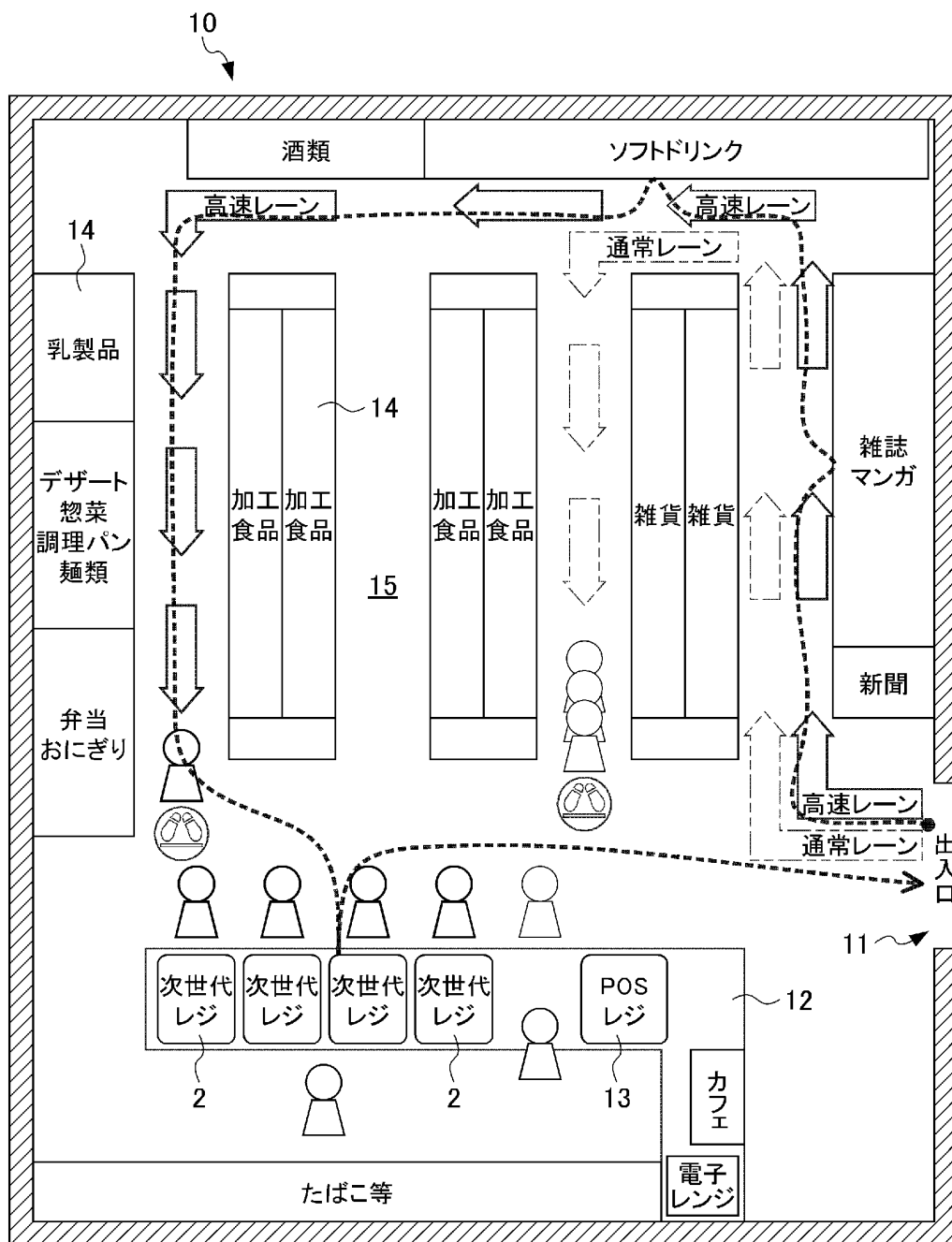


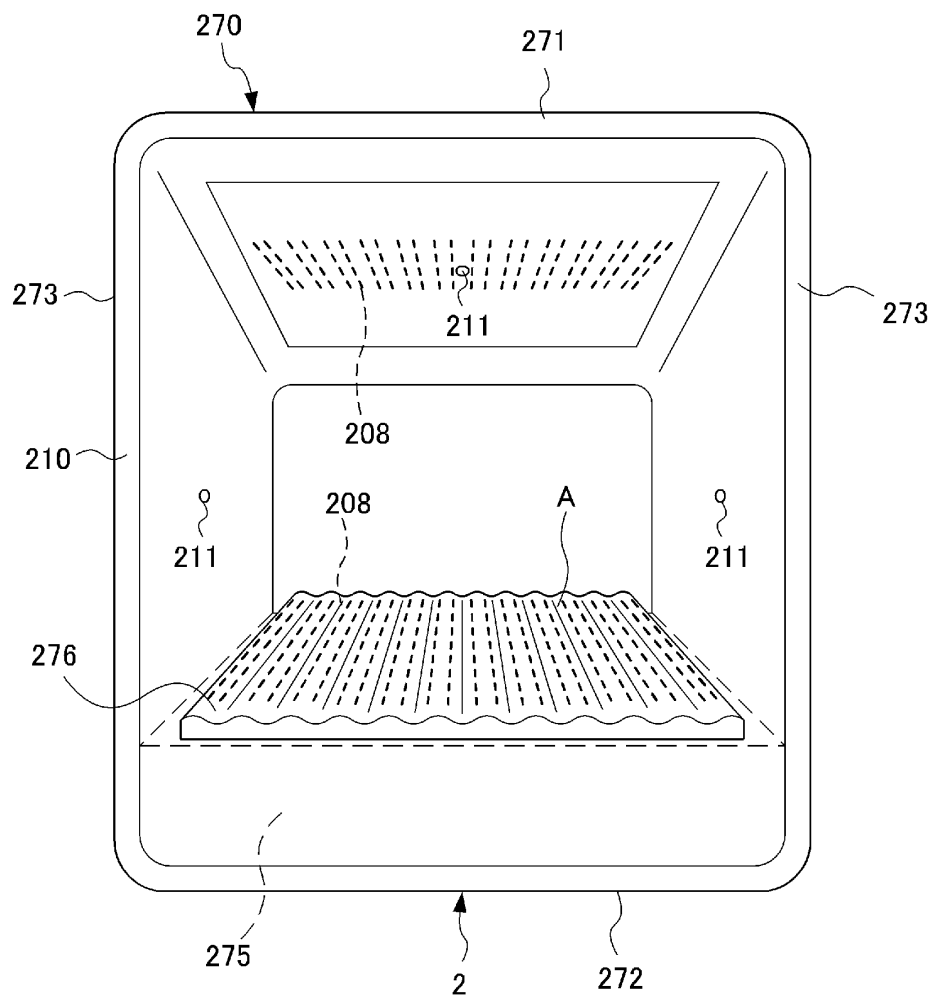
[図1]

	実施形態1	実施形態2	実施形態3	実施形態4
実施店舗	コンビニエンスストア	書店	スーパーマーケット	スーパーマーケット
精算場所	レジ端末	レジ端末	レジ台	精算ゲート
概要	レジ端末上の商品の自動精算	- レジ端末上の書籍の自動精算 - 重ね置き対応	カゴ・カートの商品の自動精算	手持ち商品、カゴ・カート商品、マイバッグ、レジ袋内商品等の自動精算
詳細	レジ端末に設置されたカメラで、レジ端末に置かれた商品で、レジ端末を認識	- 棚で認識した書籍をレジ端末に置かれるまで追跡 - レジ端末設置カメラで、レジ端末に重ねて置かれた商品 - を認識。	- カゴ領域検出機能により、カゴ類の追跡、カゴ類内商品を認識 - レジ台に置かれたカゴ類内商品を自動精算	移動物体領域に含まれる全商品を、レジ台に置かず、ゲートにて自動精算。
参照図面	図2～11	図3、図5、図6 図12～21	図5、図15 図22～30	図5、図24 図31～37

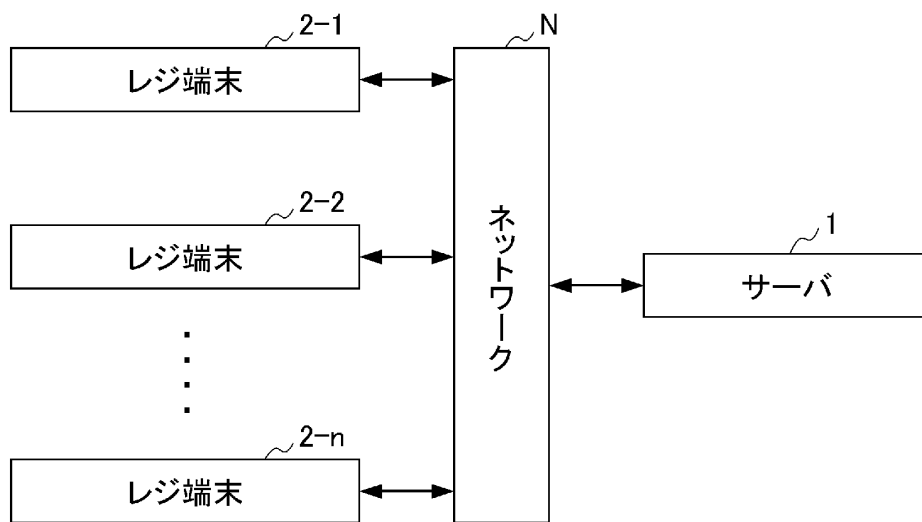
[図2]



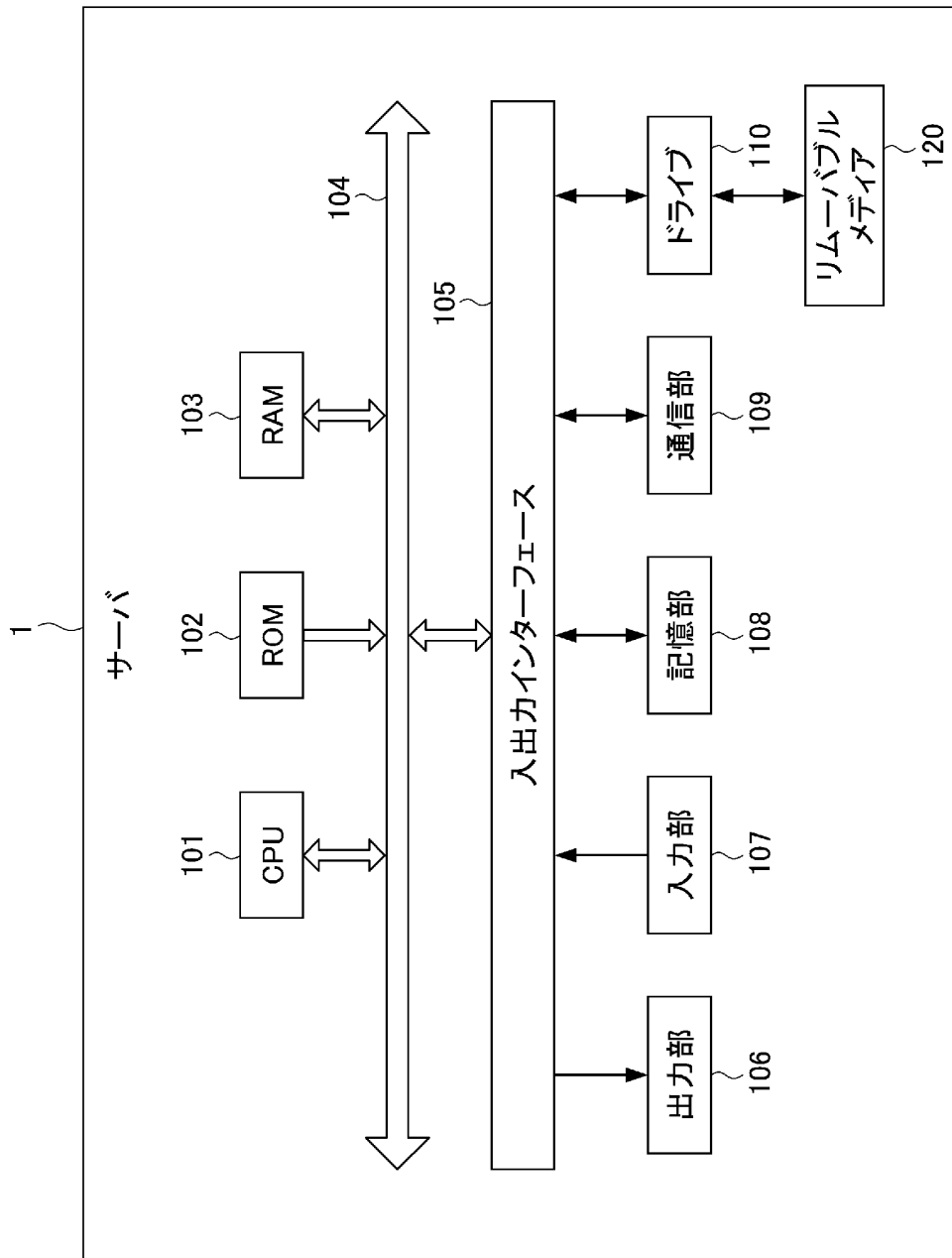
[図3]



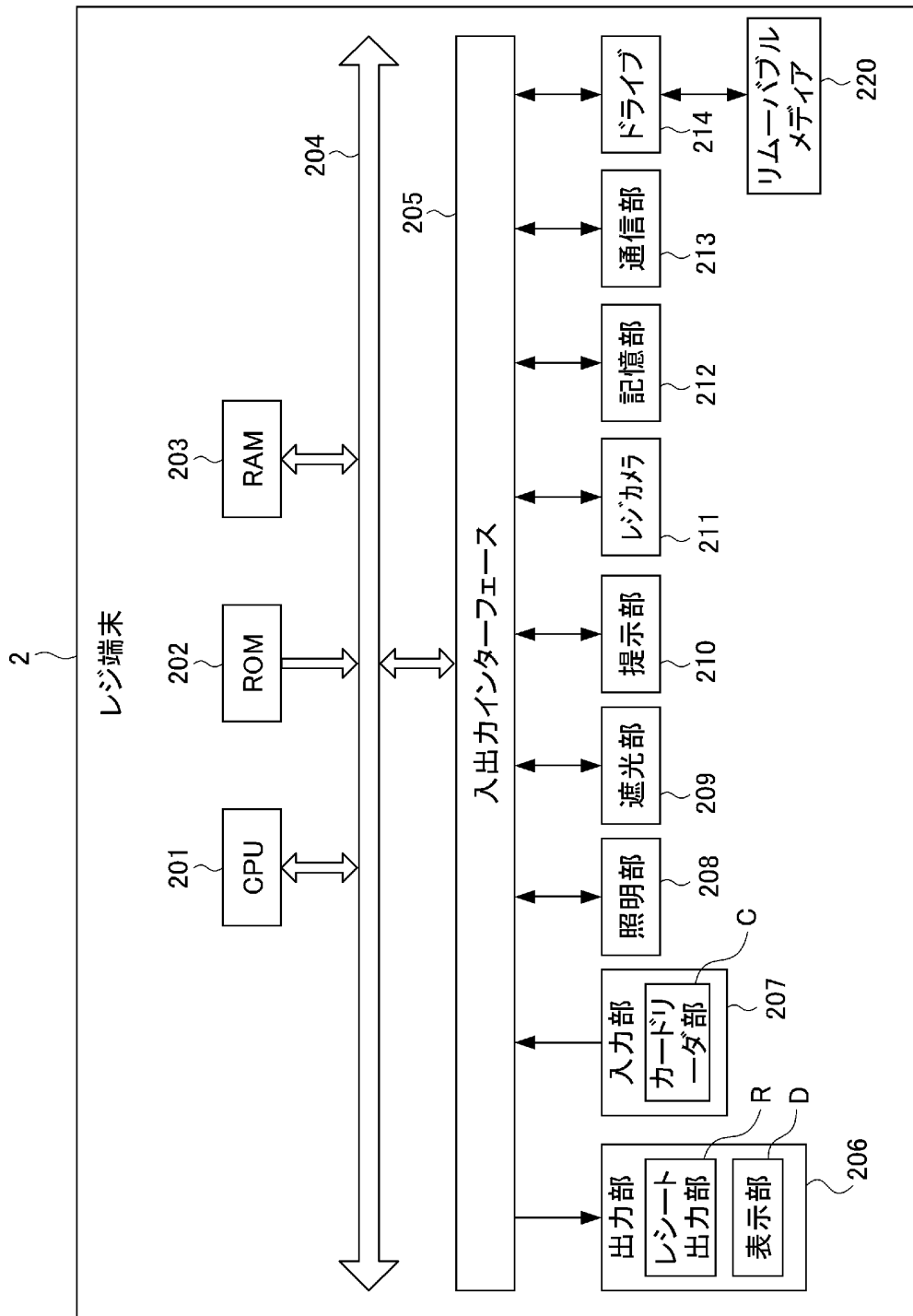
[図4]



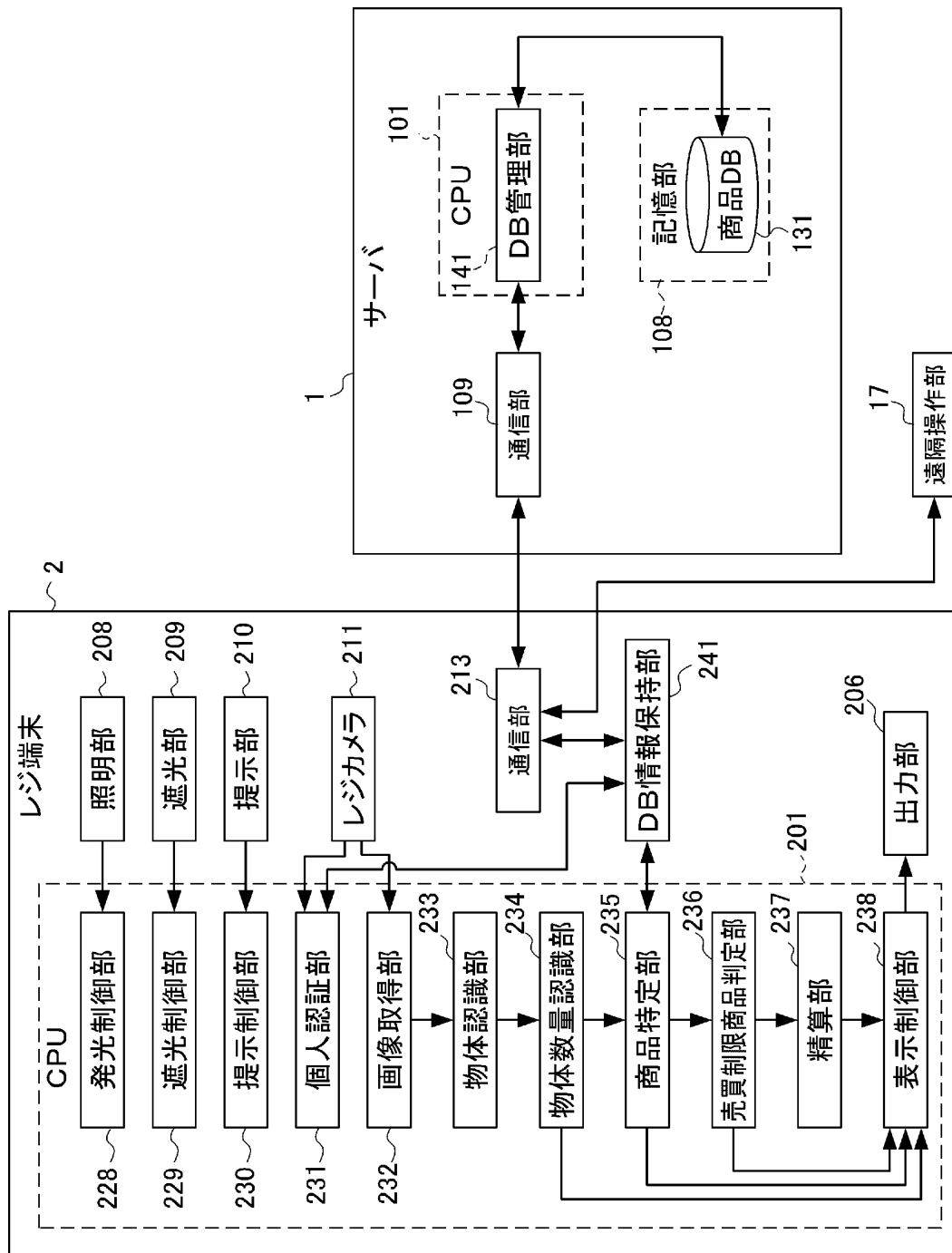
【図5】



【図6】

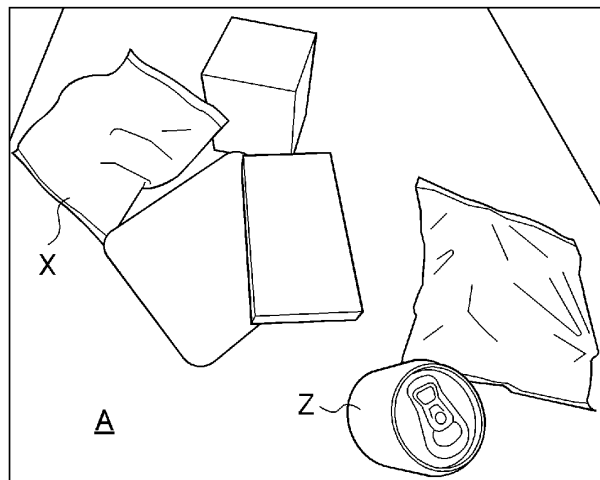


[図7]

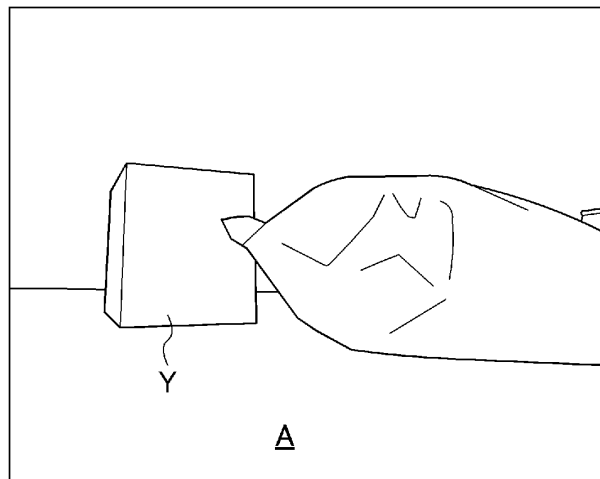


[図8]

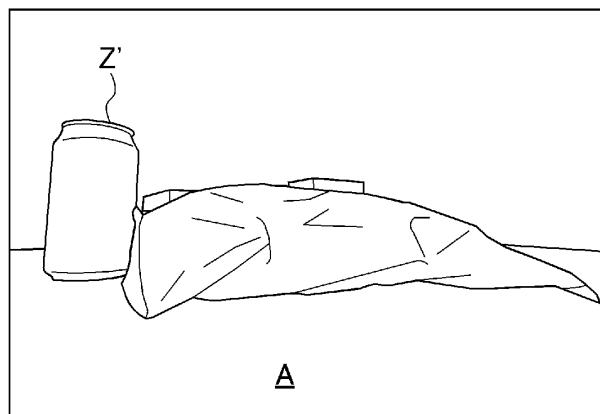
(a)



(b)



(c)

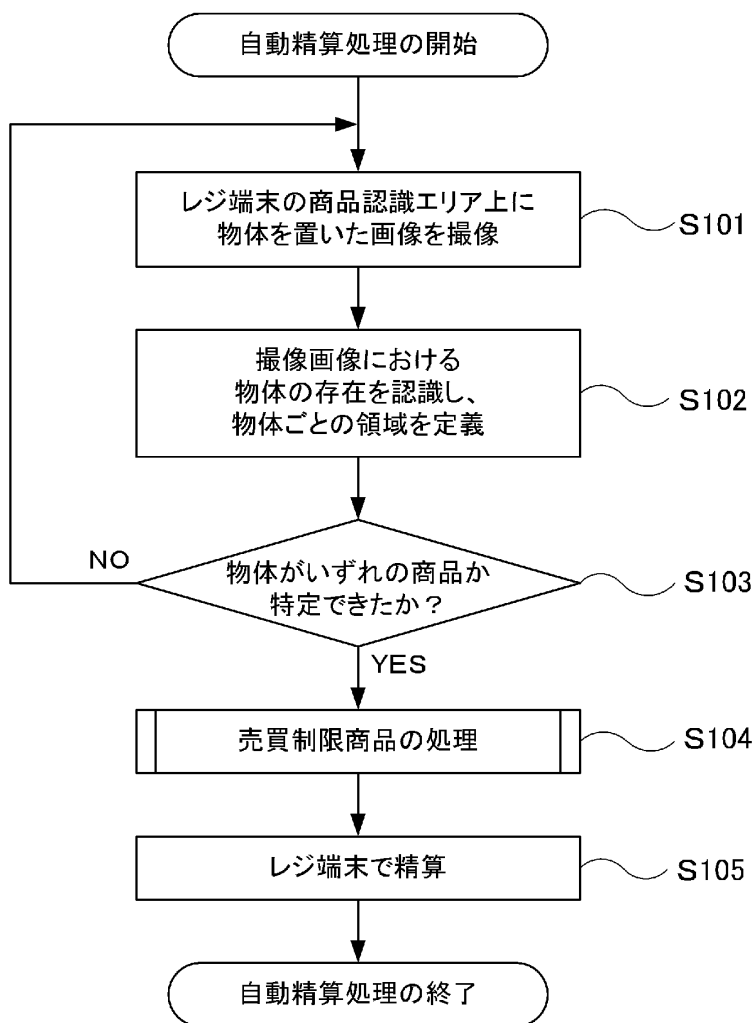


[図9]

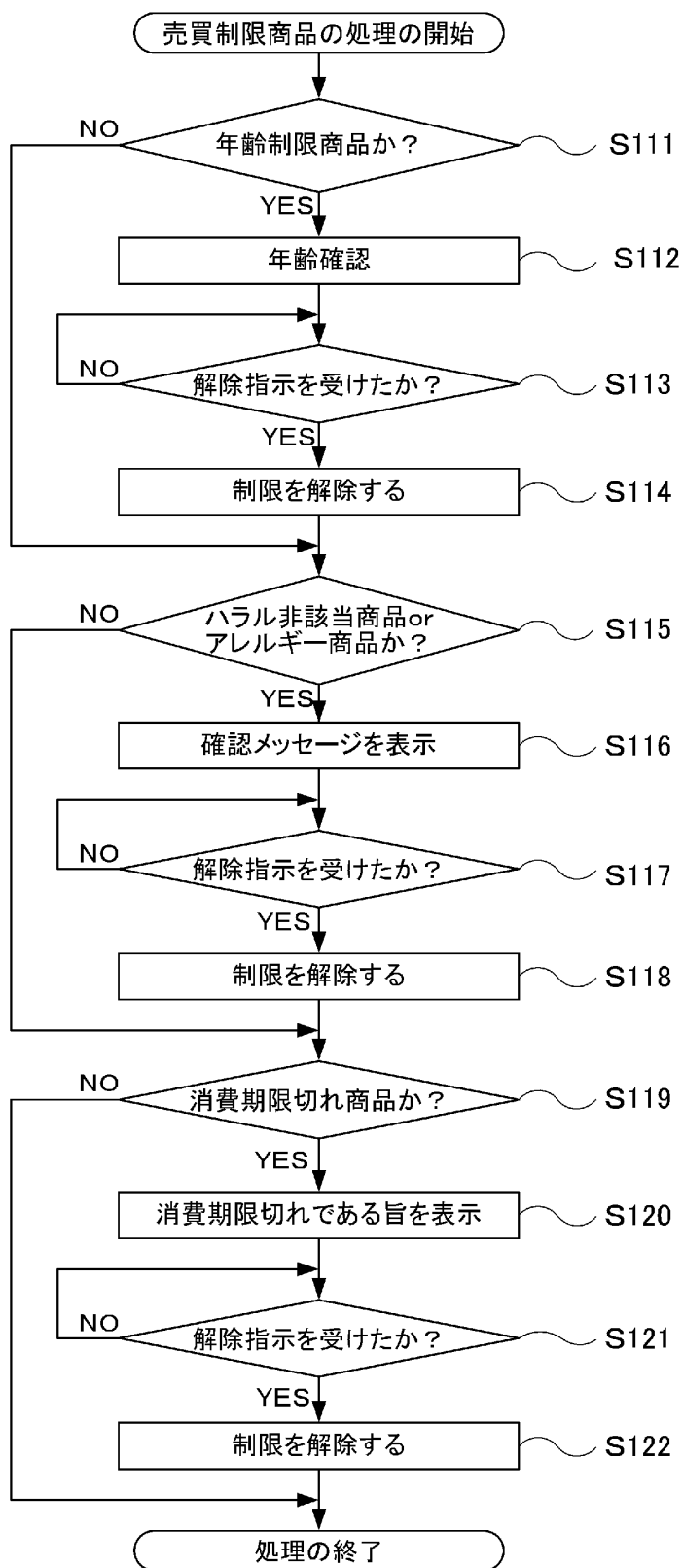
商品	レジ台カメラ					認識結果 (論理和)
	1	2	3	4	5	
X	1	0	0	1	1	1
Y	0	1	0	1	1	1
Z	0	1	1	0	1	1
Z'	1	0	1	0	0	1

※ZとZ'は同一商品

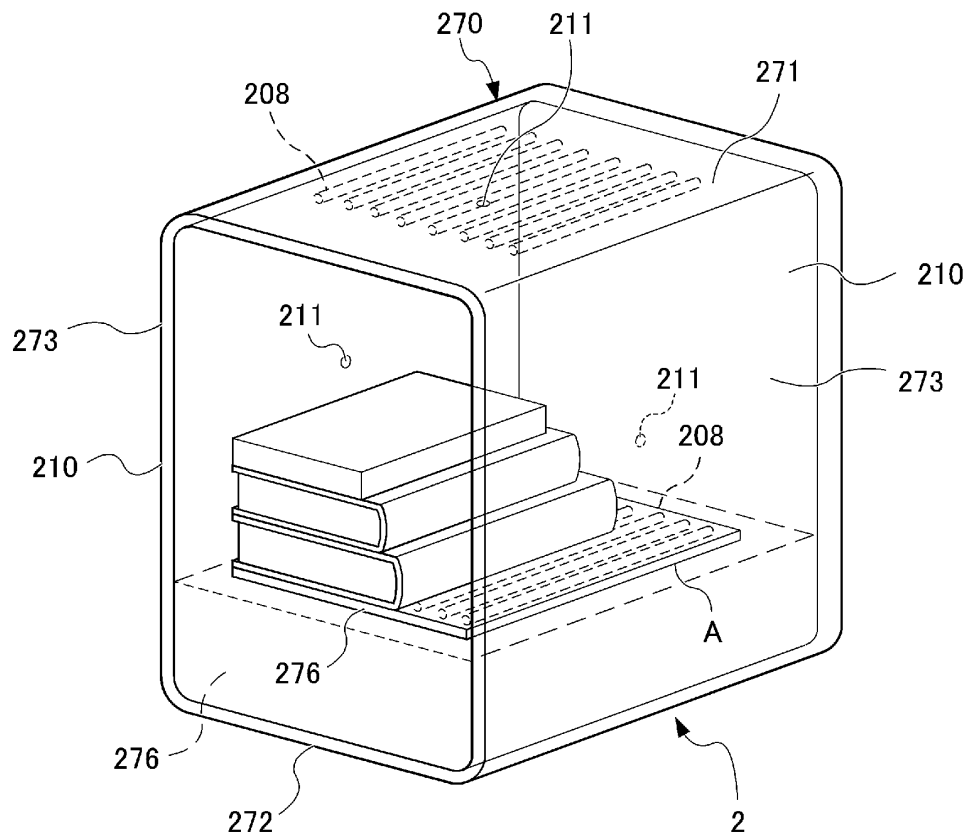
[図10]



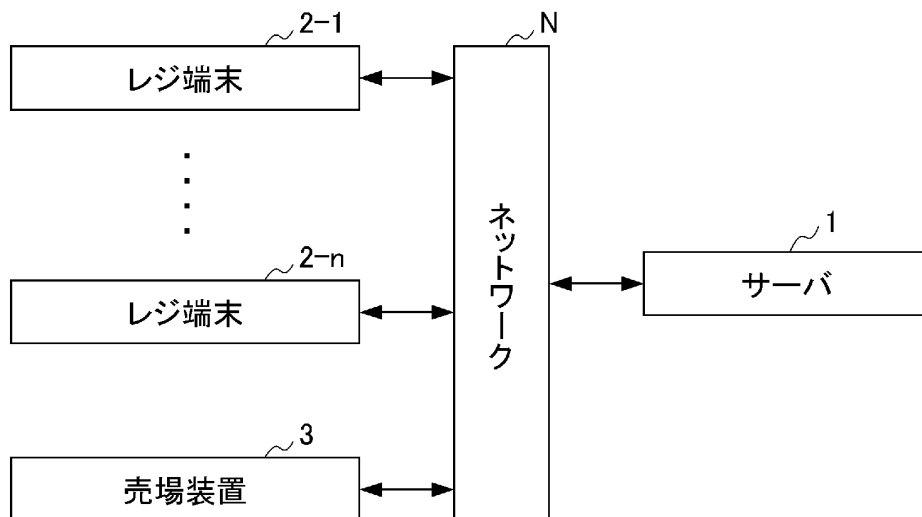
[図11]



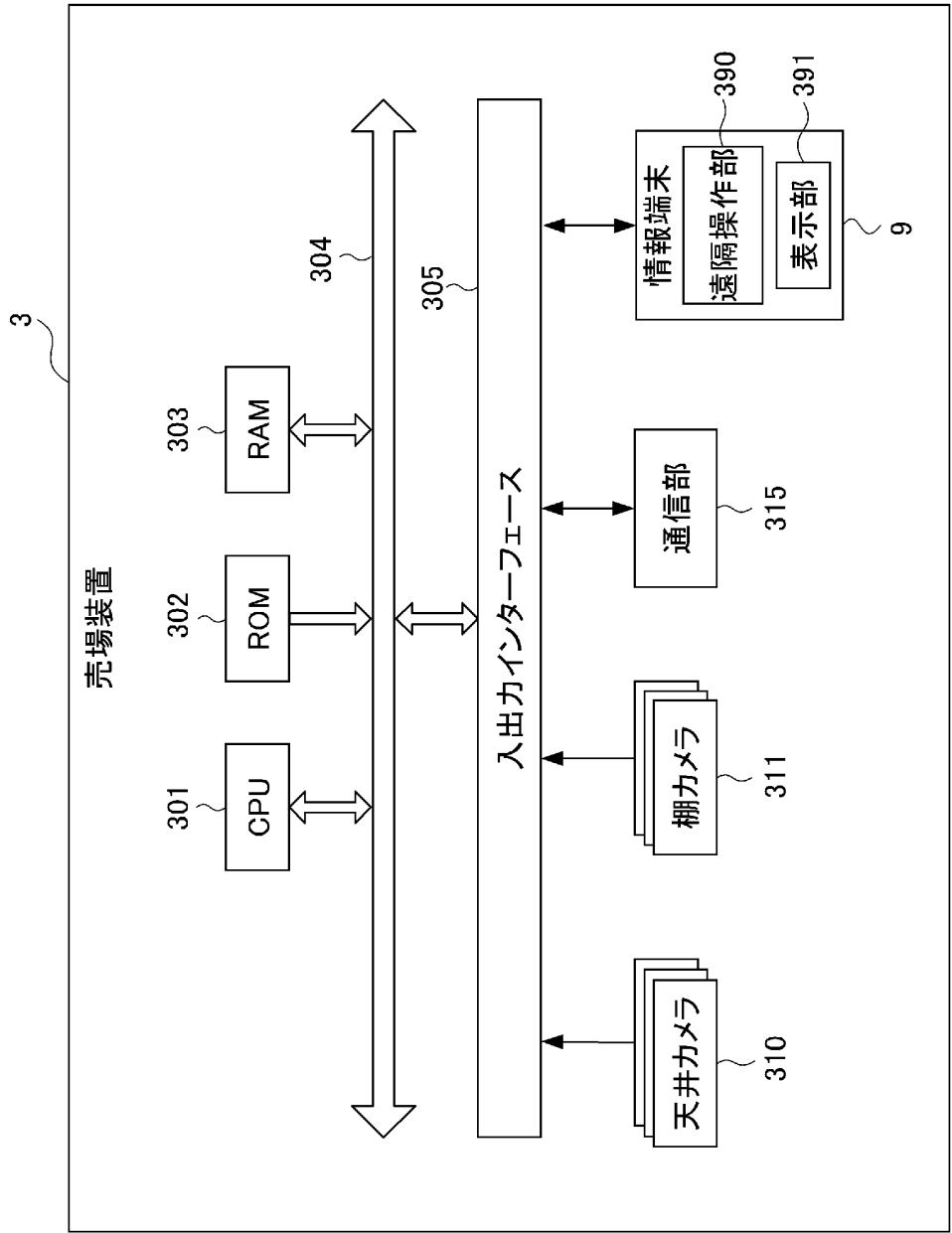
[図13]



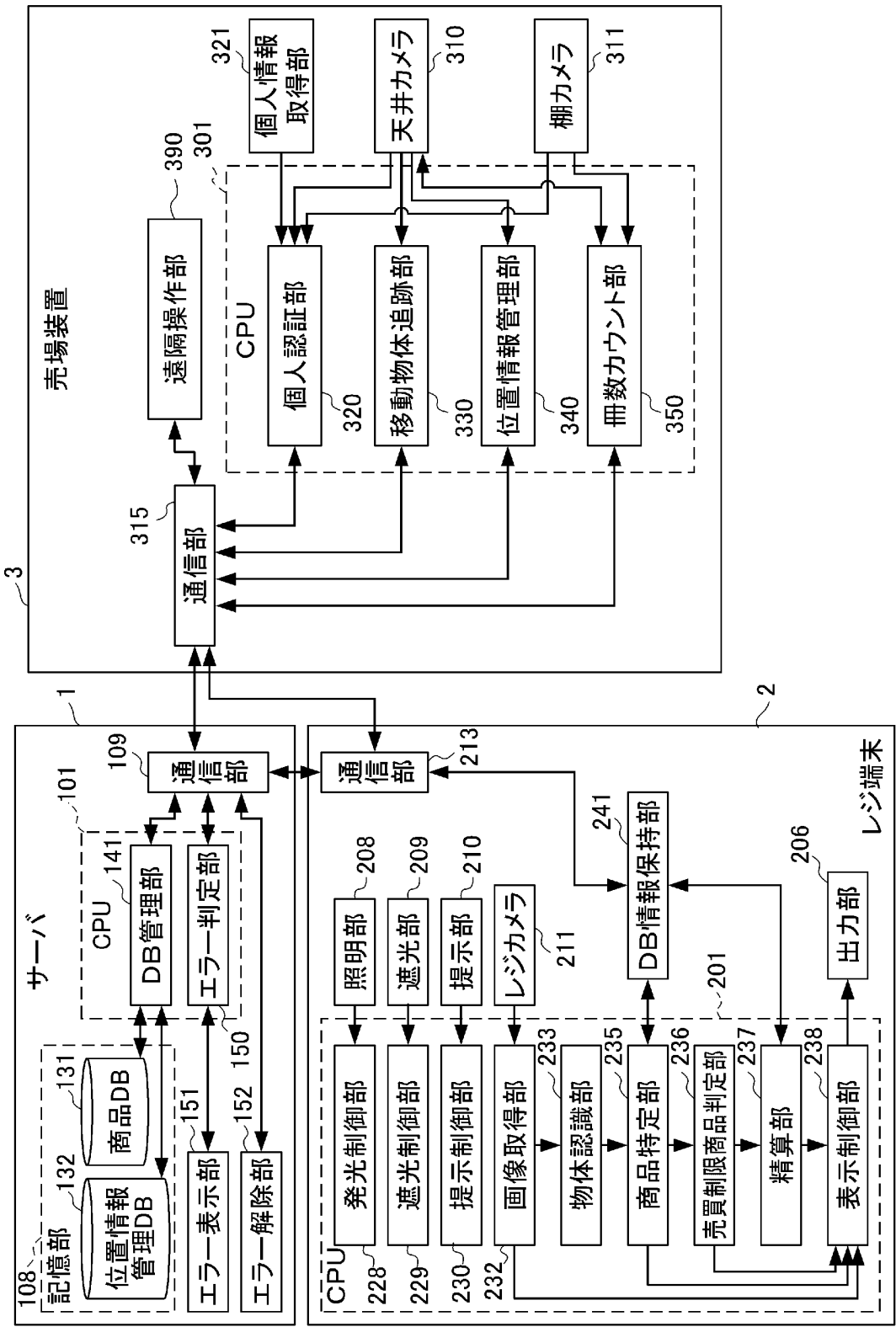
[図14]



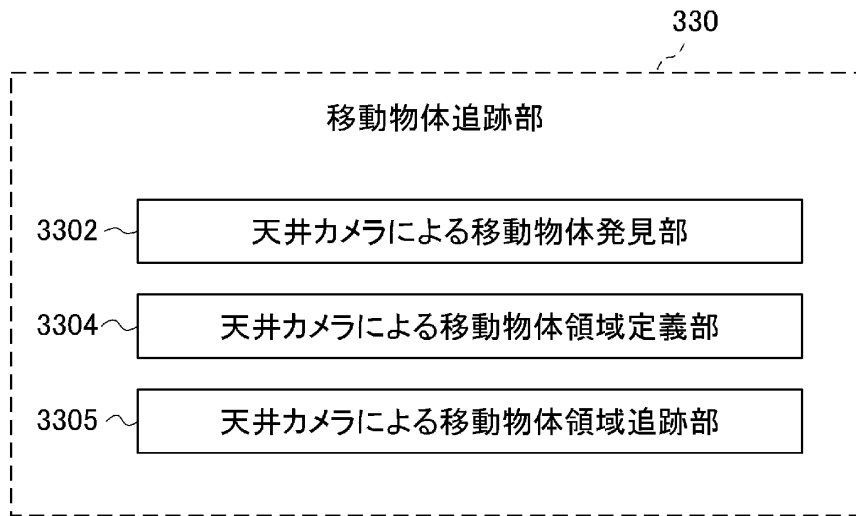
[図15]



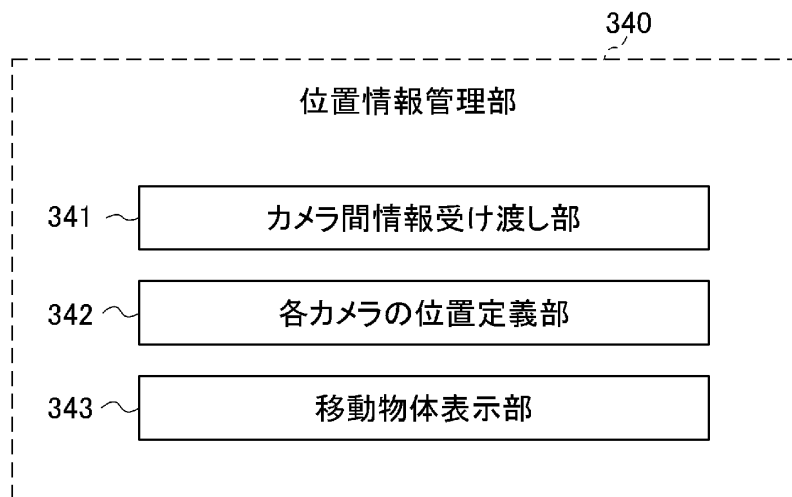
[図16]



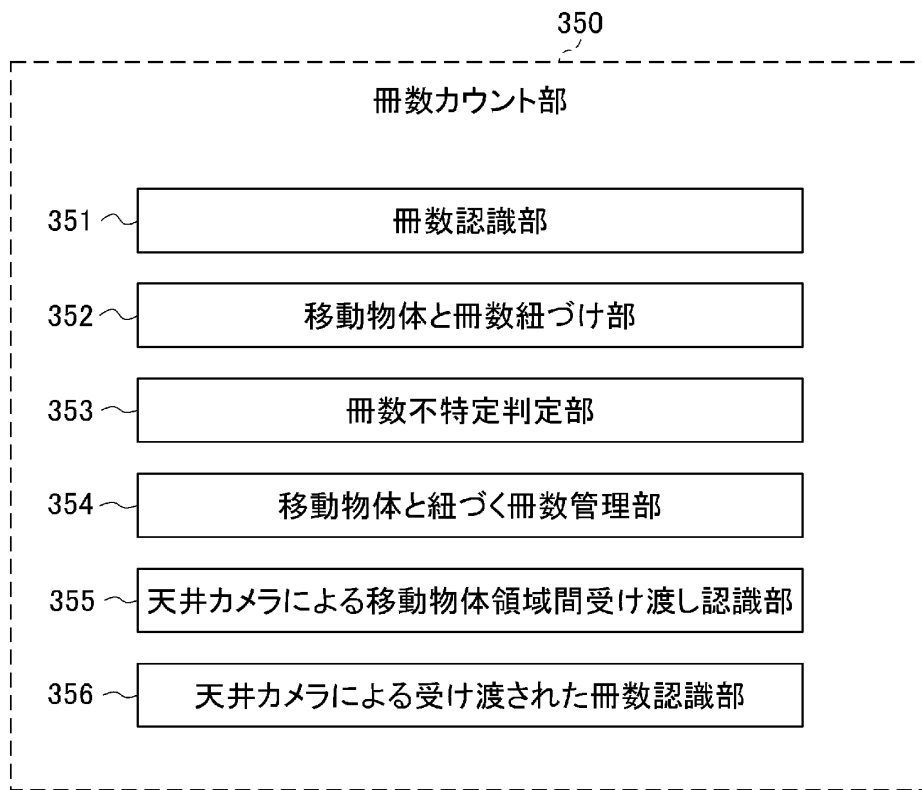
[図17]



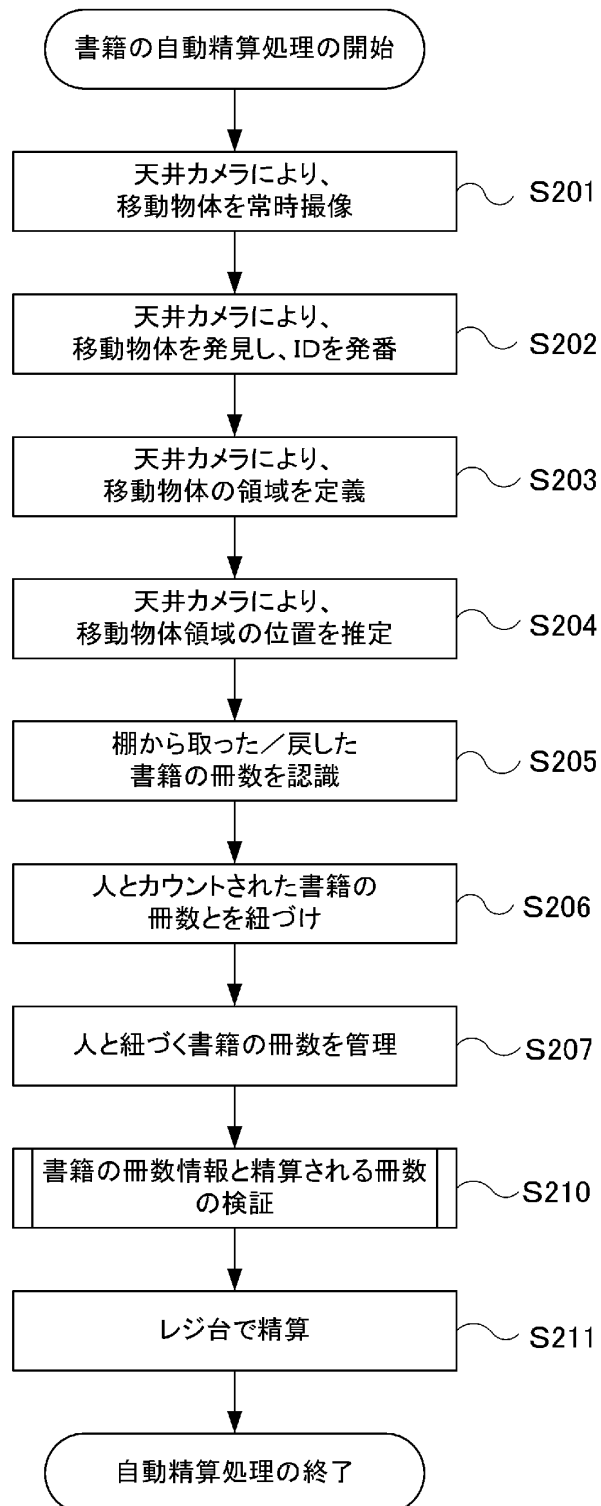
[図18]



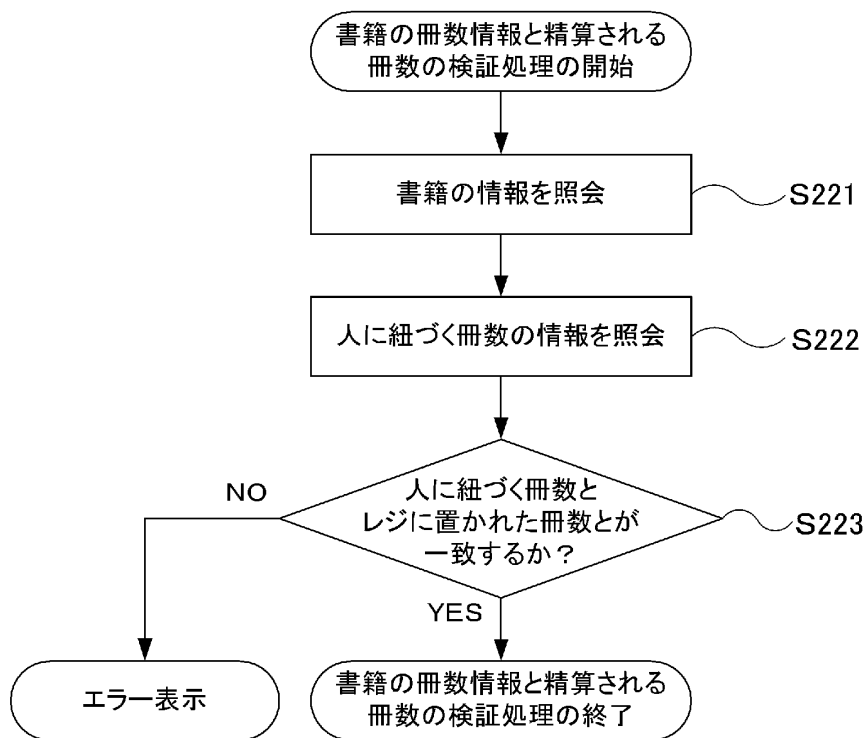
[図19]



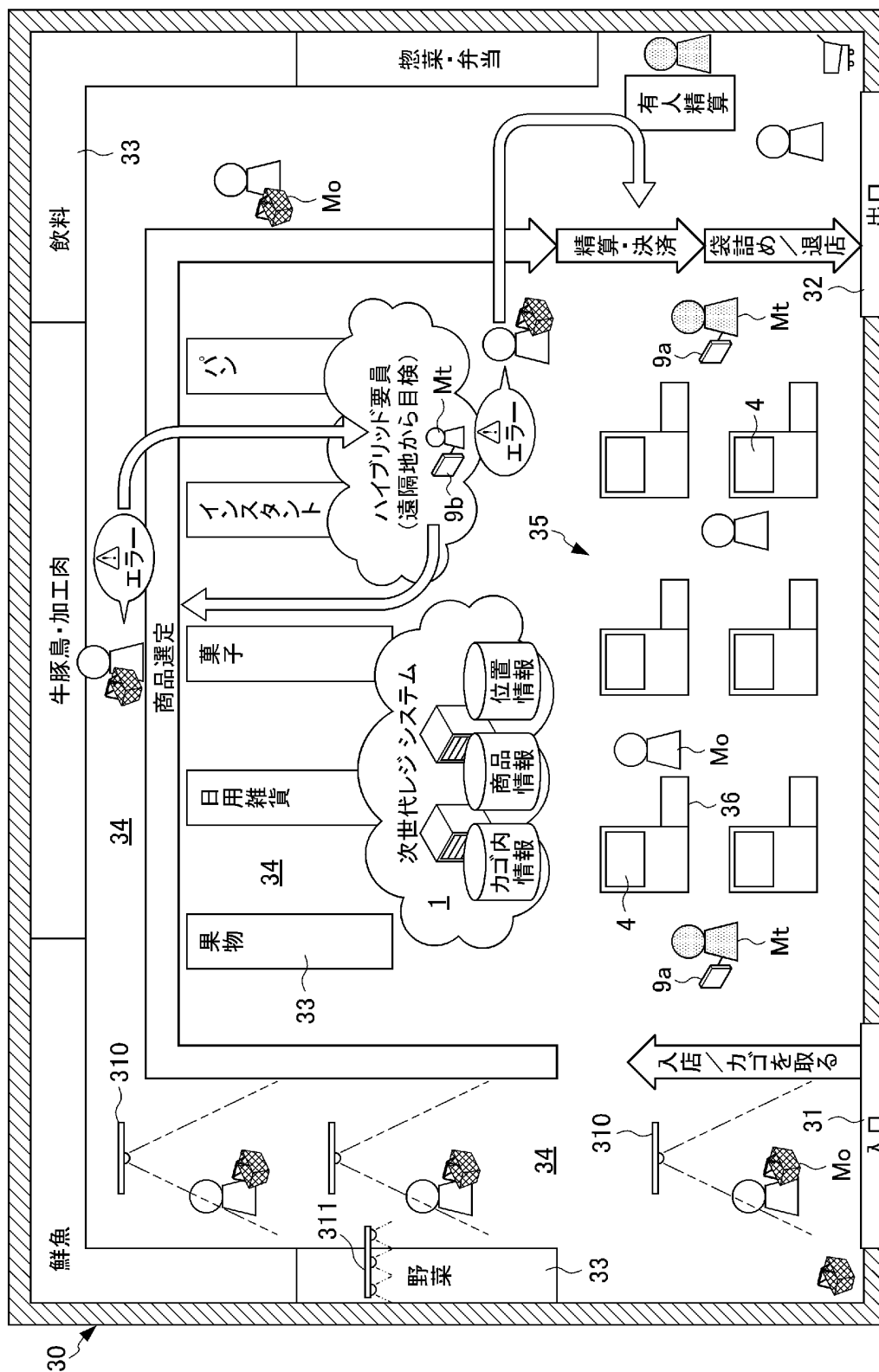
[図20]



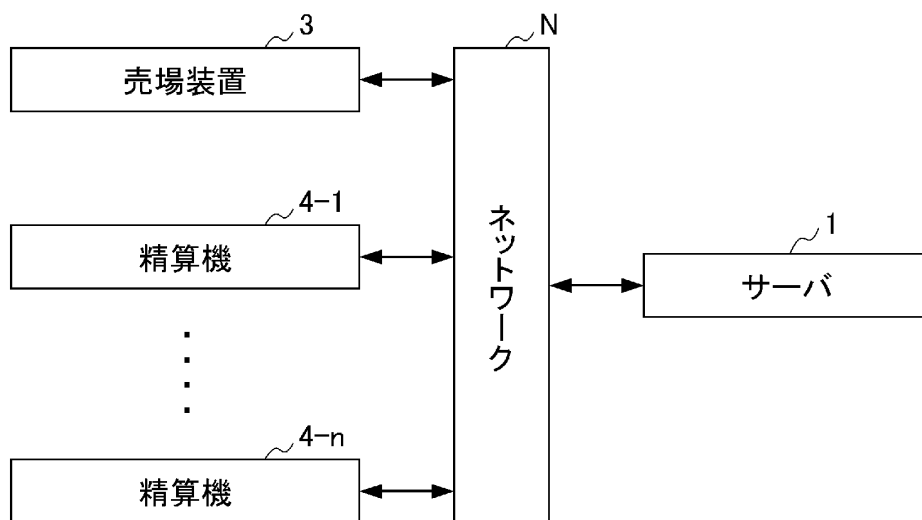
[図21]



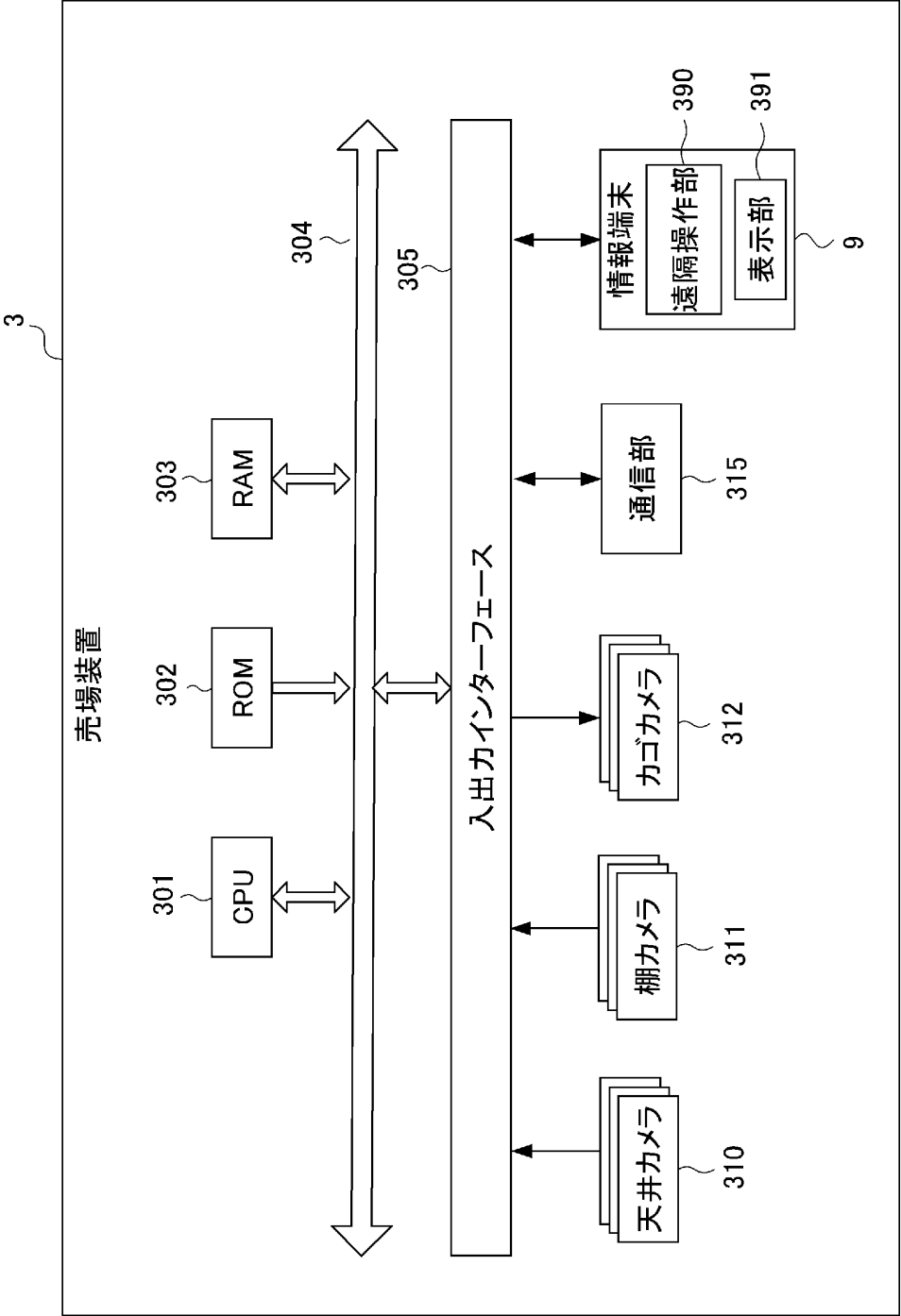
[図22]



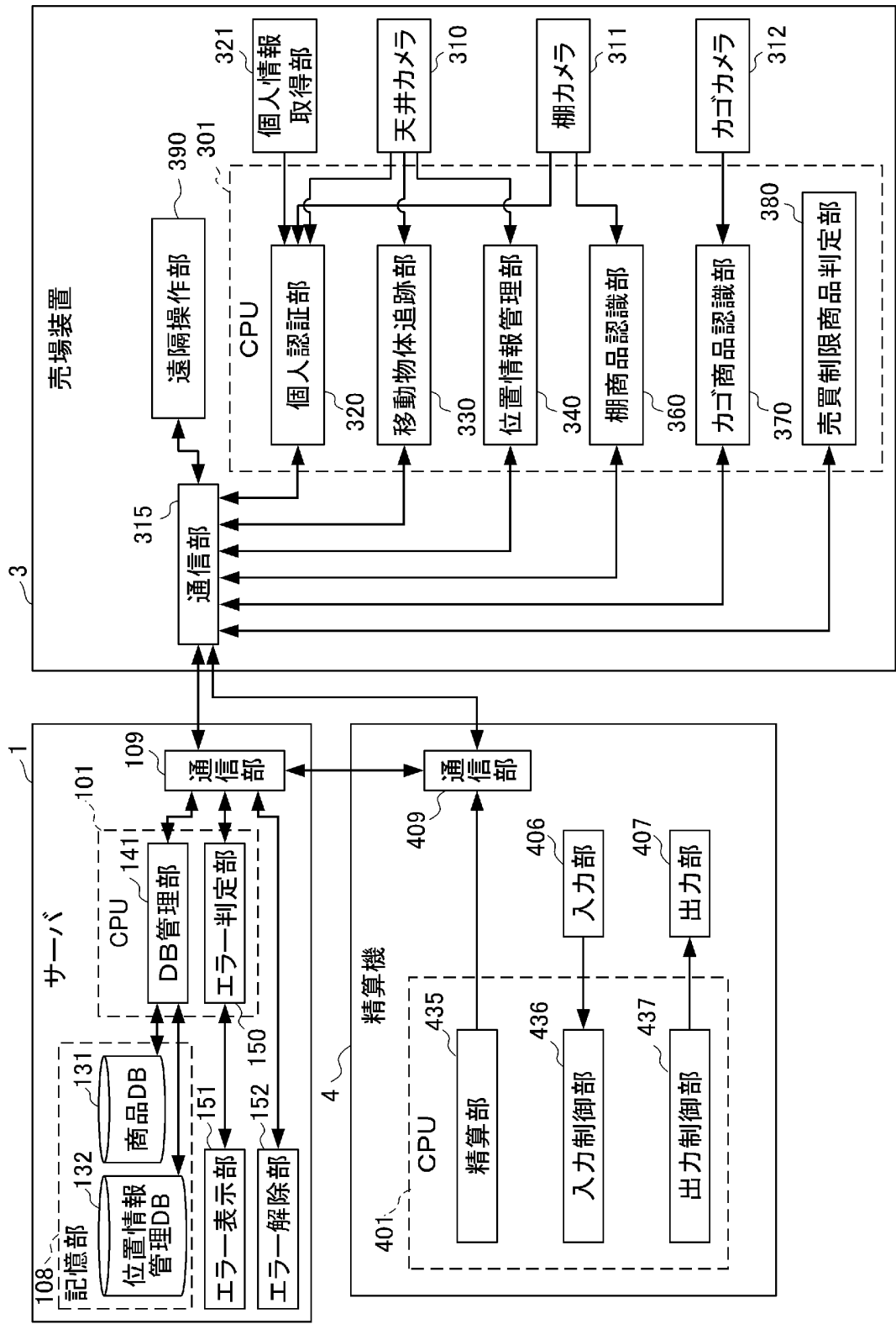
[図23]



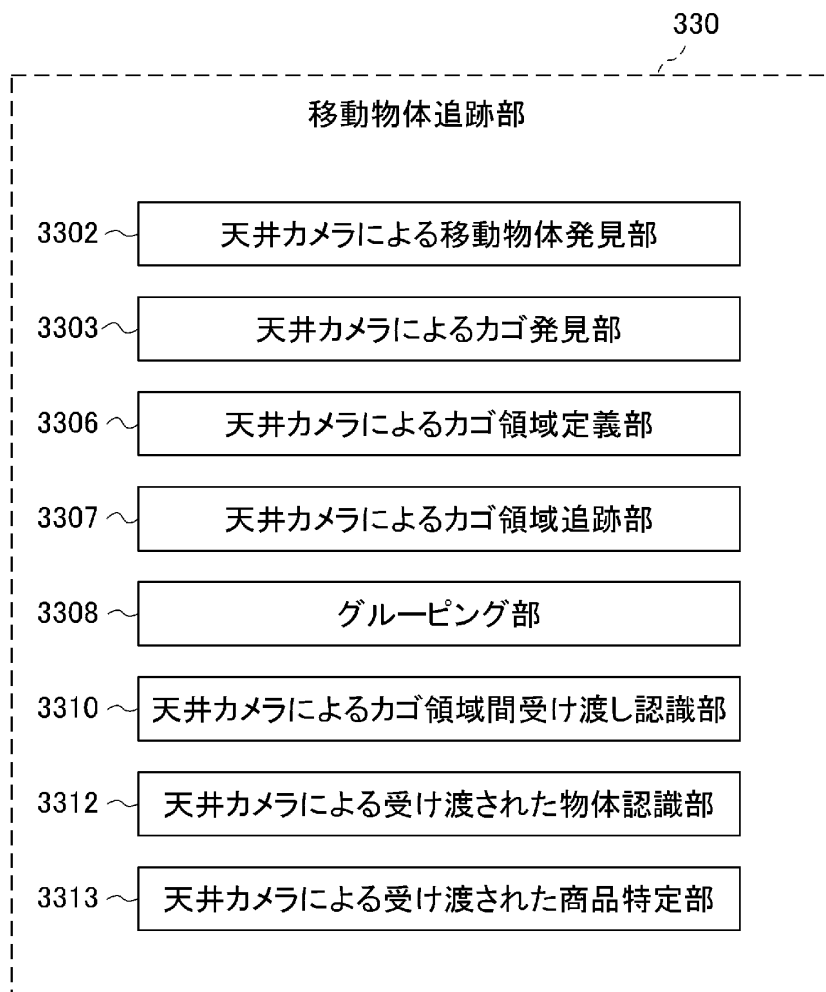
[図24]



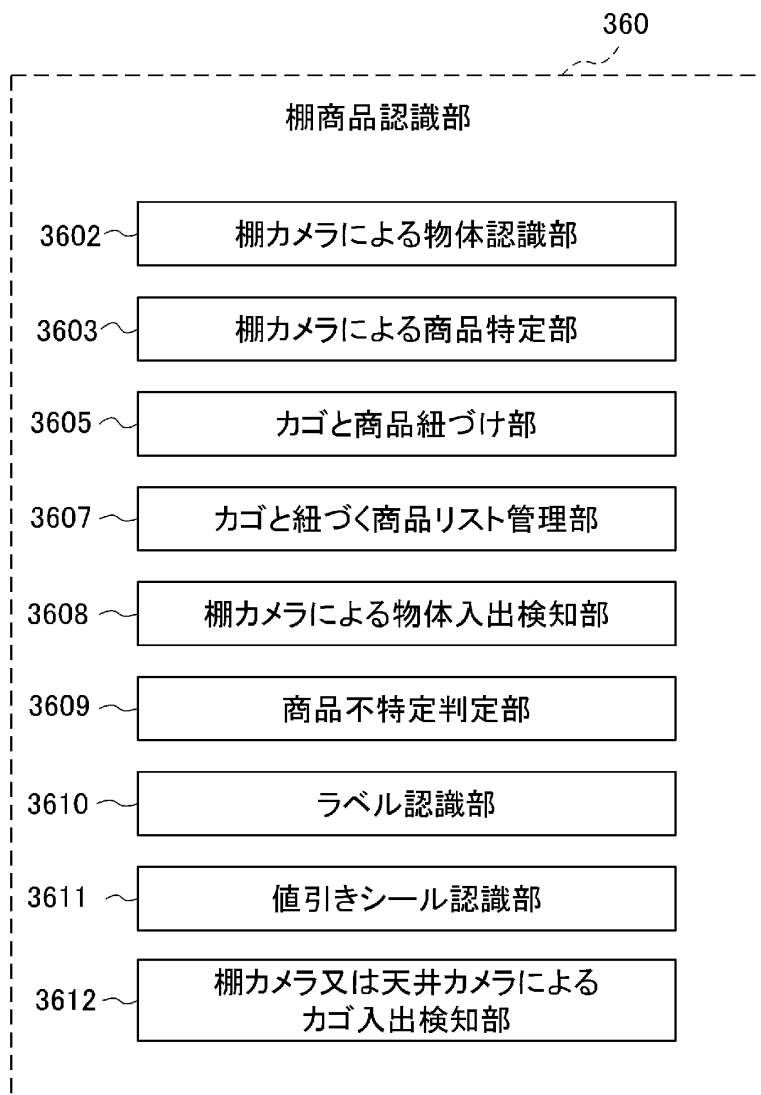
[図25]



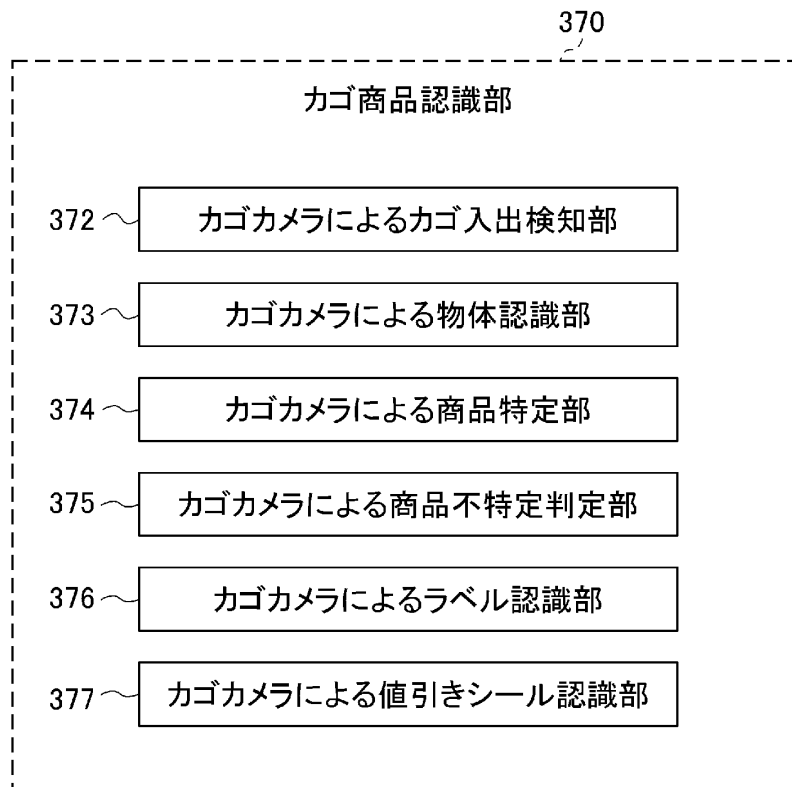
[図26]



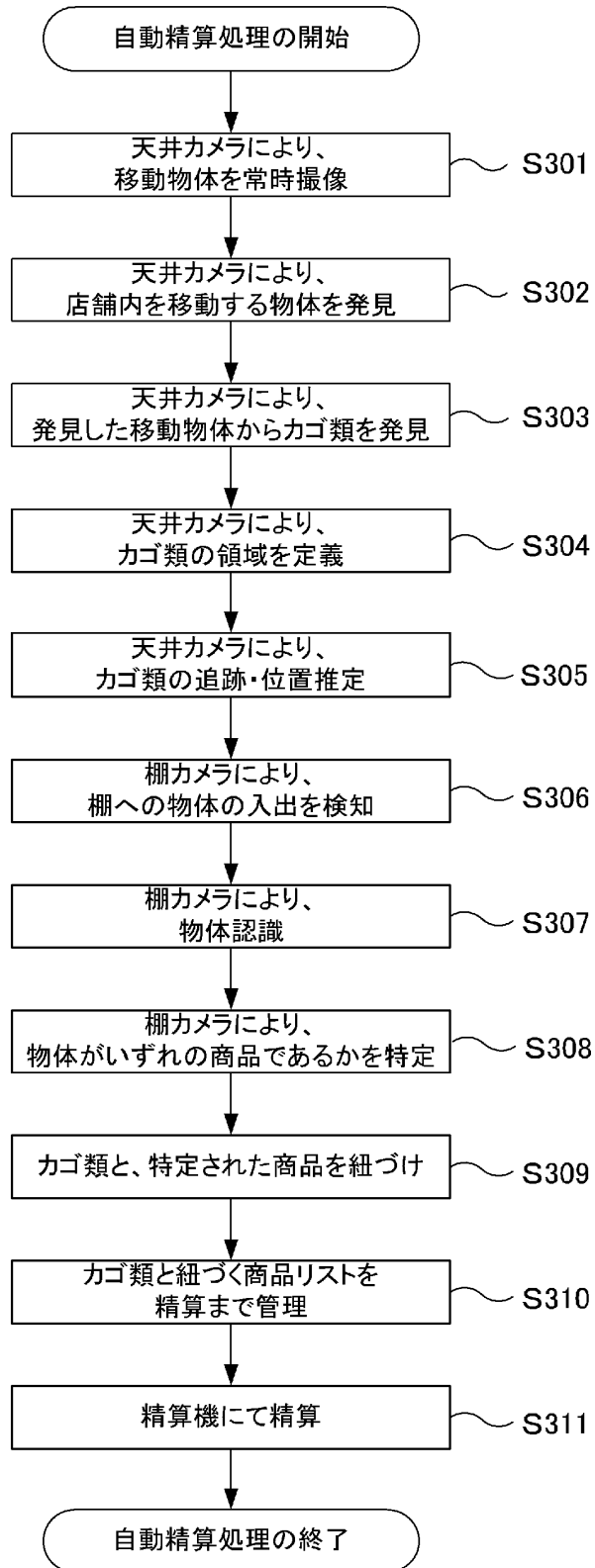
[図27]



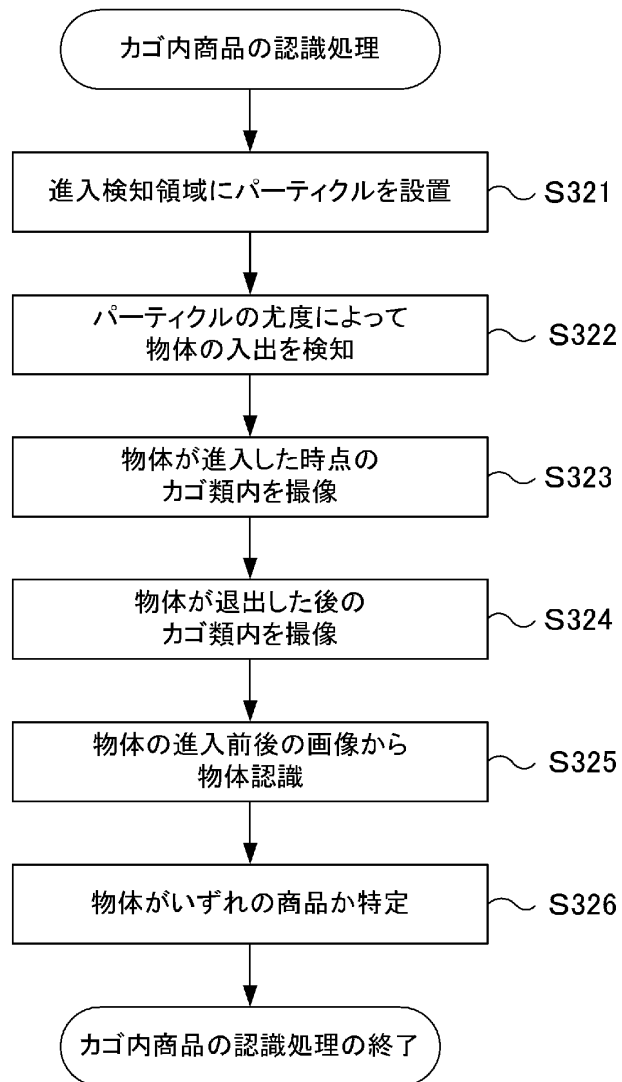
[図28]



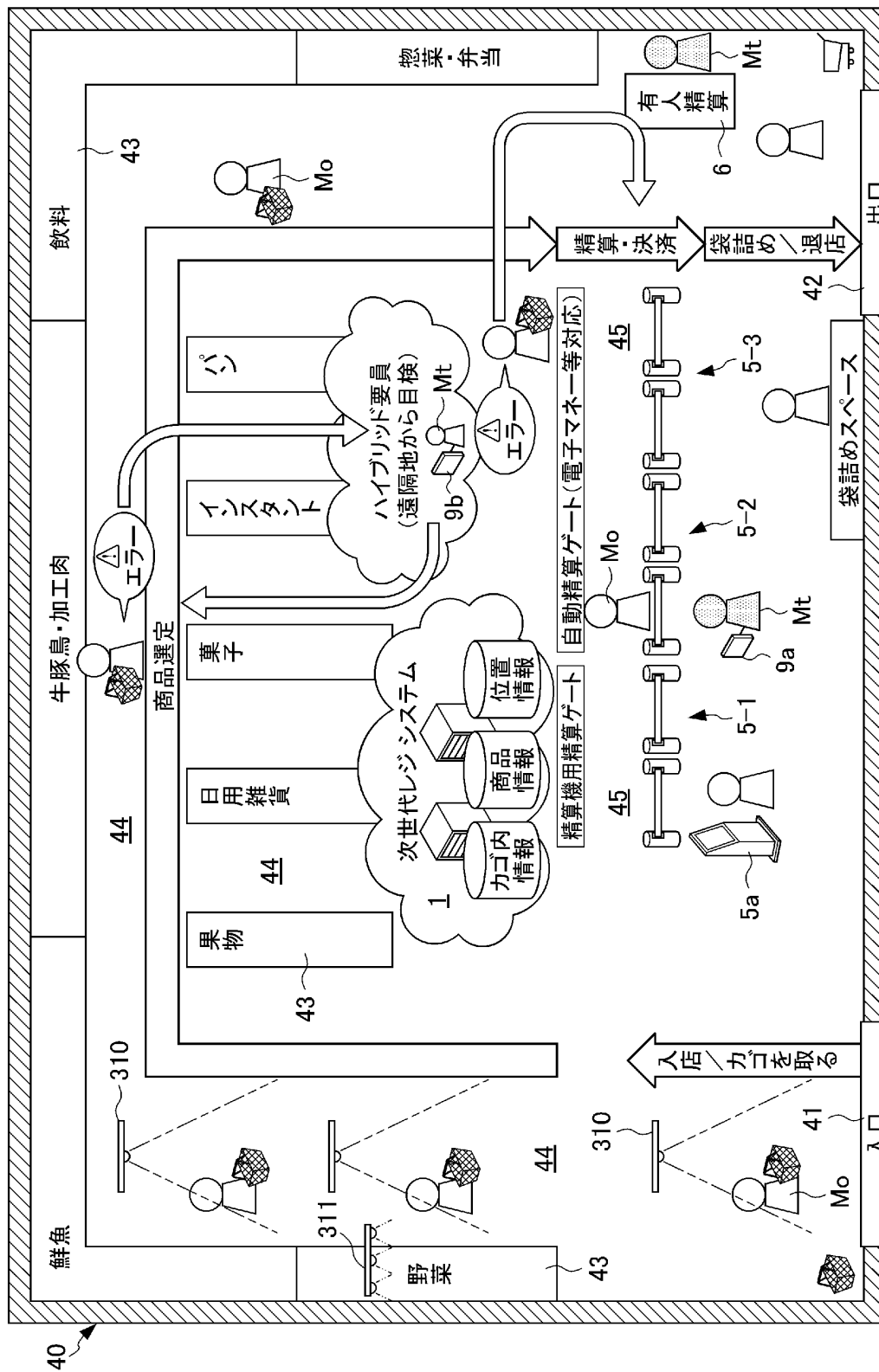
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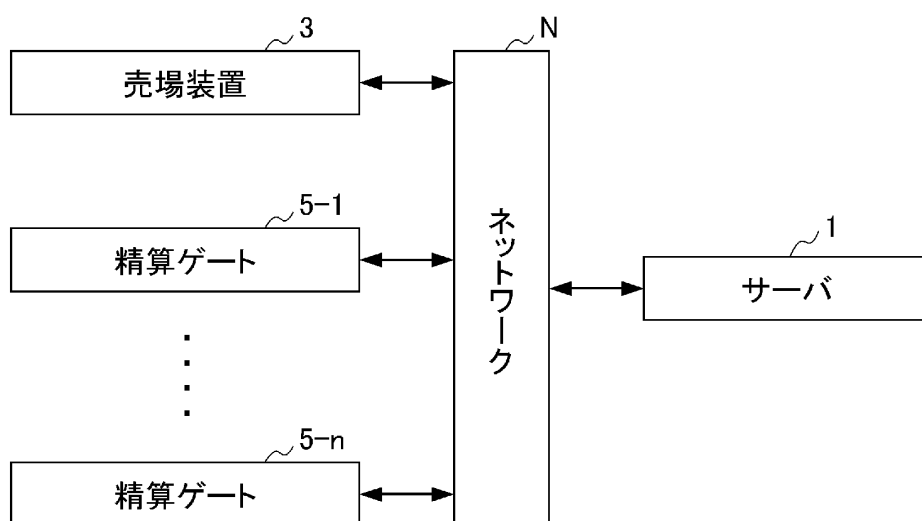
[図30]



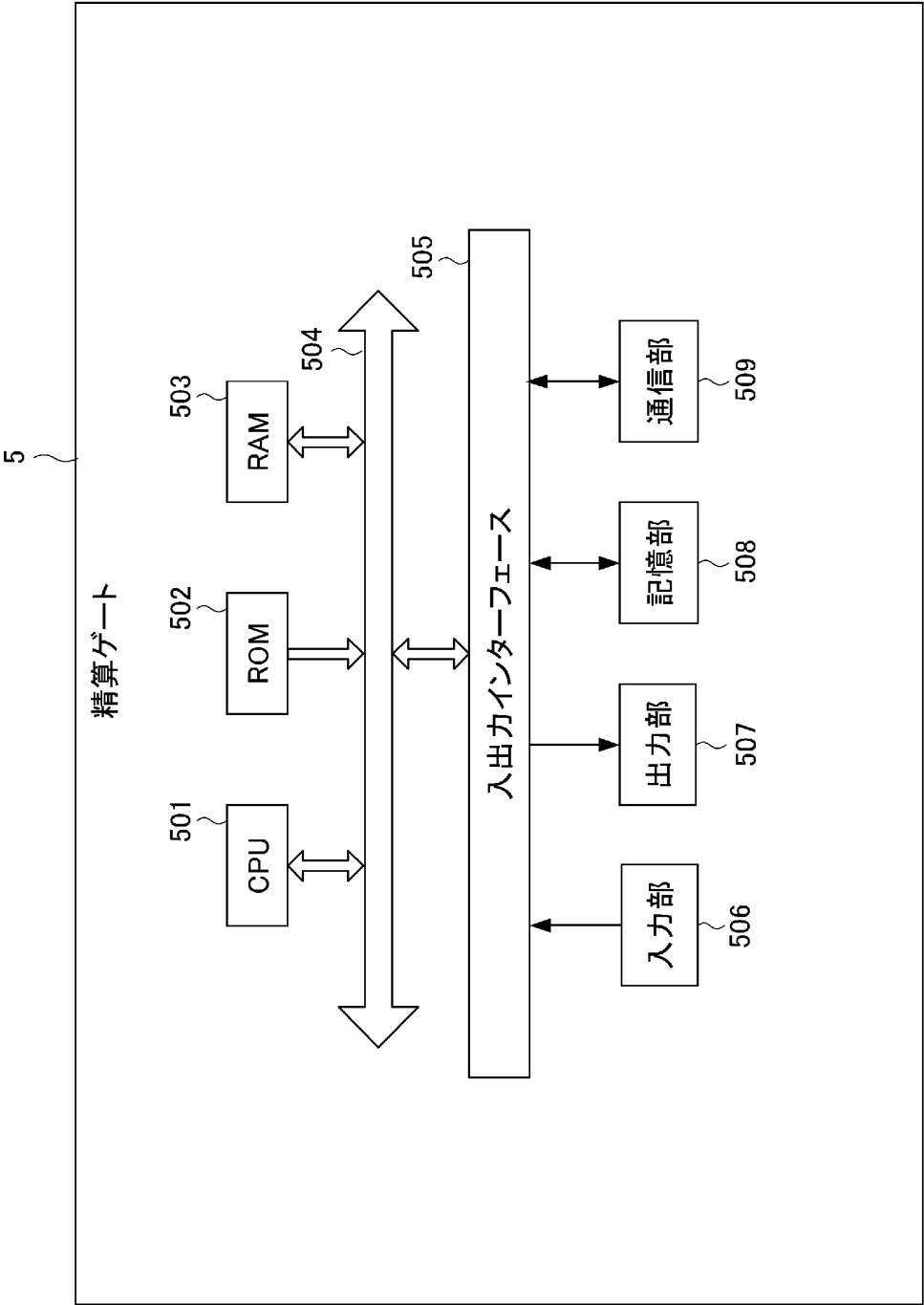
[図31]



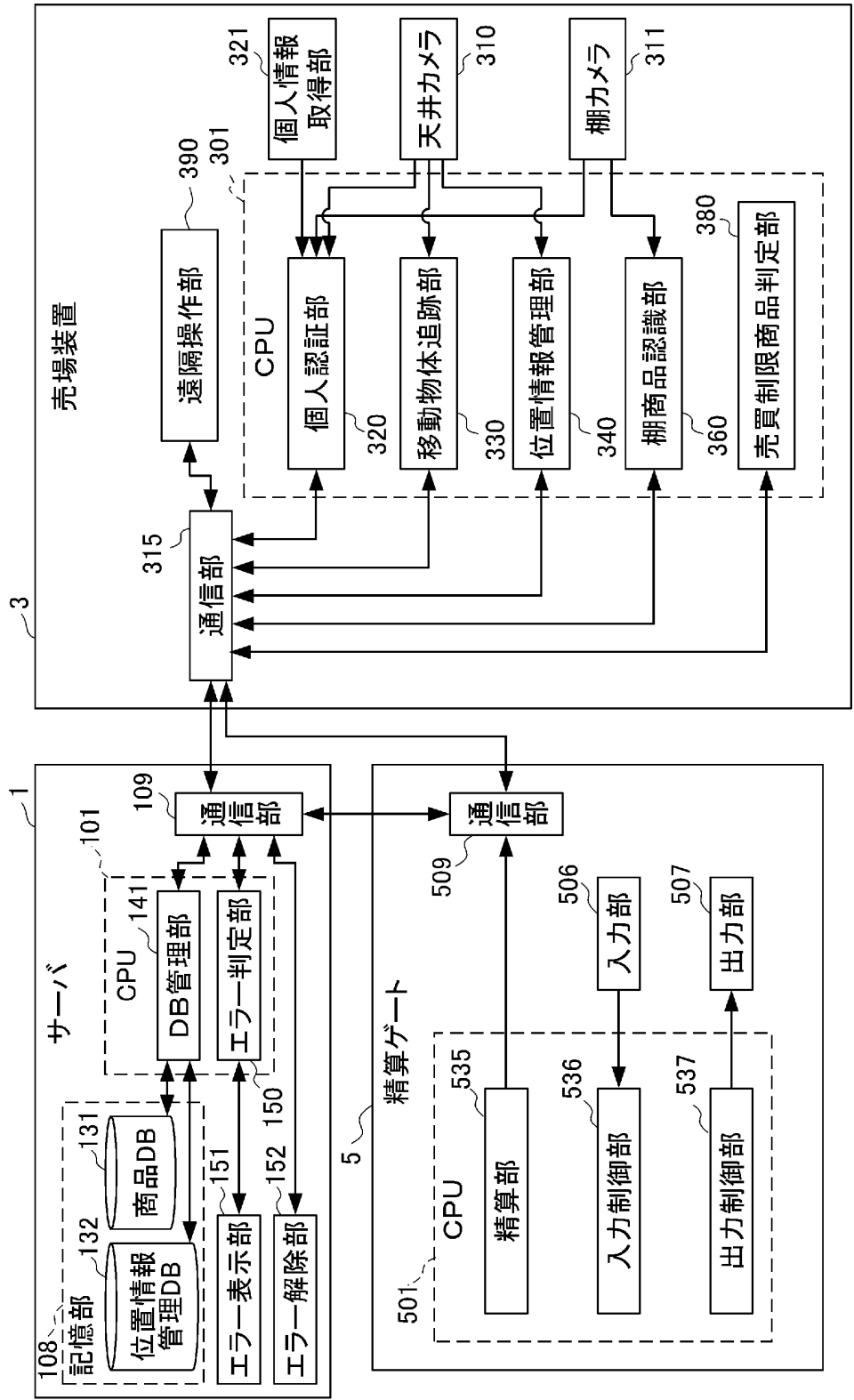
[図32]



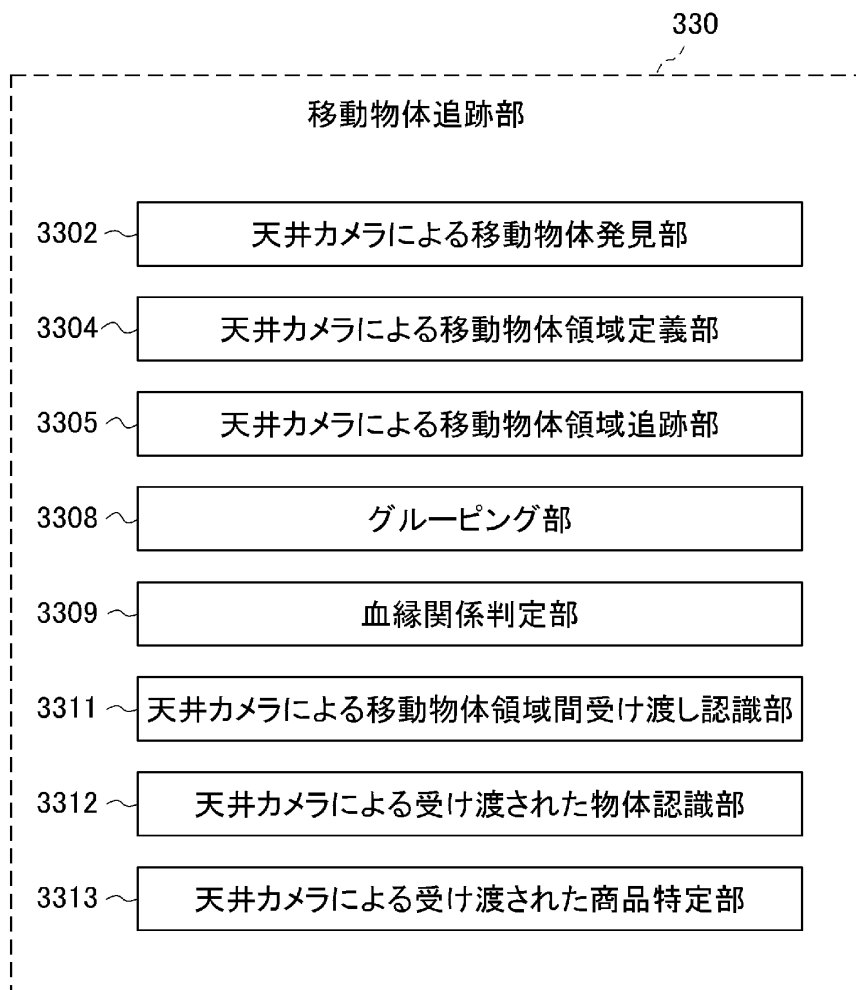
[図33]



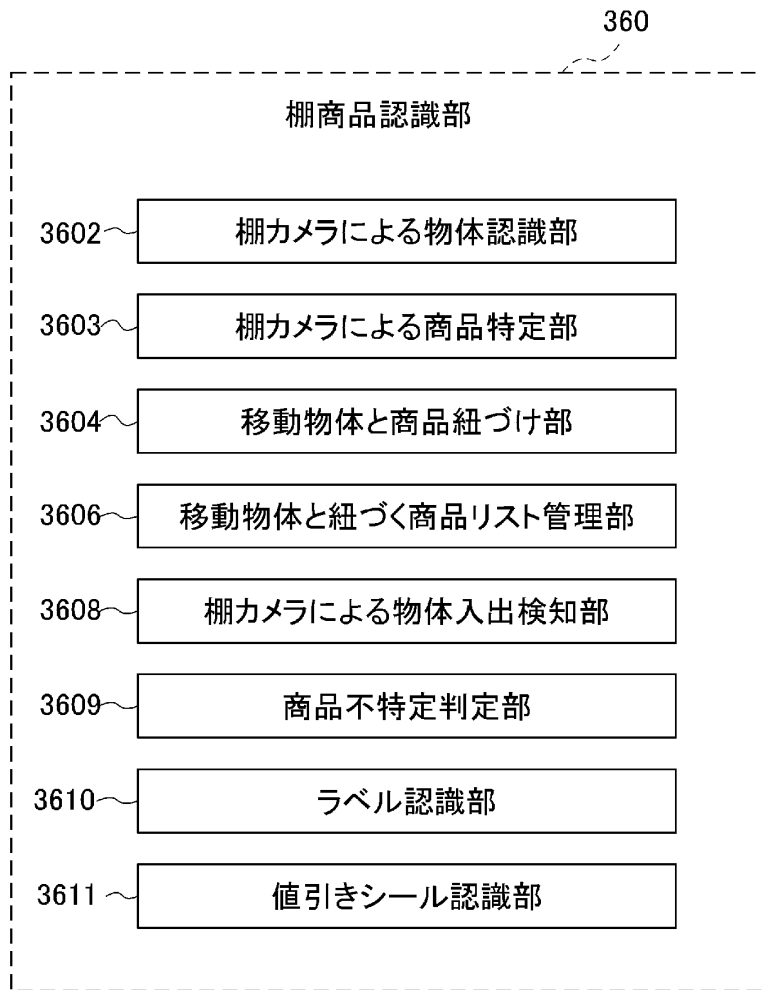
[図34]



[図35]



【図36】



[図37]

