

Fig. 1

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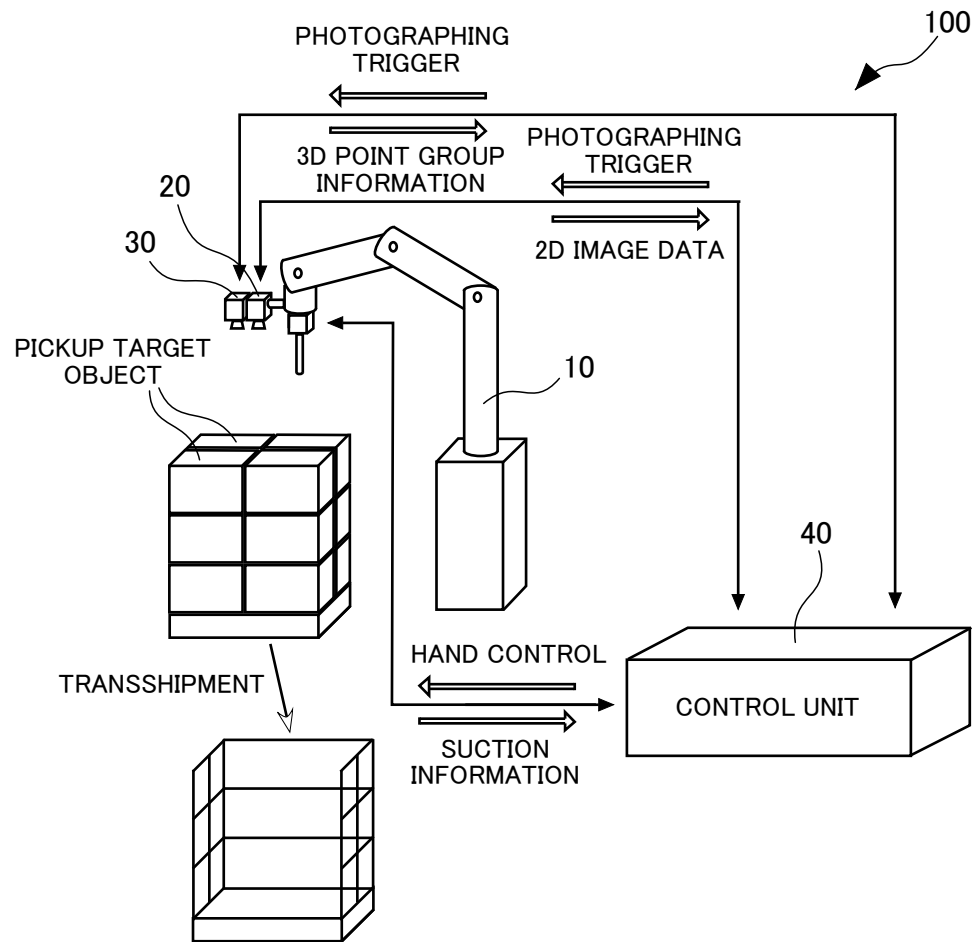


Fig. 2

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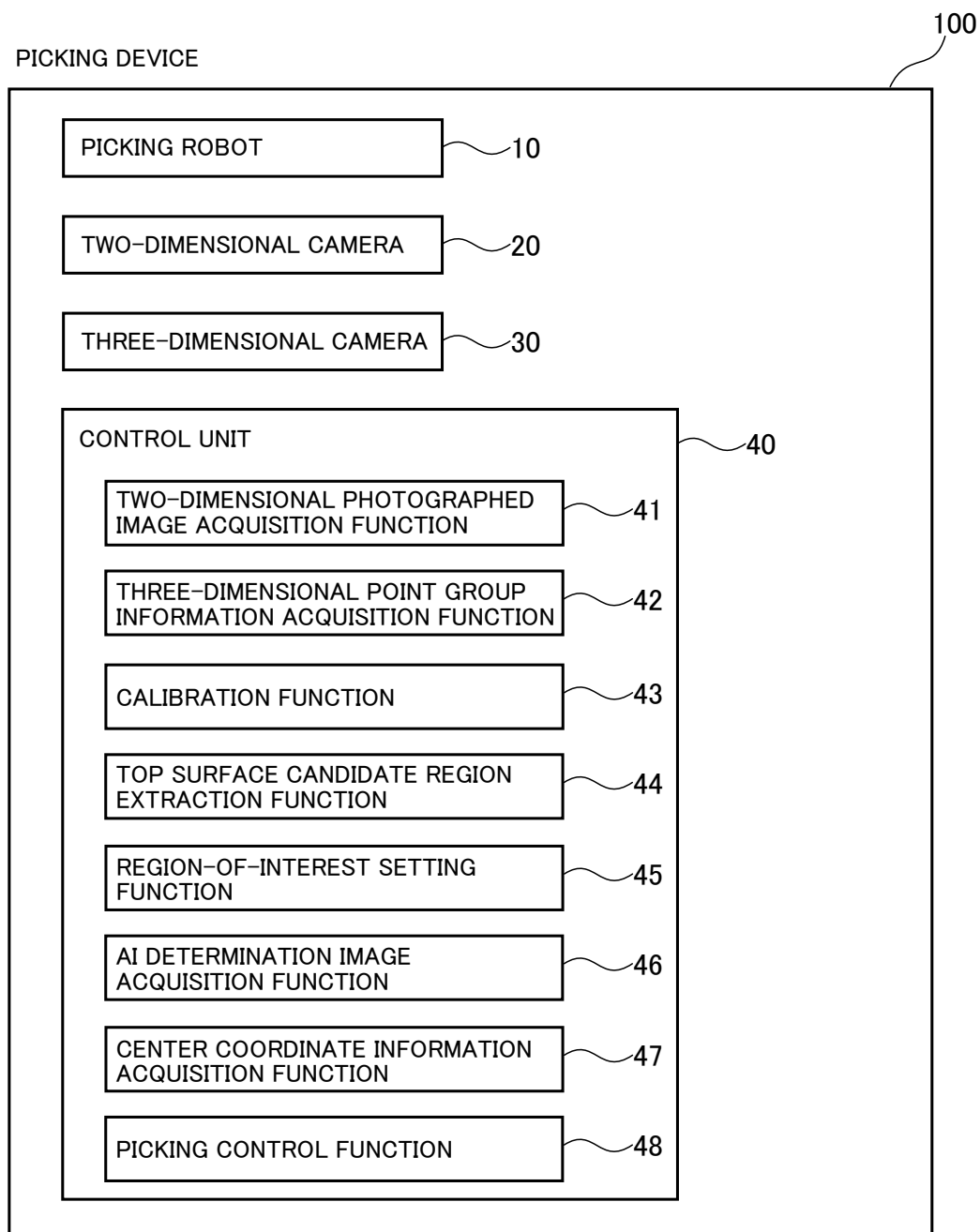


Fig. 3

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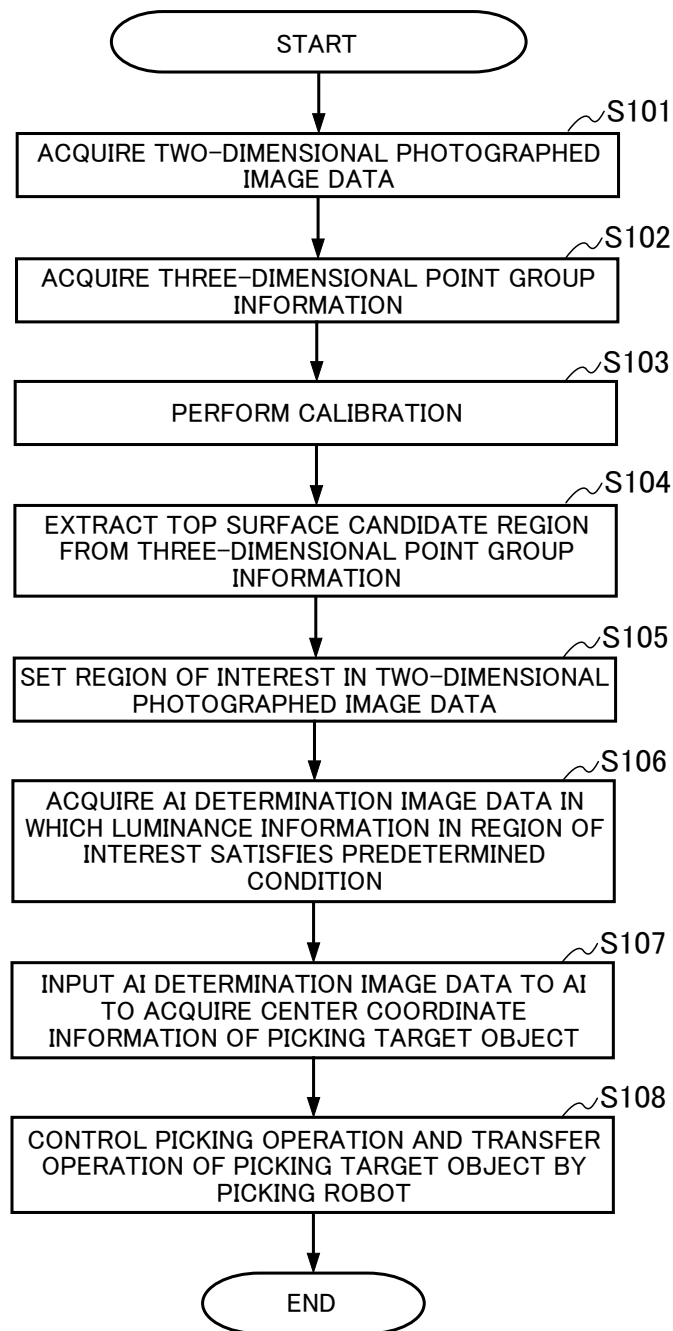


Fig. 4

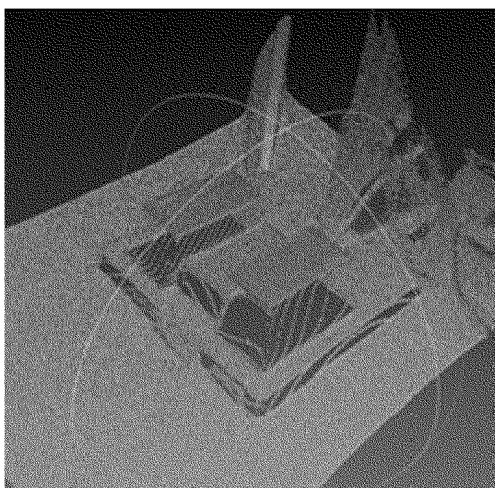
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TWO-DIMENSIONAL PHOTOGRAPHED IMAGE DATA



Fig. 5

THREE-DIMENSIONAL POINT GROUP INFORMATION



THREE-DIMENSIONAL POINT GROUP INFORMATION
DRAWN AT FIELD ANGLE OF TWO-DIMENSIONAL
CAMERA

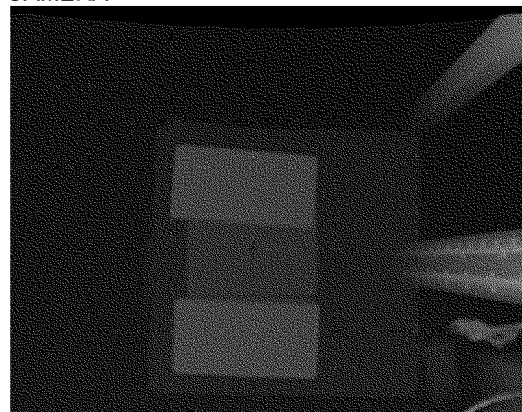


IMAGE OBTAINED BY EXTRACTING TOP
SURFACE CANDIDATE REGION

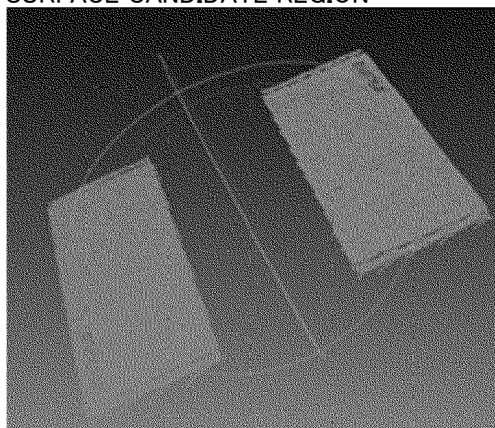


Fig. 6

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SET REGION OF INTEREST IN TWO-DIMENSIONAL
PHOTOGRAPHED IMAGE DATA

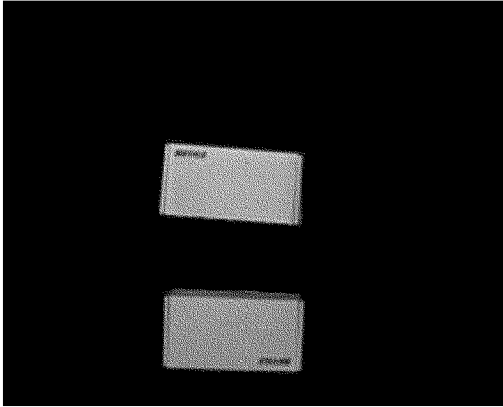


Fig. 7

AI DETERMINATION IMAGE DATA

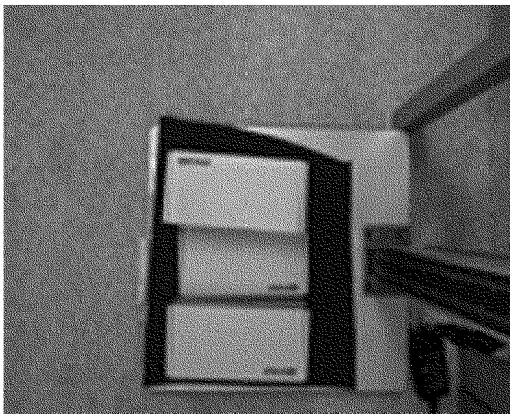


Fig. 8

IMAGE OBTAINED BY SUPERIMPOSING AND
DISPLAYING CENTER COORDINATE INFORMATION
OUTPUT BY AI ON TWO-DIMENSIONAL
PHOTOGRAPHED IMAGE DATA

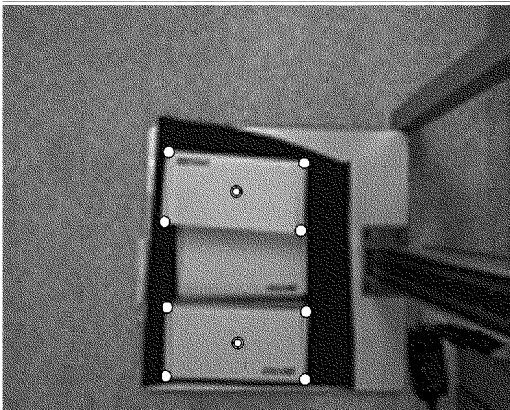


Fig. 9

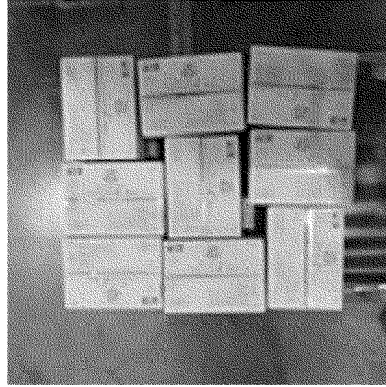
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EXAMPLE OF PHOTOGRAPHING PLURALITY OF TIMES WHILE CHANGING EXPOSURE TIME

EXPOSURE TIME (SHORT)



EXPOSURE TIME (INTERMEDIATE)



EXPOSURE TIME (LONG)

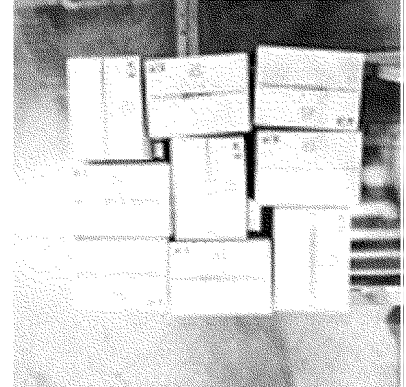
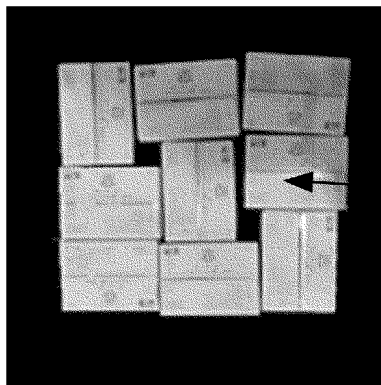


Fig. 10



TWO-DIMENSIONAL PHOTOGRAPHED IMAGE
DATA FOR AI DETERMINATION IS OBTAINED
BY FOCUSING ONLY ON LUMINANCE
INFORMATION OF PIXEL IN REGION OF
INTEREST AND PERFORMING
DETERMINATION REGARDING
PREDETERMINED CONDITION

Fig. 11

