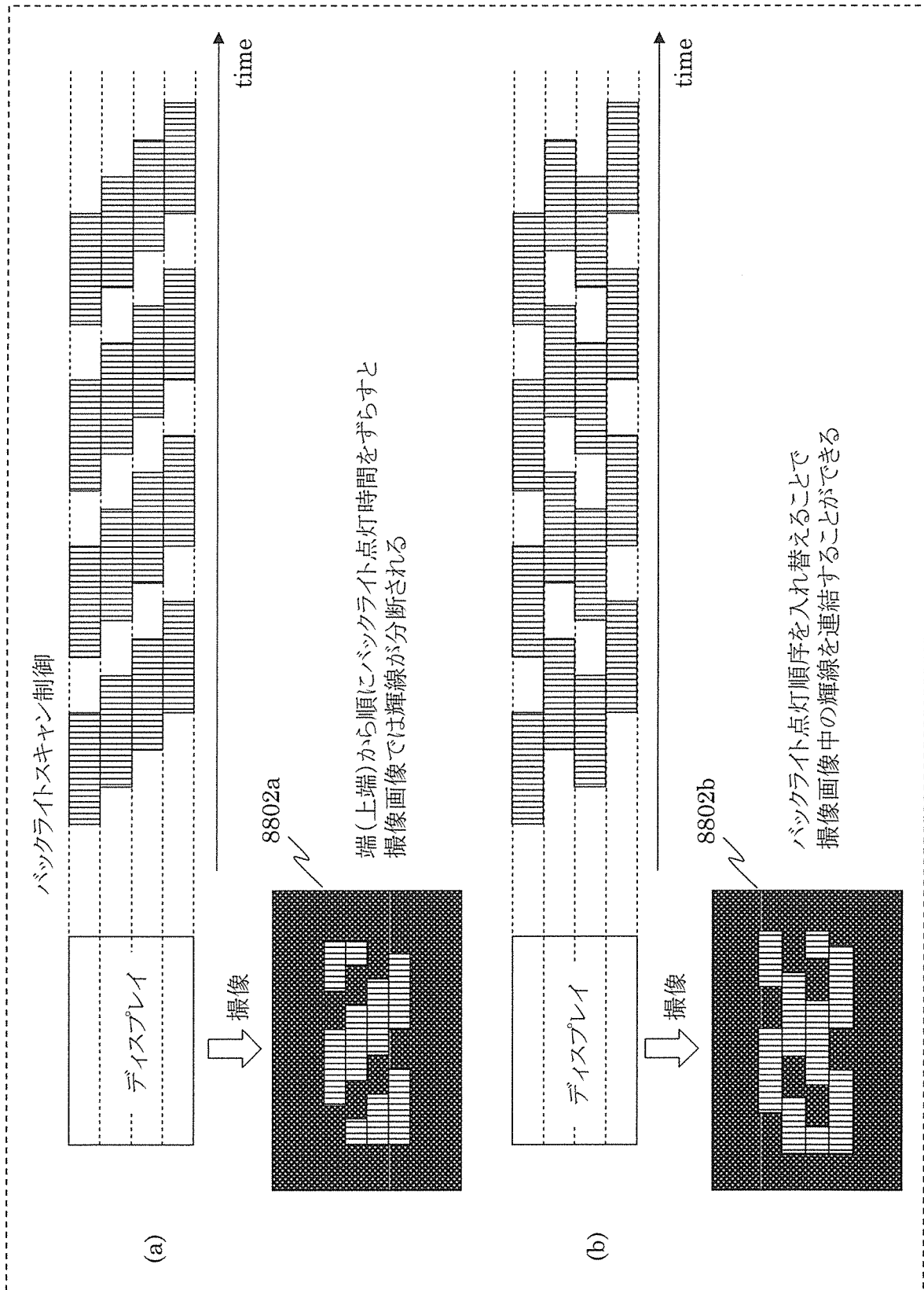
[図497]



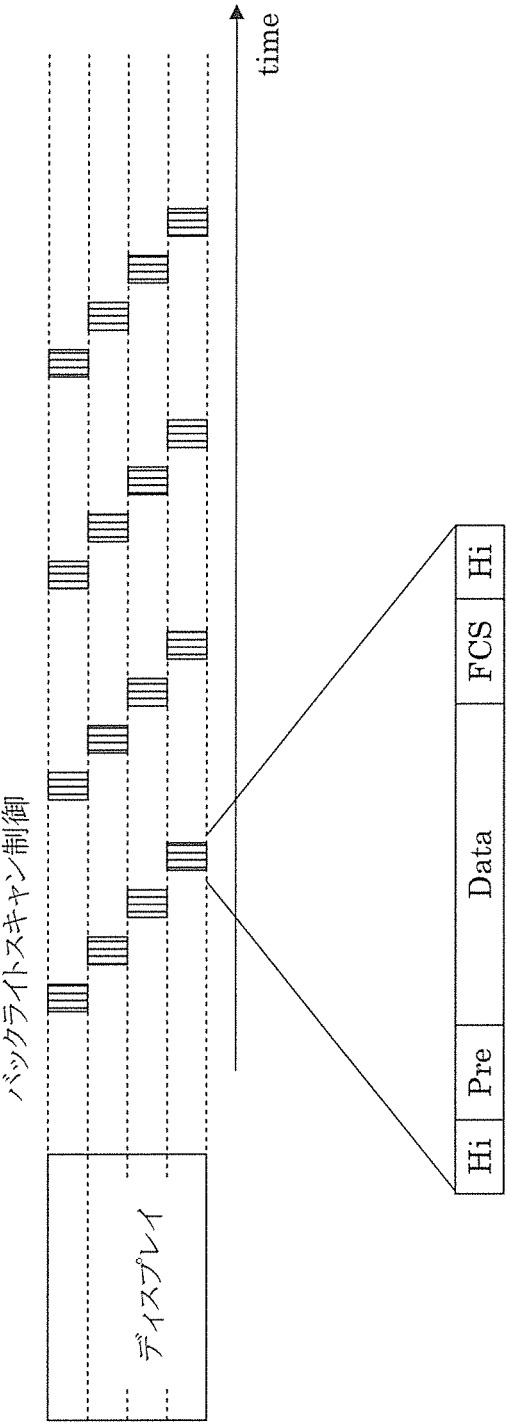
[図498]



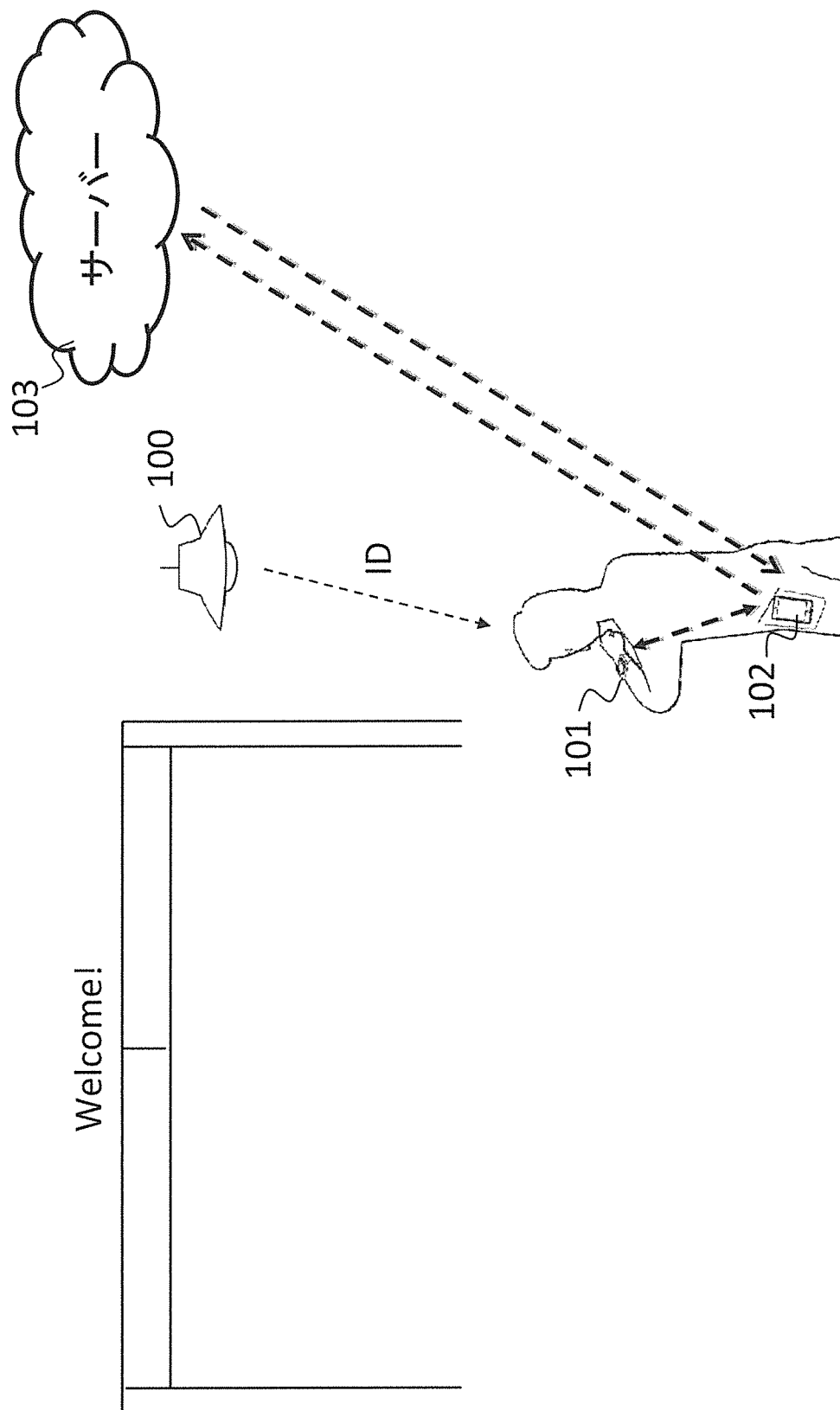
[図499]



[図500]



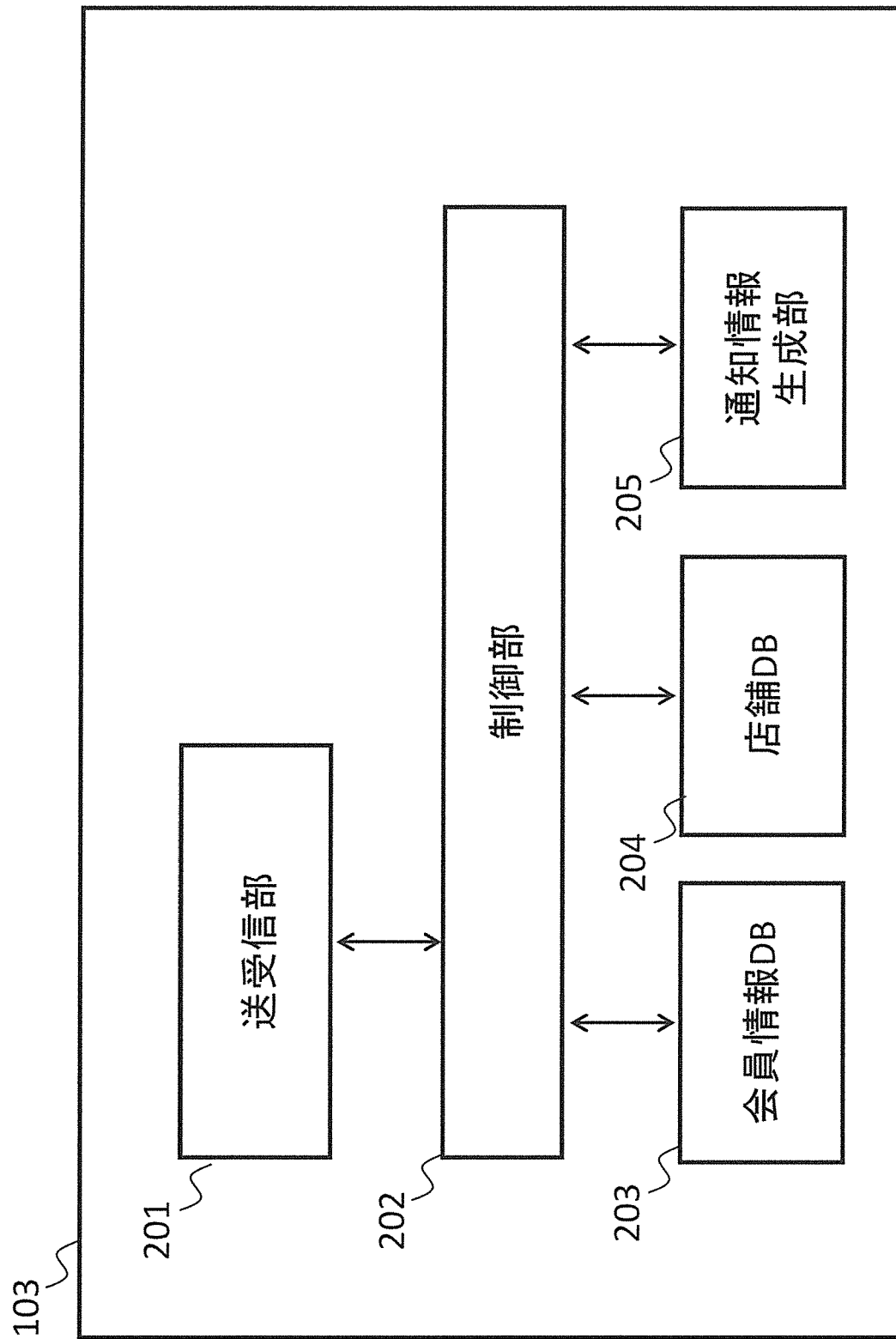
[図501]



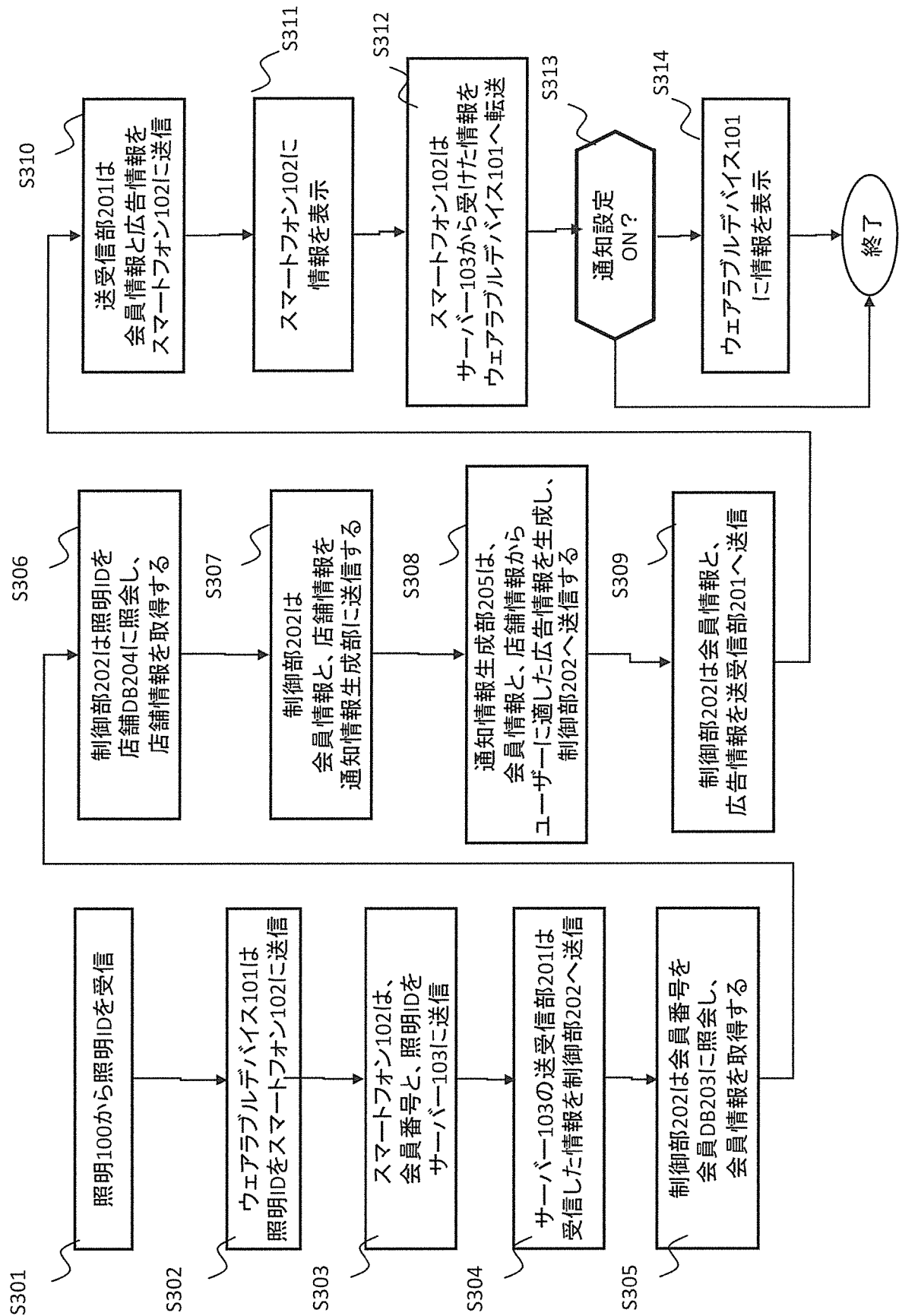
[図502]

会員番号	店舗ID	時刻	位置情報
ユーザーの趣向情報		ユーザーの生体情報	
ユーザーの検索履歴		ユーザーの行動履歴	

[図503]



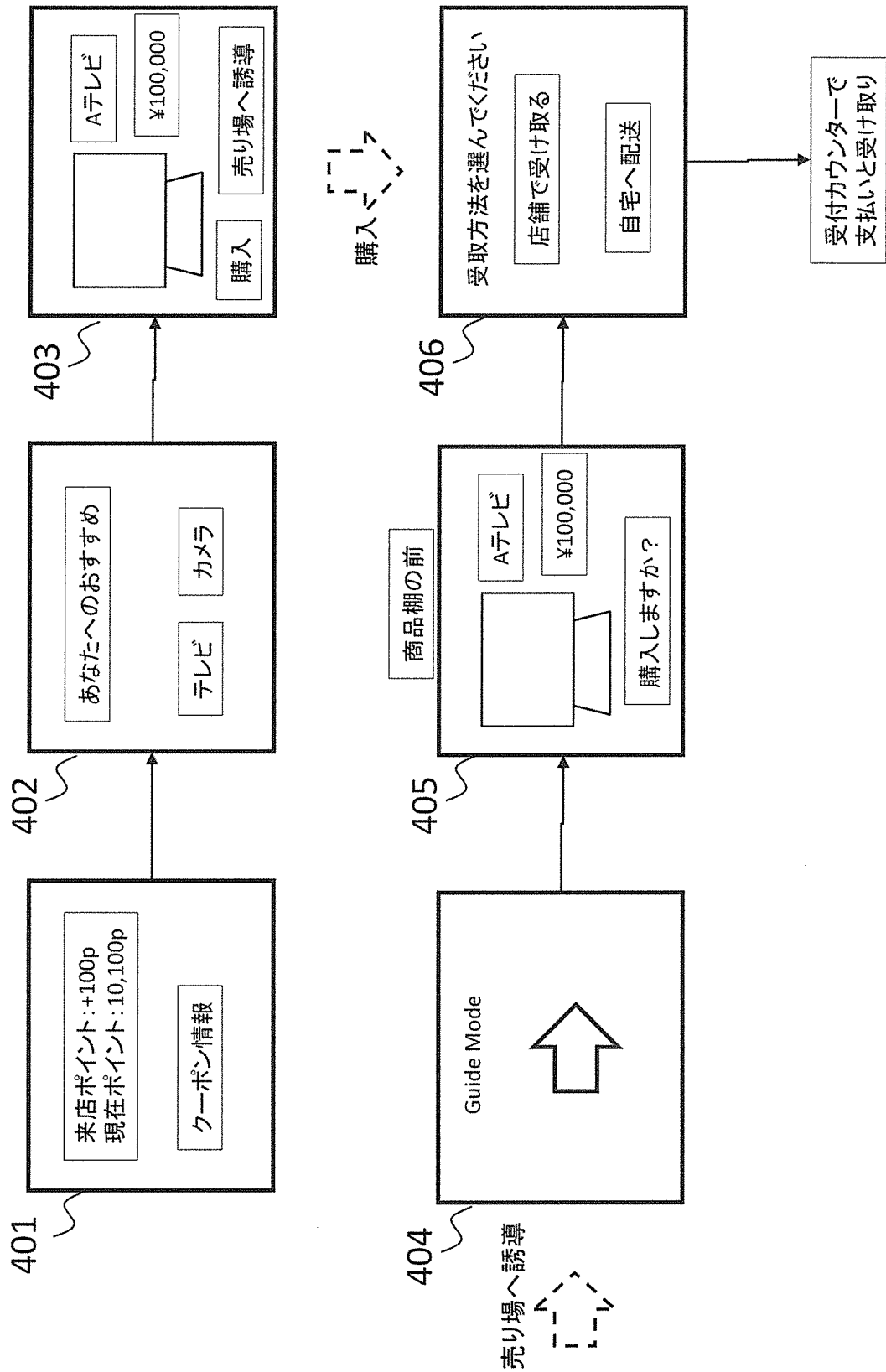
[図504]



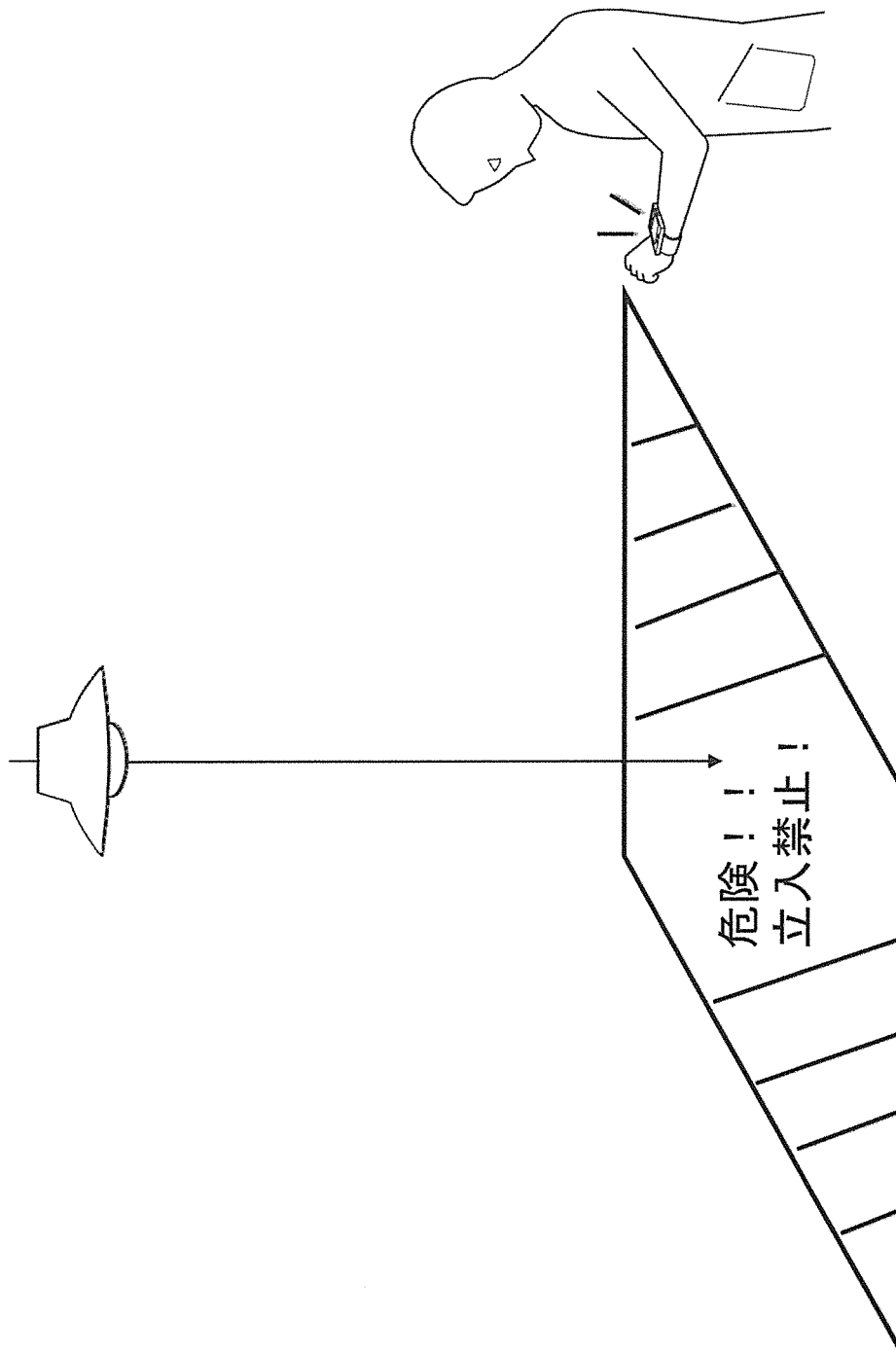
[図505]

会員番号	店舗ID	時刻	店舗地図DB
クーポン情報 店舗の商品情報	ユーザー会員情報 (ポイント・有効期限等)		

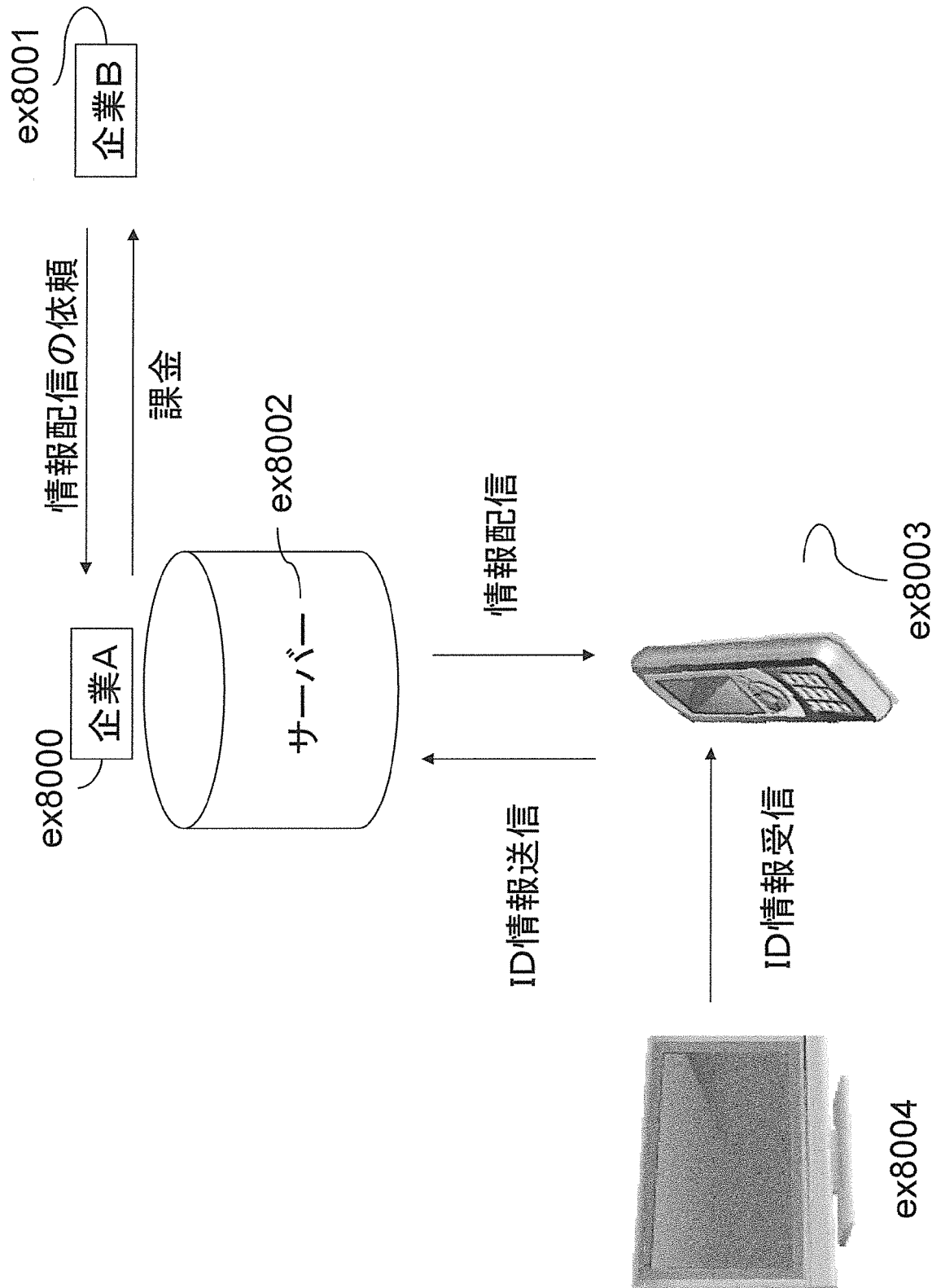
[図506]



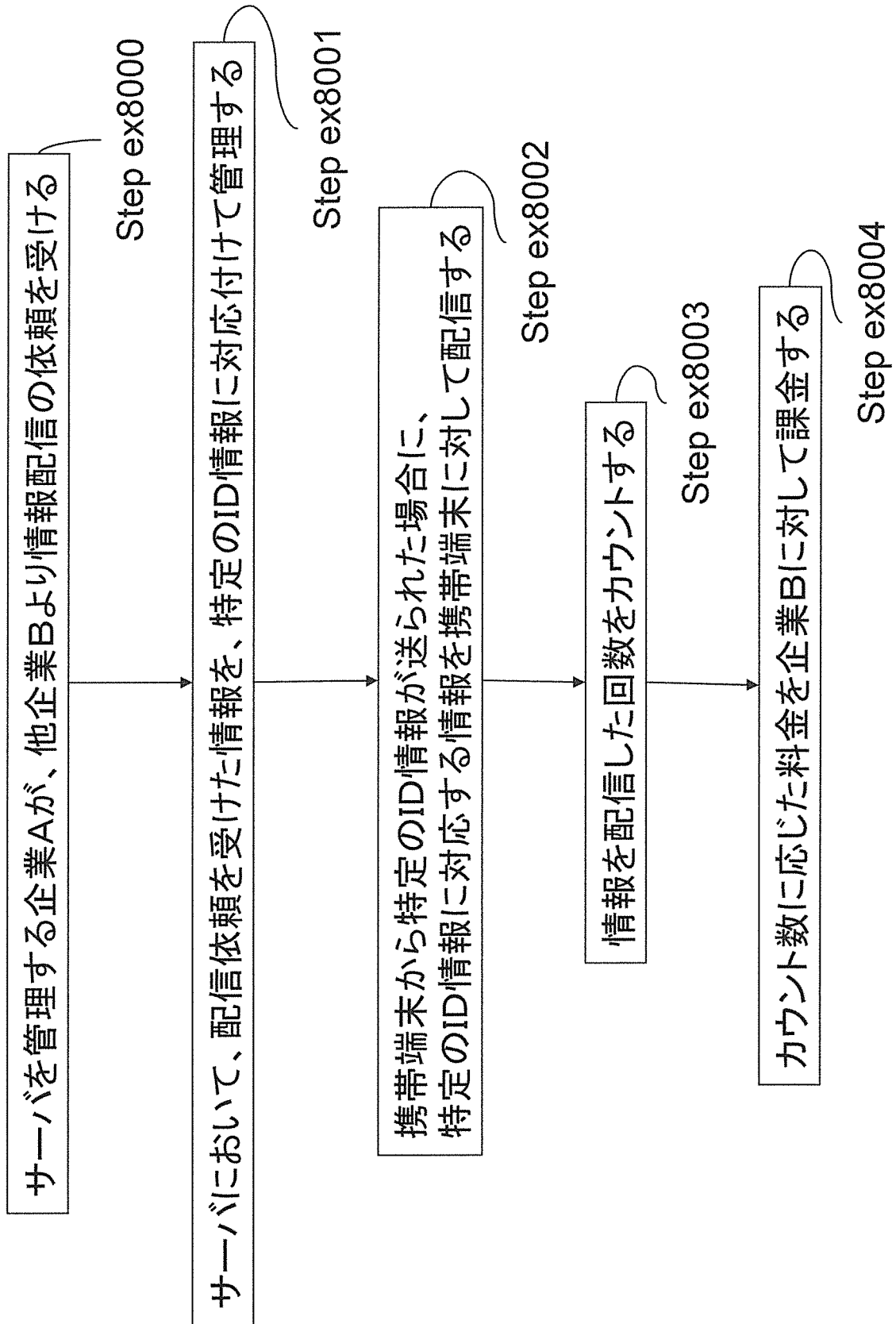
[図507]



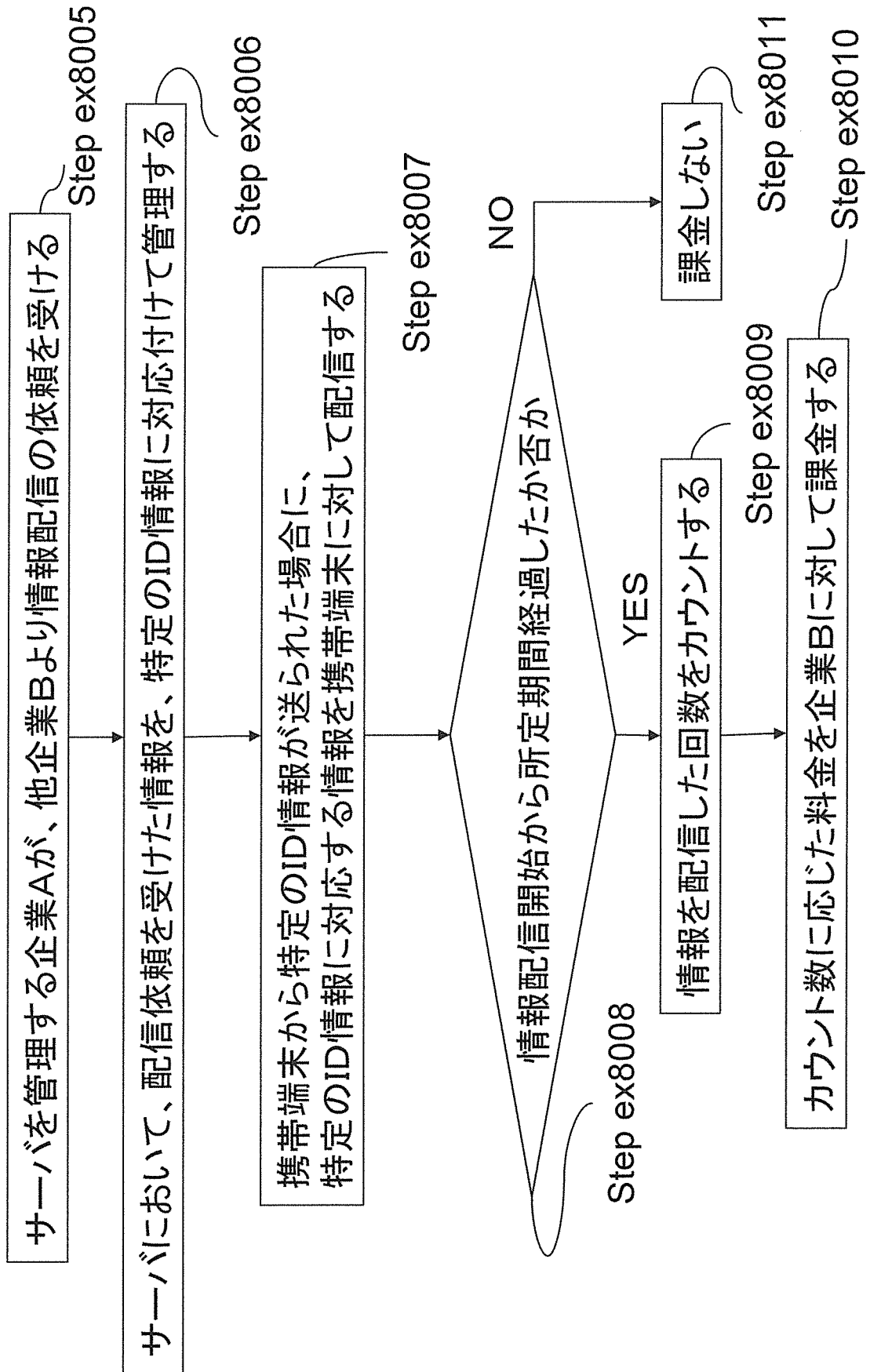
[図508]



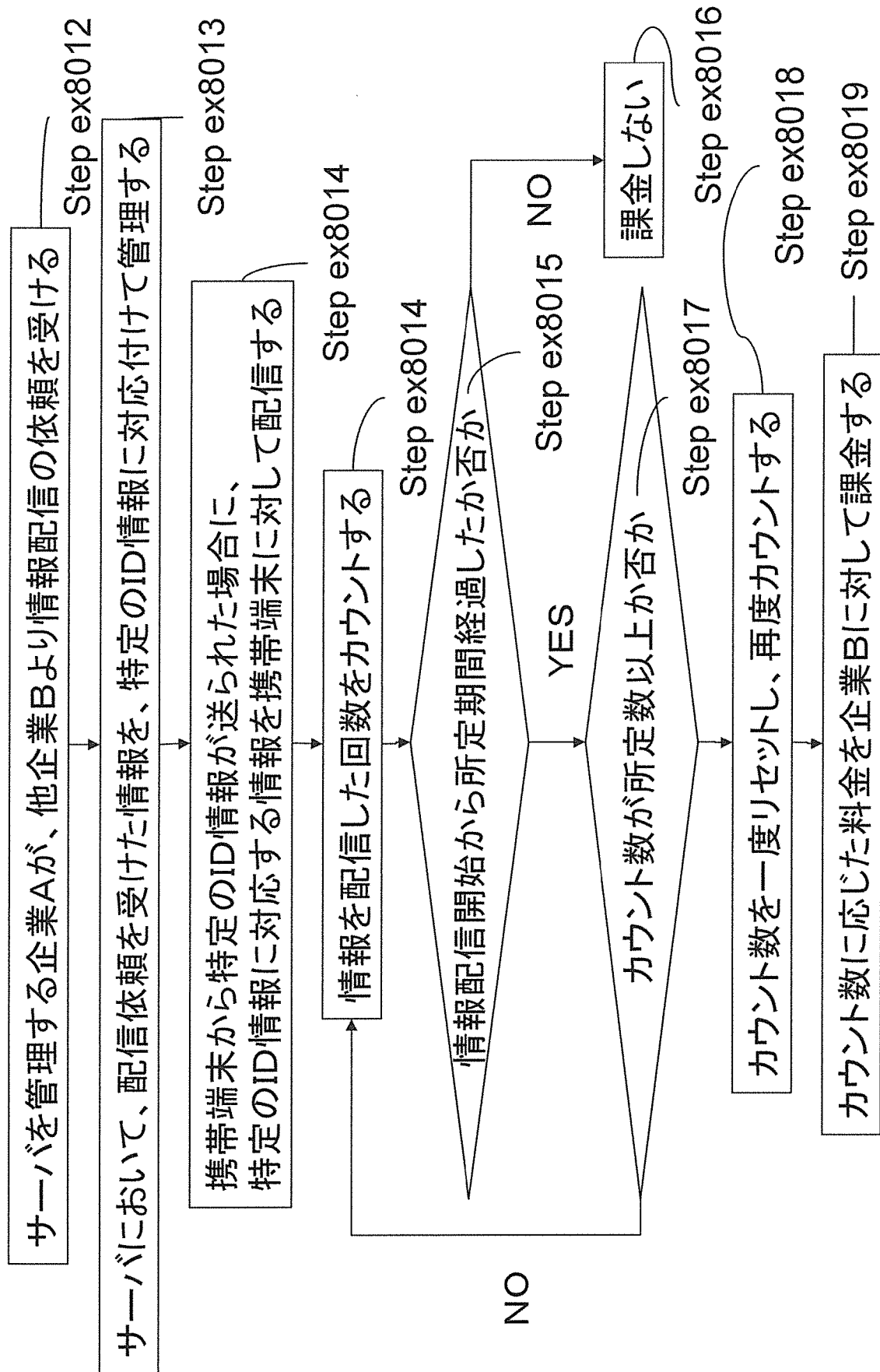
[図509]



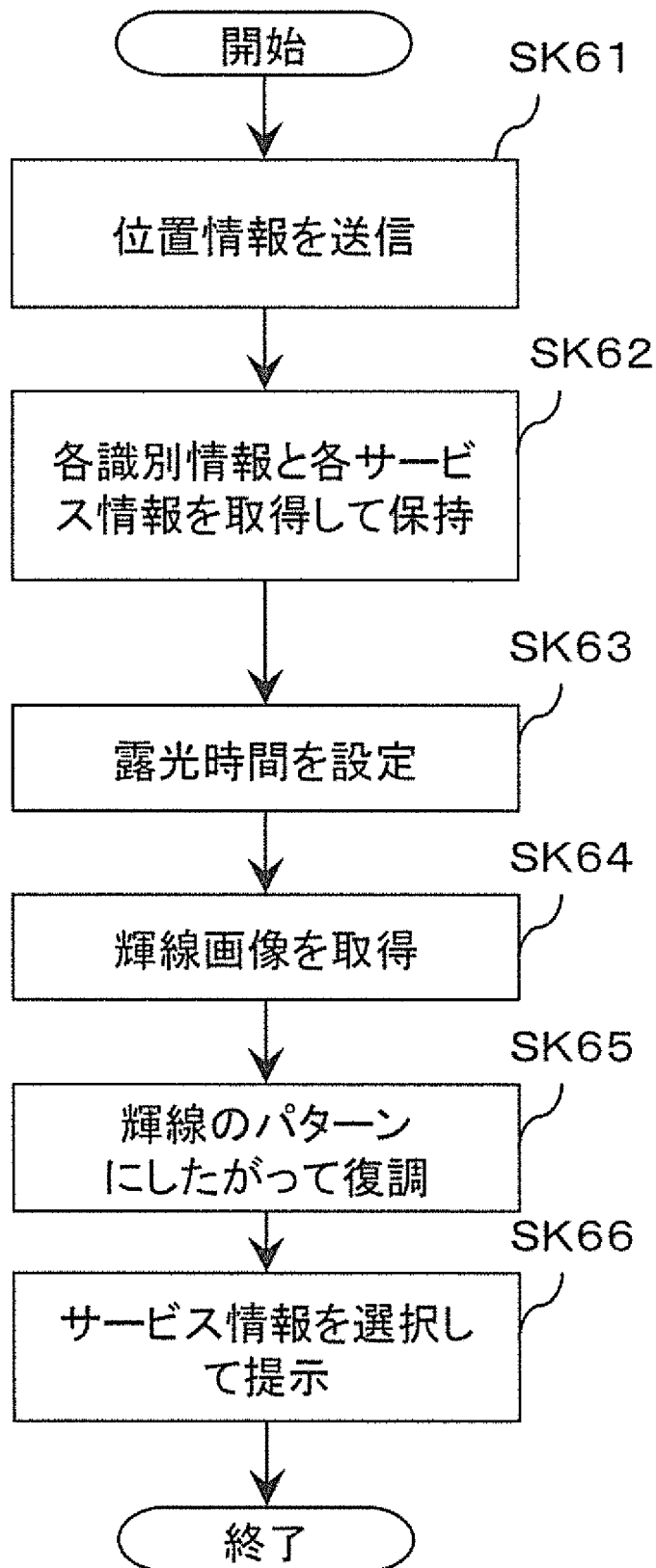
[図510]



[図511]



[図512A]



[図512B]

