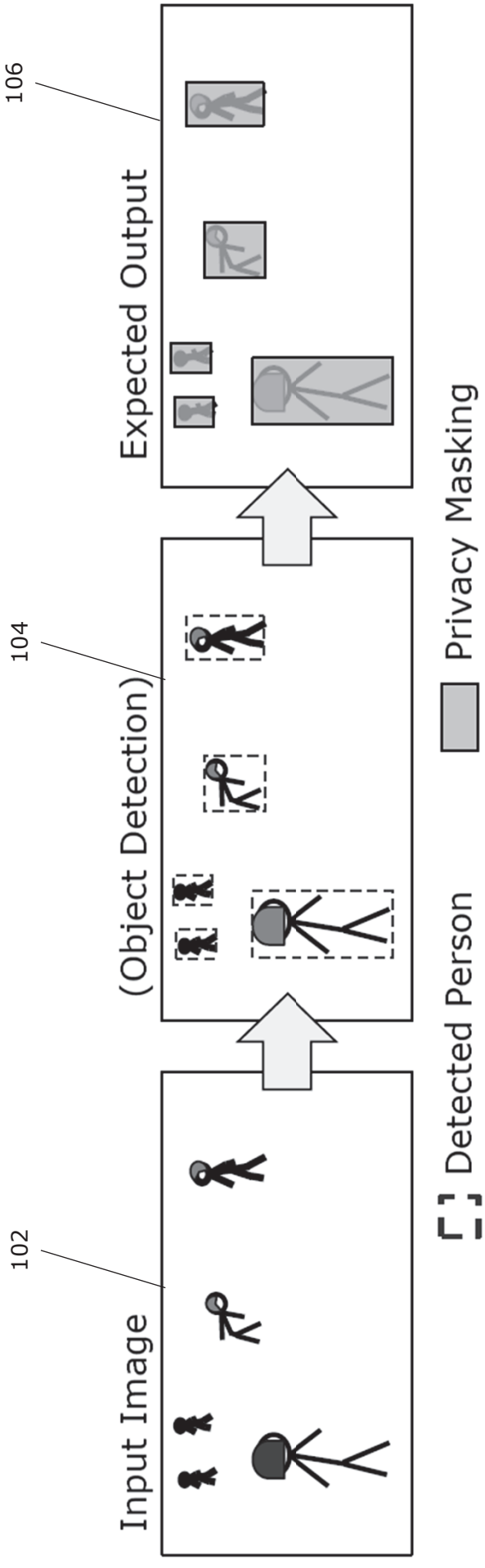

106
Expected Output
104
(Object Detection)
102
Input Image
Detected Person
Privacy Masking
100

Figure 1

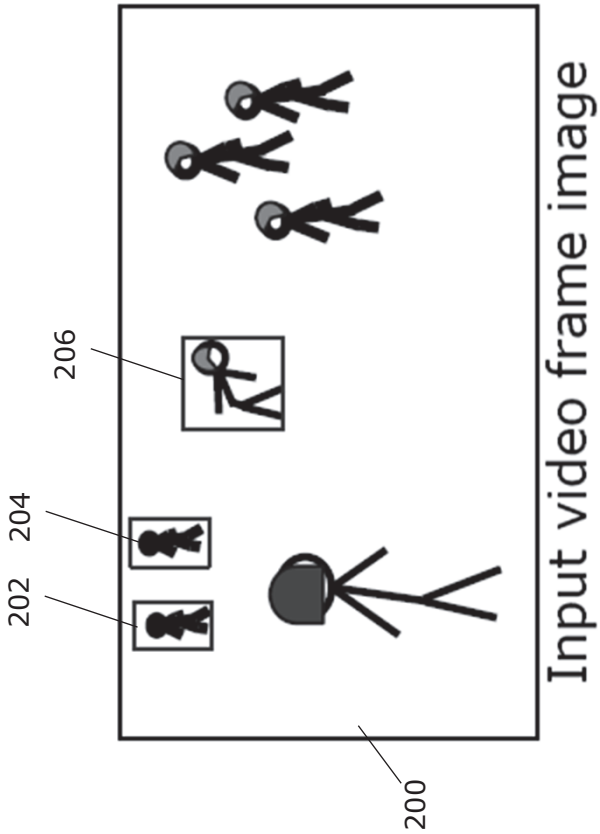




Figure 2

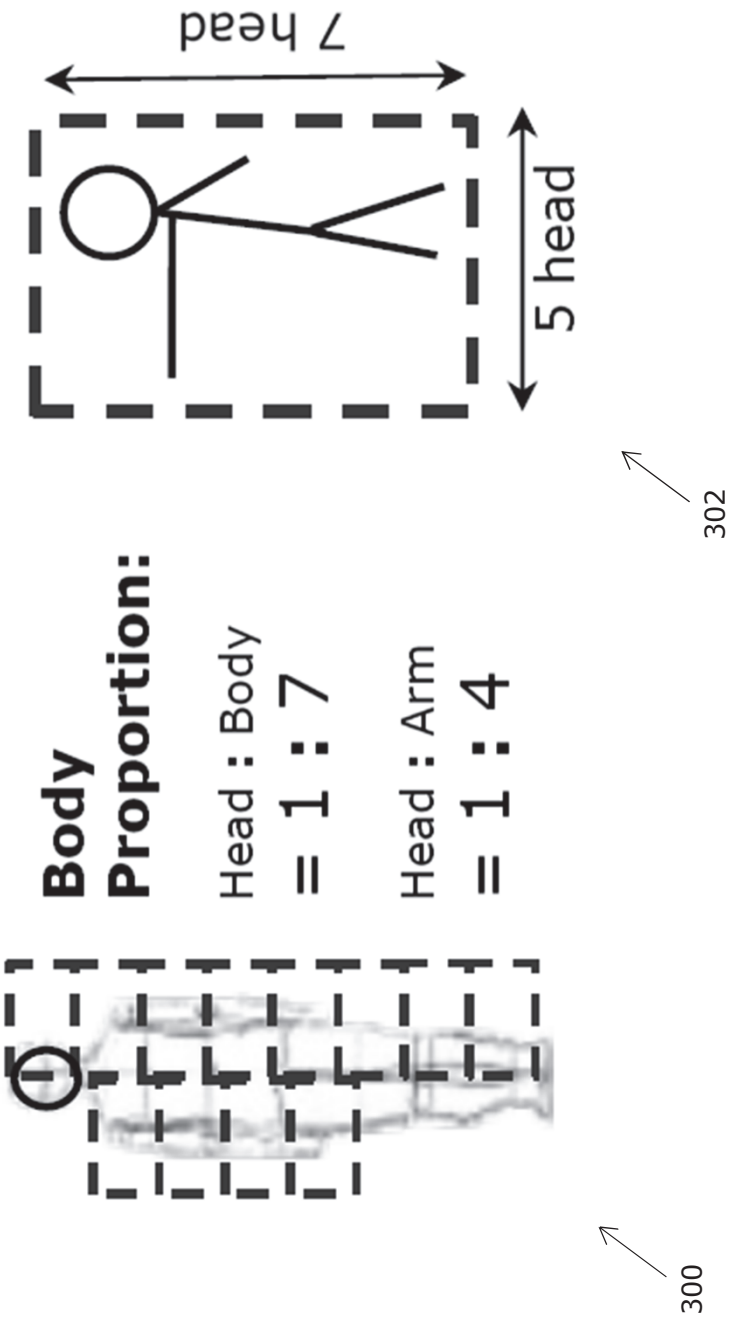


Figure 3

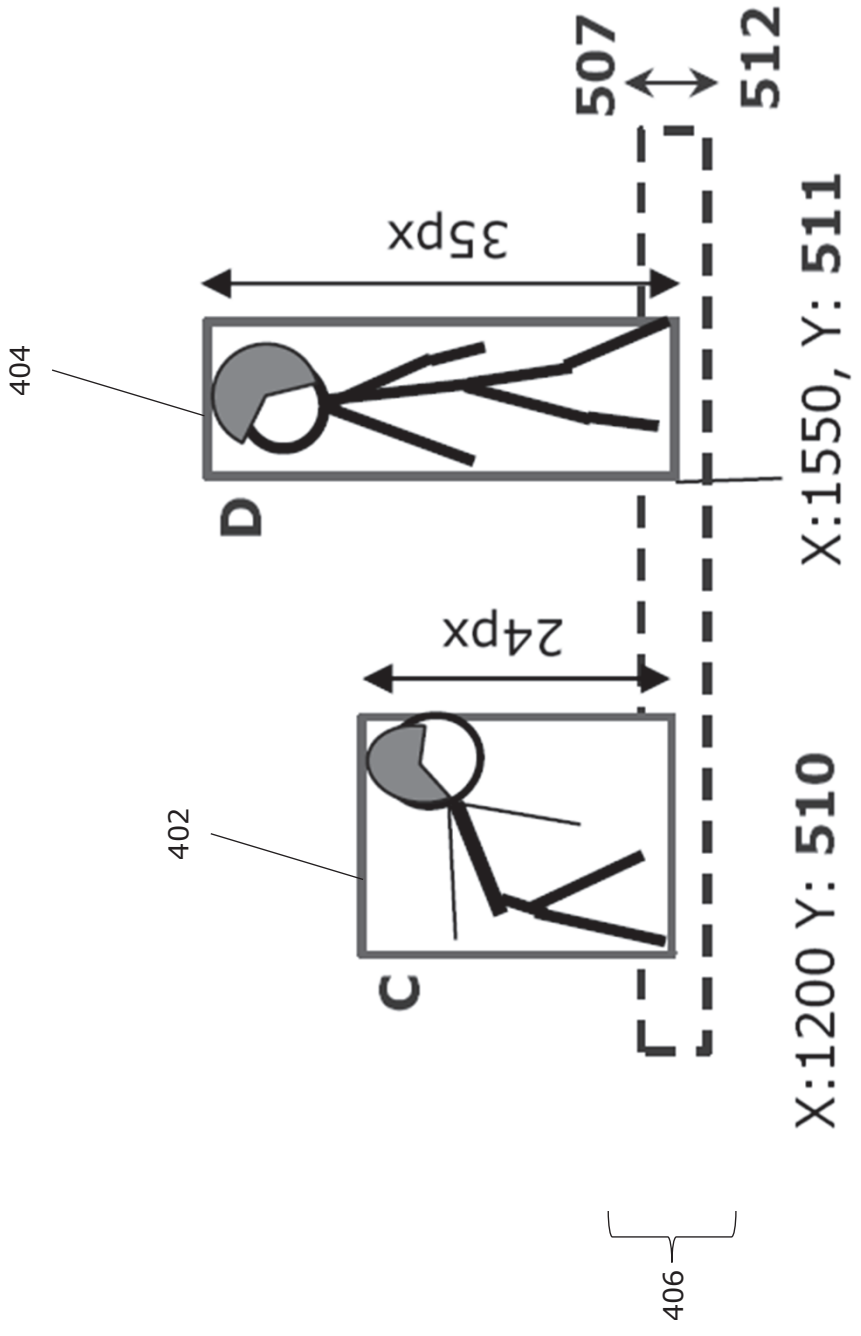


Figure 4

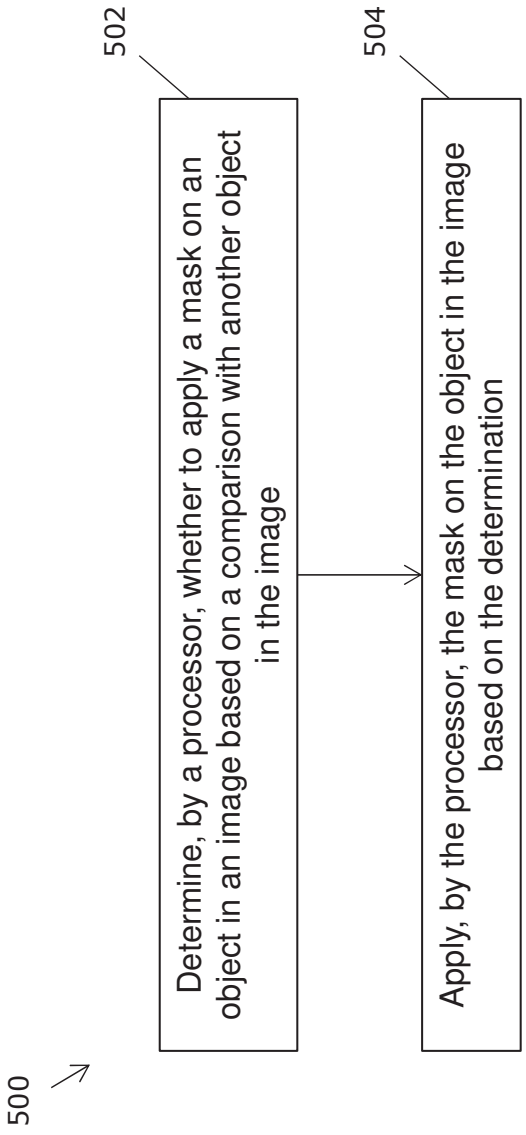
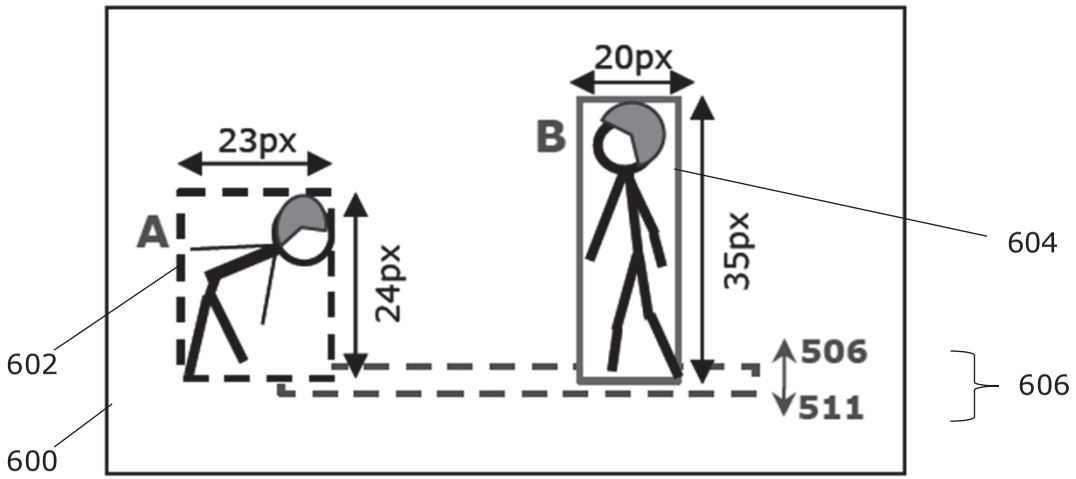

500
502
Determine, by a processor, whether to apply a mask on an object in an image based on a comparison with another object in the image
504
Apply, by the processor, the mask on the object in the image based on the determination

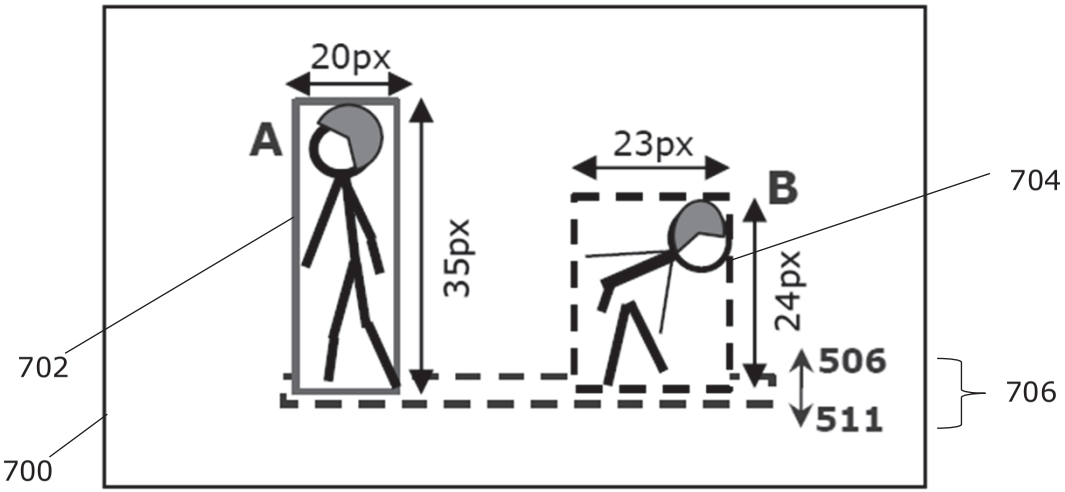
Figure 5



#	(X1, Y1)	(X2,Y2)	H	W	H / W Ratio	Search-Y From	Search-Y To	Privacy Mask Flag
A	1200, 485	1223, 509	24	23	24 / 23 = 1.0434	509 - 3 = 506	509 + 2 = 511	?
B	1550, 472	1570, 507	35	20	35 / 20 = 1.75	507 - 3 = 504	507 + 2 = 509	?

608

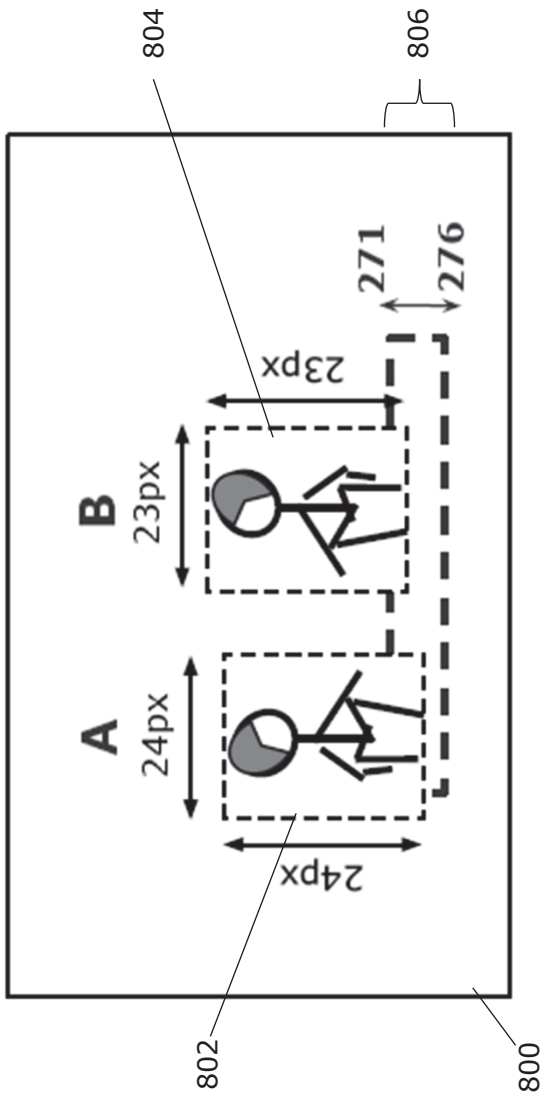
Figure 6



#	(X1, Y1)	(X2,Y2)	H	W	H / W Ratio	Search-Y From	Search-Y To	Privacy Mask Flag
A	1550, 472	1570, 507	35	20	35 / 20 = 1.75	507 - 3 = 504	507 + 2 = 509	**TRUE**
B	1200, 485	1223, 509	24	23	24 / 23 = 1.0434	509 - 3 = 506	509 + 2 = 511	?

708

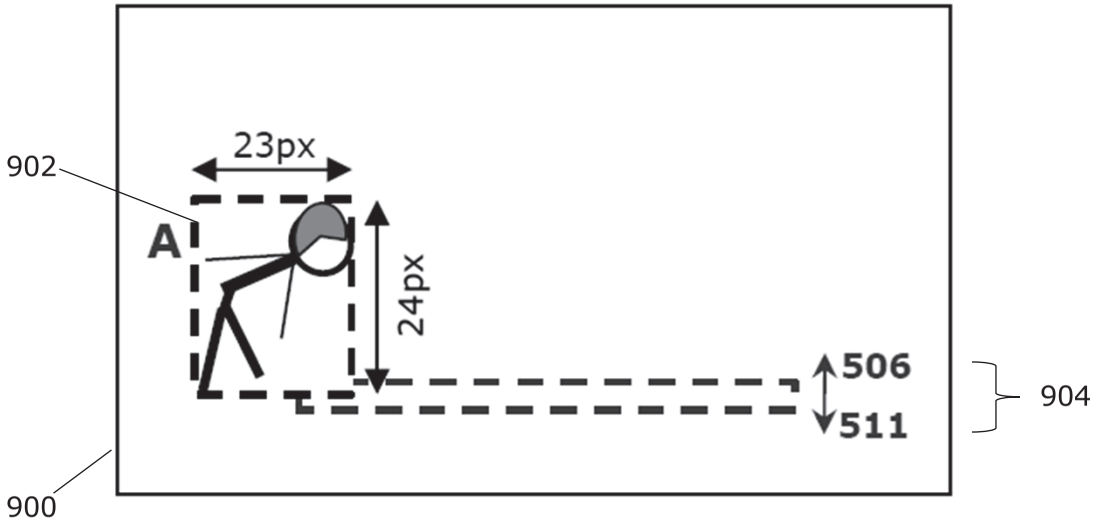
Figure 7



#	(X1, Y1)	(X2,Y2)	H	W	H / W Ratio	Search-Y From	Search-Y To	Privacy Mask Flag
A	300, 250	324, 274	24	24	24 / 24 = 1.0	274 - 3 = 271	274 + 2 = 276	?
B	450, 248	473, 271	23	23	23 / 23 = 1.0	271 - 3 = 268	271+ 2 = 273	?

800

Figure 8



#	(X1, Y1)	(X2,Y2)	H	W	H / W Ratio	Search-Y From	Search-Y To	Privacy Mask Flag
A	1200, 486	1224, 509	24	23	24 / 23 = 1.0434	509 - 3 = 506	509 + 2 = 511	?

906

Figure 9

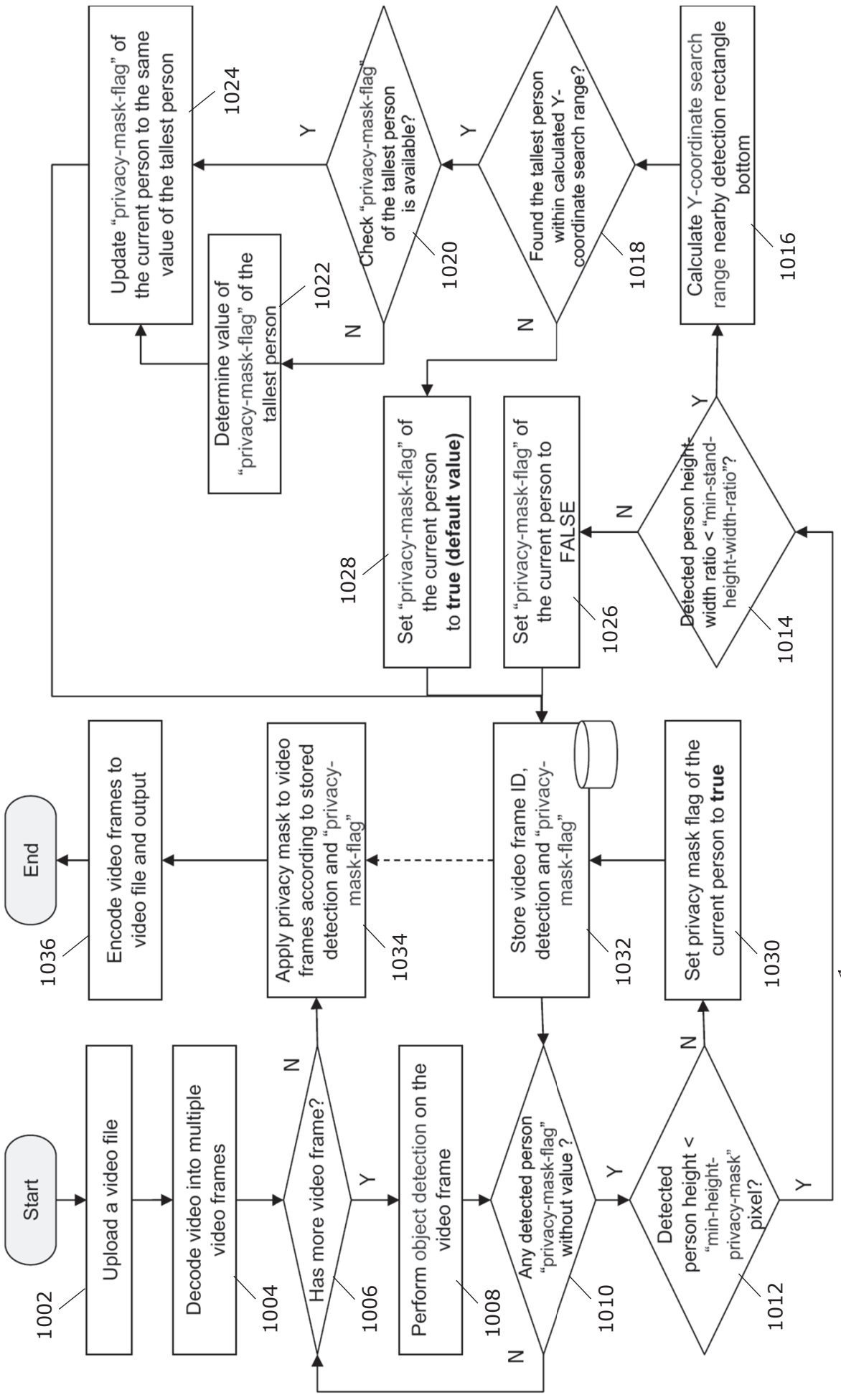

Start
1002
Upload a video file
Decode video into multiple video frames
1004
Has more video frame?
1006
N
Y
Perform object detection on the video frame
1008
Any detected person "privacy-mask-flag" without value ?
1010
N
Y
Detected person height < "min-height-privacy-mask" pixel?
1012
N
Y
Set privacy mask flag of the current person to true
1030
Store video frame ID, detection and "privacy-mask-flag"
1032
Apply privacy mask to video frames according to stored detection and "privacy-mask-flag"
1034
Encode video frames to video file and output
1036
End
1000
Detected person height-width ratio < "min-stand-height-width-ratio"?
1014
N
Y
Set "privacy-mask-flag" of the current person to FALSE
1026
Set "privacy-mask-flag" of the current person to true (default value)
1028
Calculate Y-coordinate search range nearby detection rectangle bottom
1016
Found the tallest person within calculated Y-coordinate search range?
1018
N
Y
Check "privacy-mask-flag" of the tallest person is available?
1020
N
Y
Determine value of "privacy-mask-flag" of the tallest person
1022
Update "privacy-mask-flag" of the current person to the same value of the tallest person
1024

Figure 10

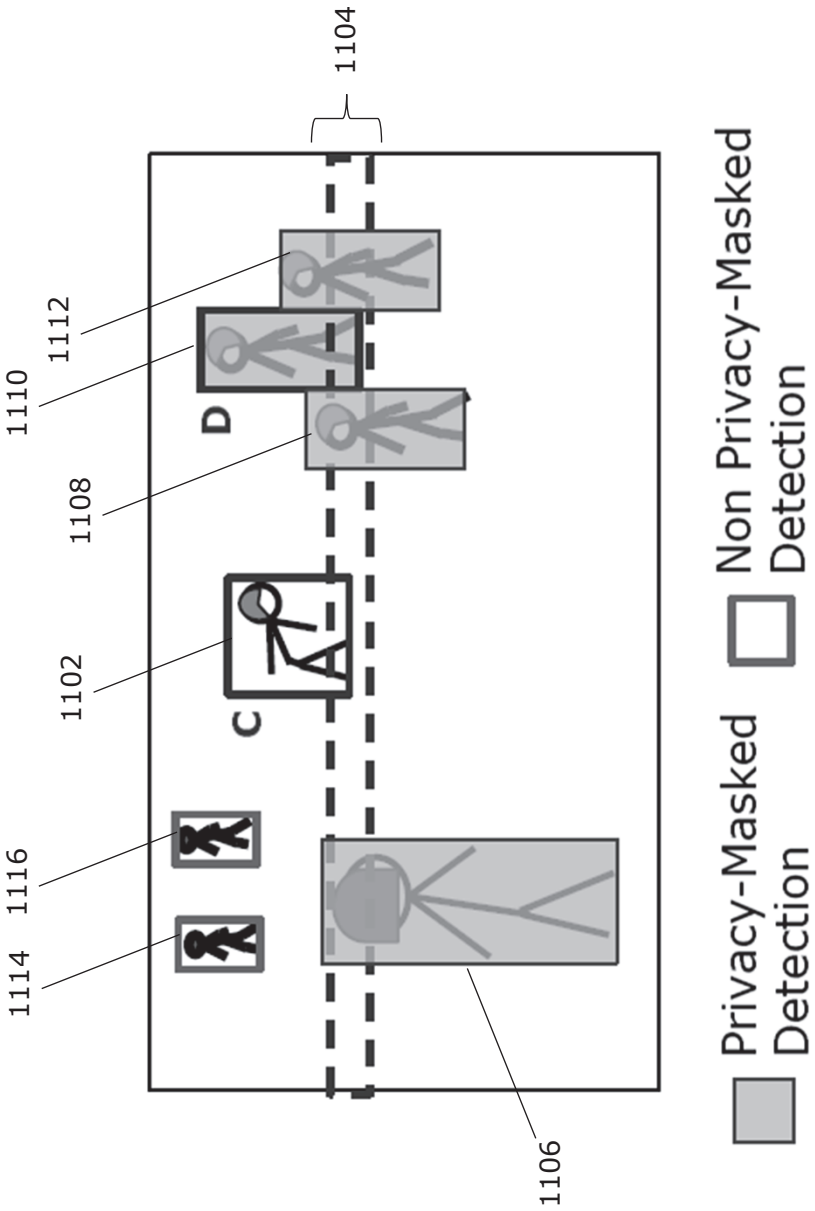

1104
1110
1112
1108
D
1102
C
1116
1114
1106
Privacy-Masked Detection
Non Privacy-Masked Detection
1100

Figure 11

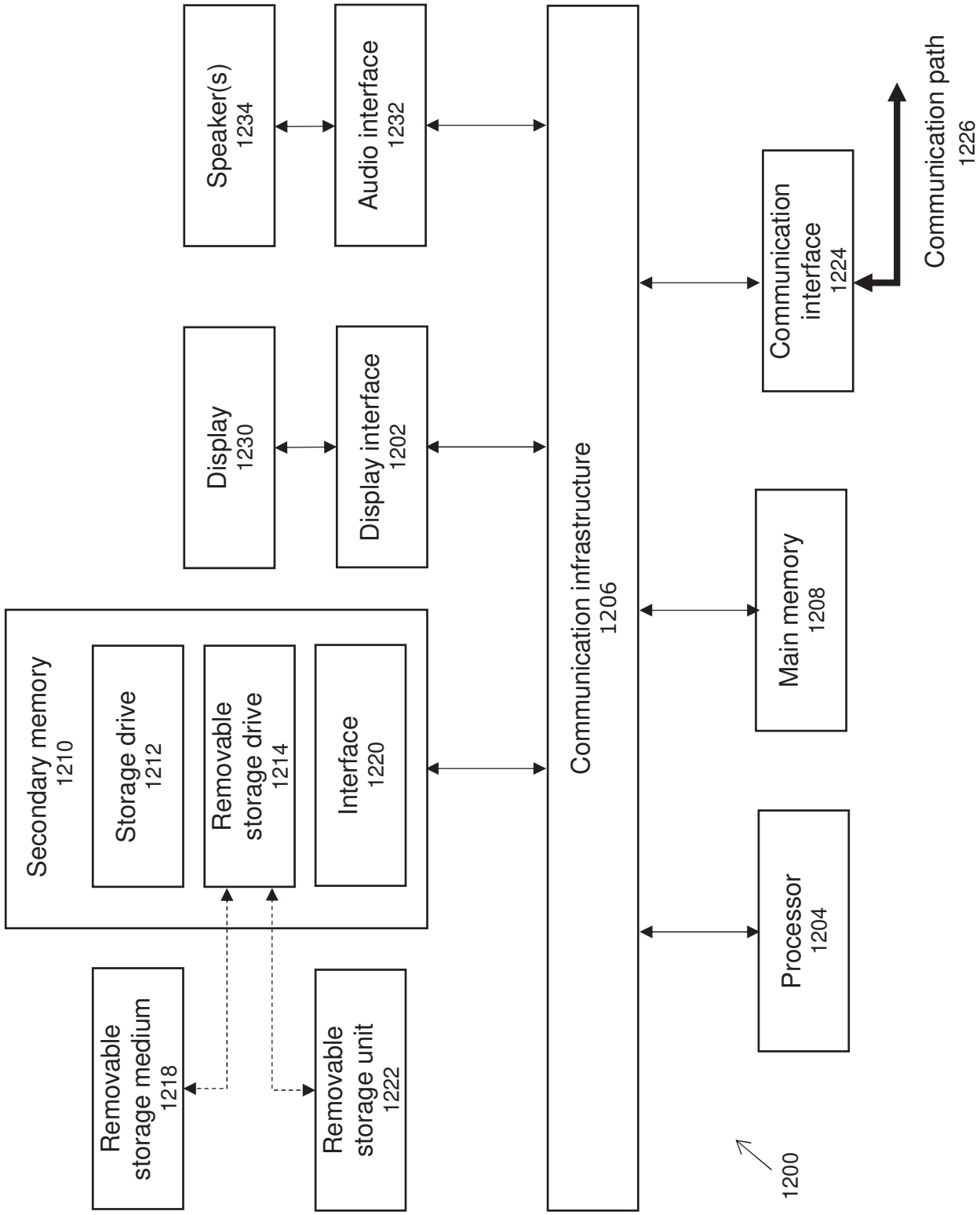

Speaker(s)
1234
Audio interface
1232
Display
1230
Display interface
1202
Secondary memory
1210
Storage drive
1212
Removable storage drive
1214
Interface
1220
Communication infrastructure
1206
Communication interface
1224
Communication path
1226
Main memory
1208
Removable storage medium
1218
Removable storage unit
1222
Processor
1204
1200

Figure 12