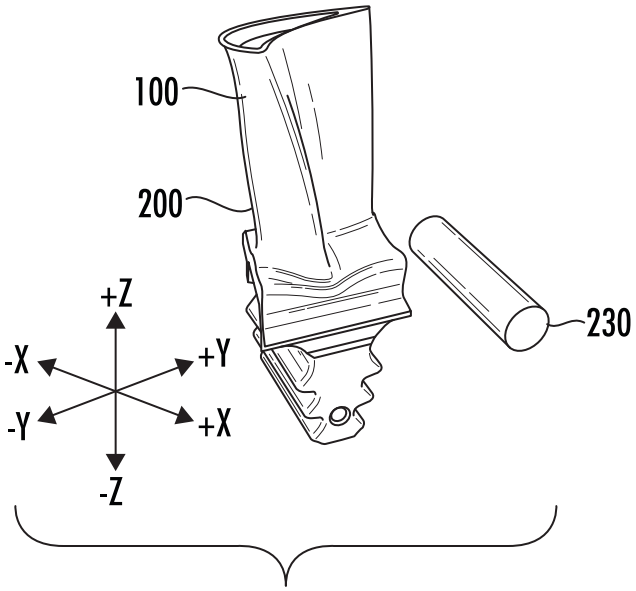


FIG. 1A

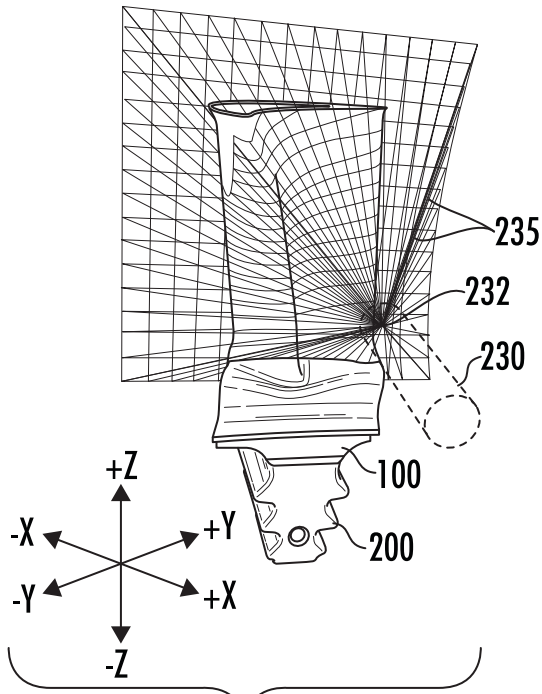


FIG. 1B

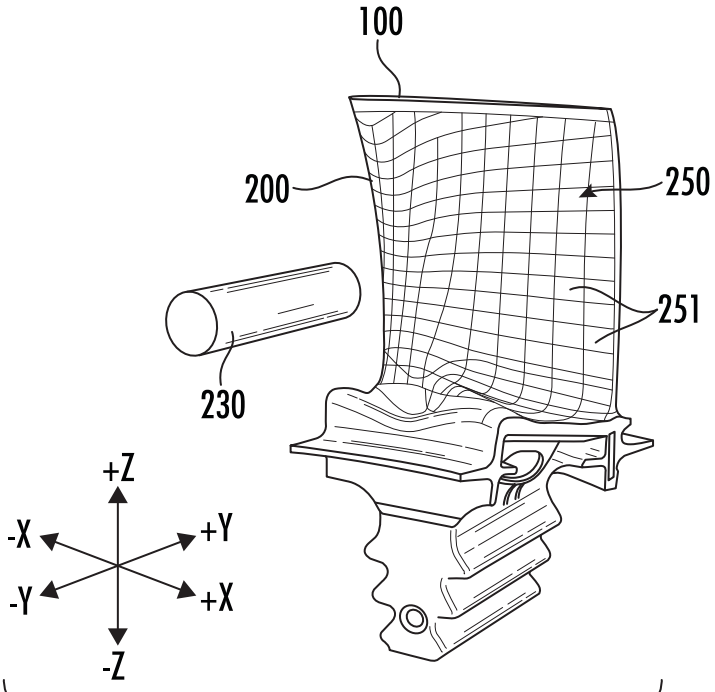


FIG. 1C

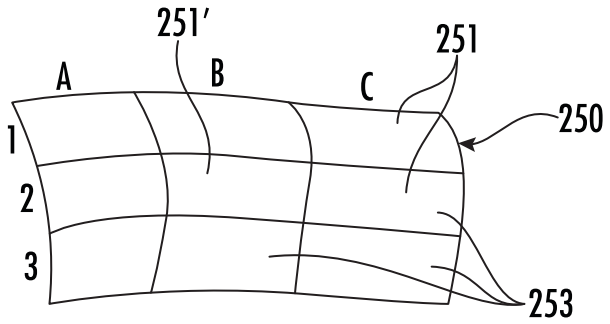


FIG. 2

260

ADJACENT PIXEL	DISTANCE
A1	.42 mm
A2	.31 mm
A3	.40 mm
B1	.26 mm
B3	.28 mm
C1	.45 mm
C2	.34 mm
C3	.48 mm

252

263

FIG. 3A

260

PIXEL PROPERTY	VALUE
B2 AREA:	.096 mm2
B2 SURFACE INCLINATION (X, Y)	(1.4, 5.1)
B2 COLOR (RGB)	(143, 146, 148)
ANGLE OF RAY TO CENTER OF PIXEL (X, Y)	(0.8, 1.3)
LENGTH OF RAY TO CENTER OF PIXEL	0.30 m
COOLING HOLE (Y/N)	NO
LOCATION CATEGORIZATION	LEADING EDGE OF BLADE
B2 WIDTH AT CENTER	0.33 mm
B2 HEIGHT AT CENTER	0.25 mm
DISTANCE FROM CENTER TO TOP-LEFT CORNER	0.20 mm
DISTANCE FROM CENTER TO TOP SIDE	0.12 mm
DISTANCE FROM CENTER OF TOP SIDE TO TOP-LEFT CORNER	0.16 mm
. . .	. . .

FIG. 3B

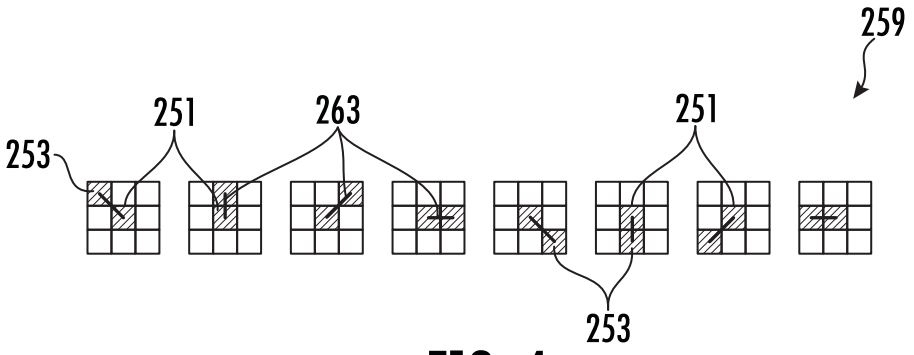


FIG. 4

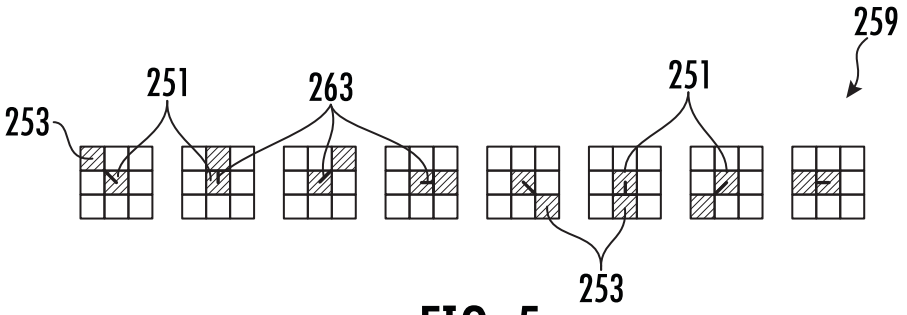


FIG. 5

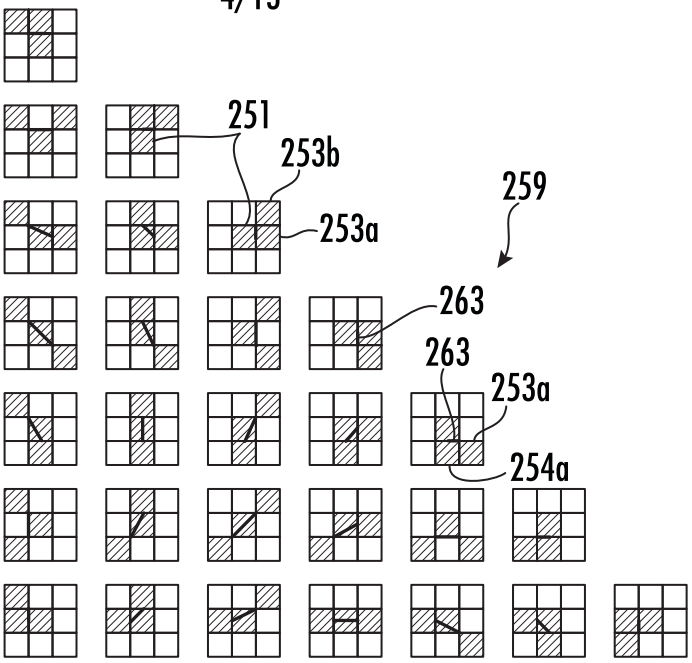


FIG. 6

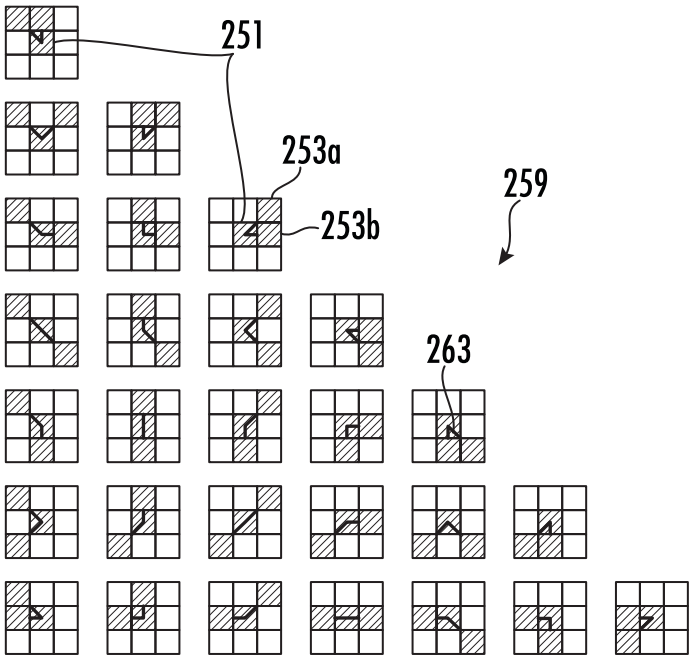


FIG. 7

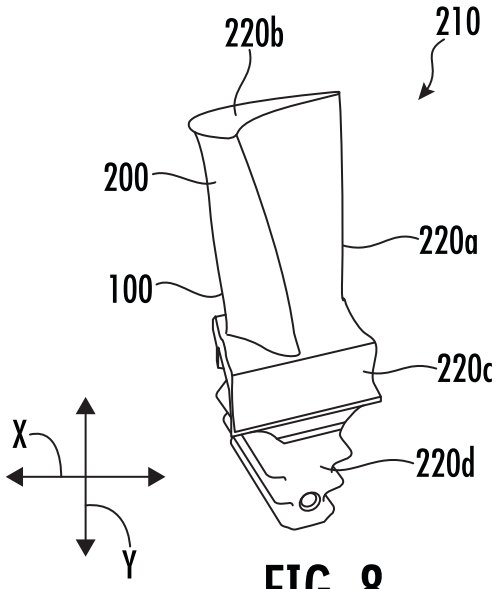

220b
210
200
220a
100
220c
X
220d
Y

FIG. 8

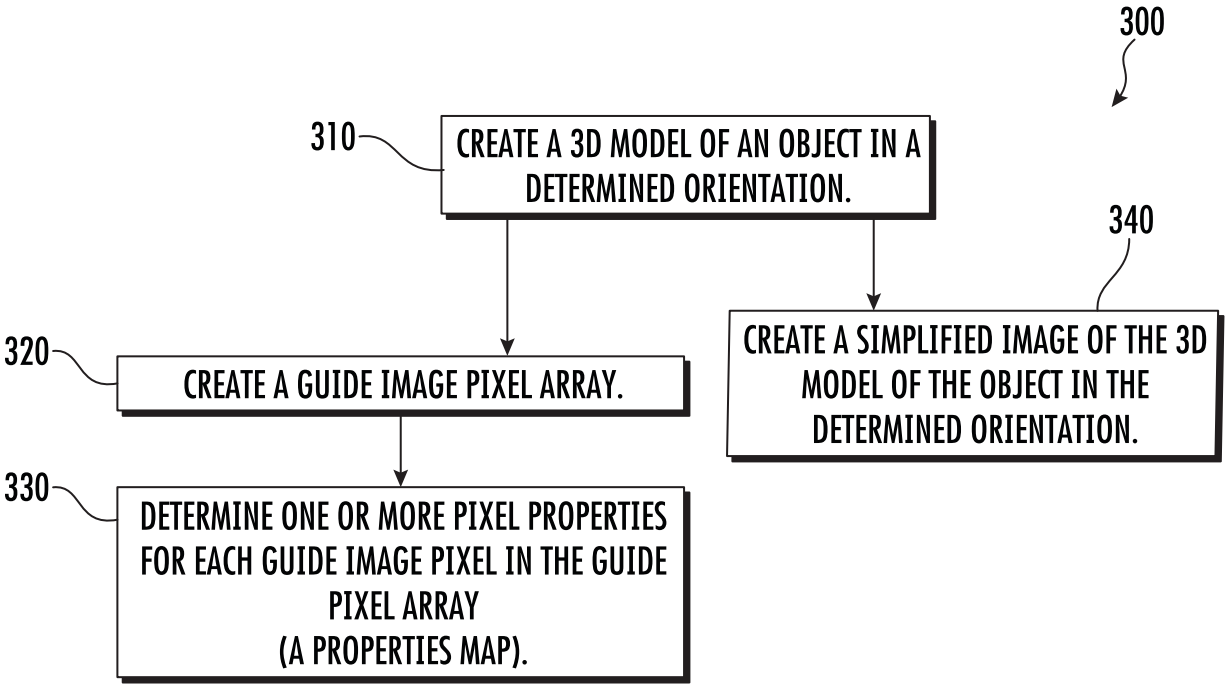

300
310
CREATE A 3D MODEL OF AN OBJECT IN A DETERMINED ORIENTATION.
340
320
CREATE A GUIDE IMAGE PIXEL ARRAY.
CREATE A SIMPLIFIED IMAGE OF THE 3D MODEL OF THE OBJECT IN THE DETERMINED ORIENTATION.
330
DETERMINE ONE OR MORE PIXEL PROPERTIES FOR EACH GUIDE IMAGE PIXEL IN THE GUIDE PIXEL ARRAY (A PROPERTIES MAP).

FIG. 9

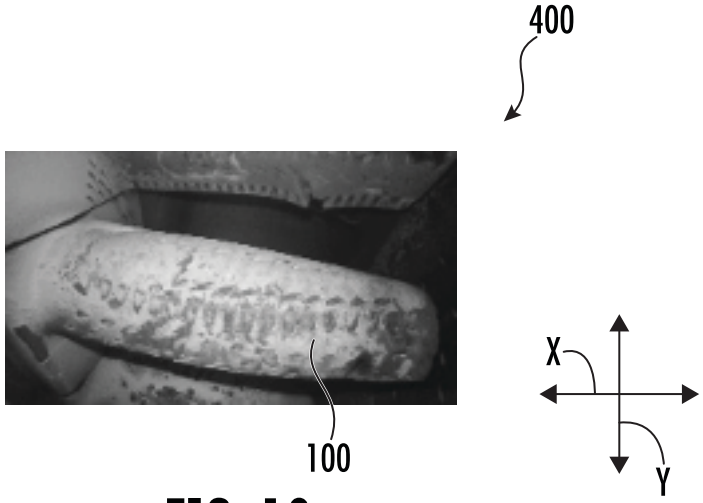


FIG. 10

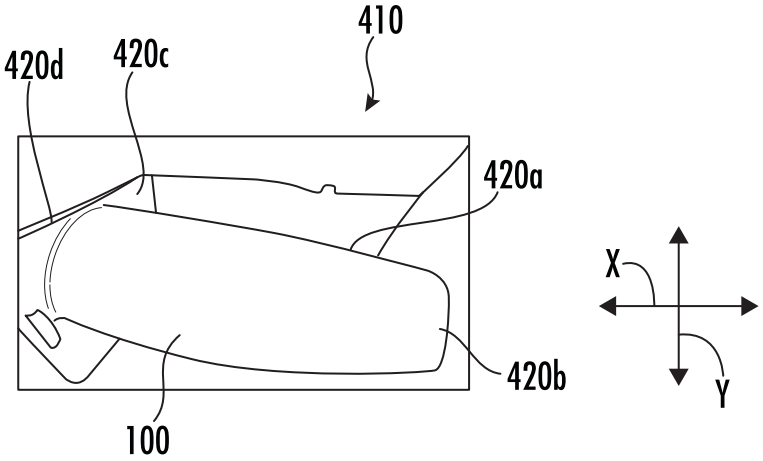


FIG. 11

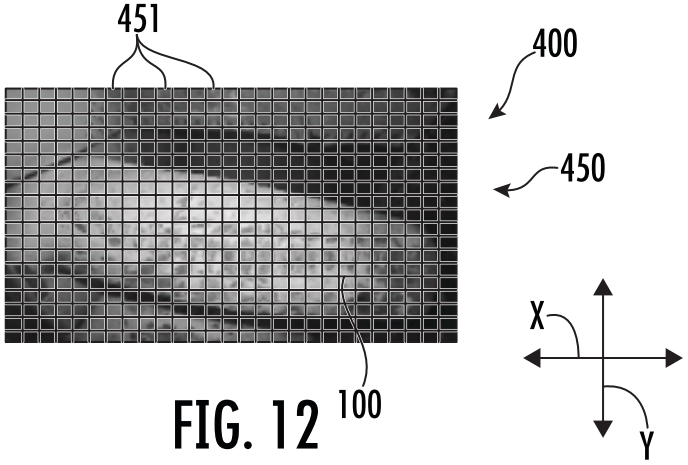


FIG. 12

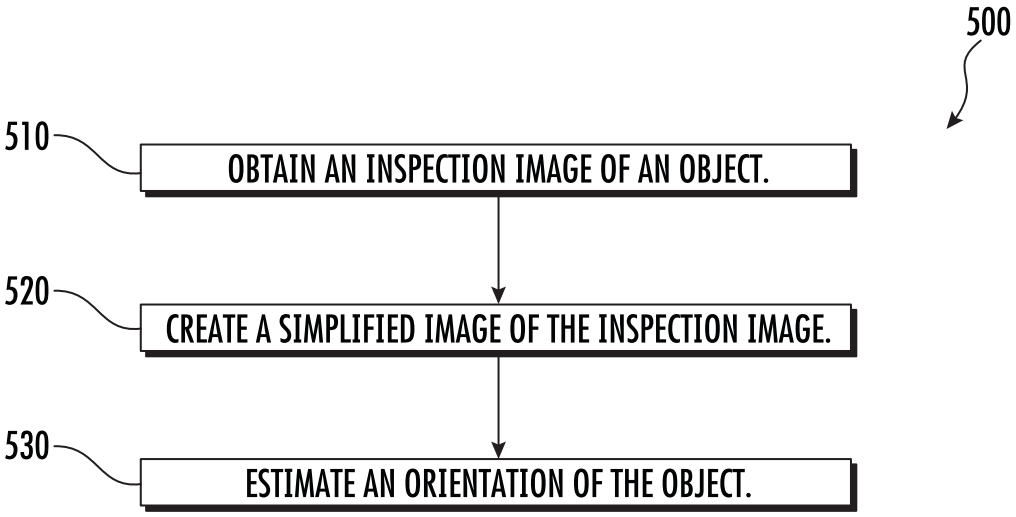

500
510
OBTAIN AN INSPECTION IMAGE OF AN OBJECT.
520
CREATE A SIMPLIFIED IMAGE OF THE INSPECTION IMAGE.
530
ESTIMATE AN ORIENTATION OF THE OBJECT.

FIG. 13

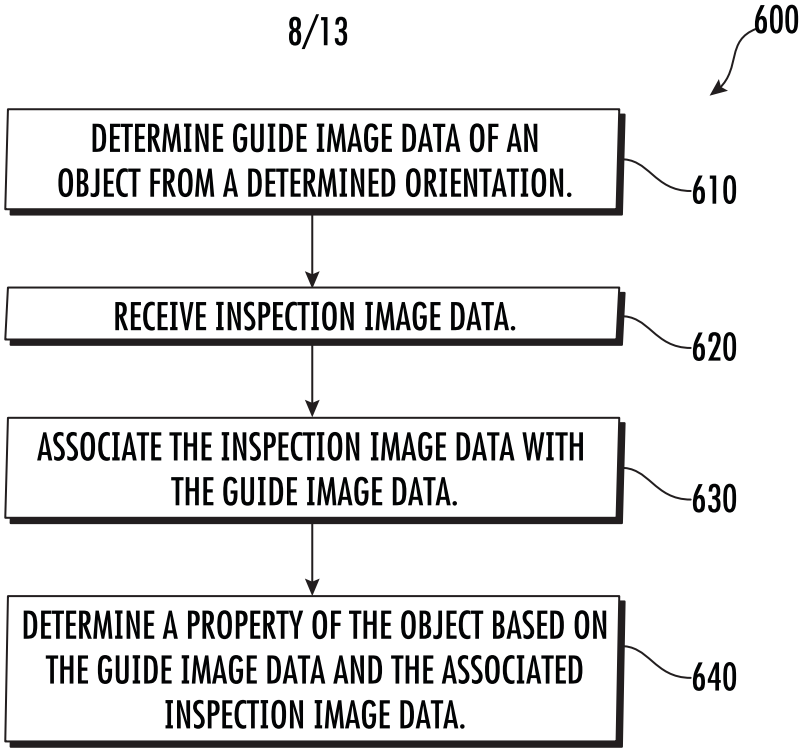

600
DETERMINE GUIDE IMAGE DATA OF AN OBJECT FROM A DETERMINED ORIENTATION.
610
RECEIVE INSPECTION IMAGE DATA.
620
ASSOCIATE THE INSPECTION IMAGE DATA WITH THE GUIDE IMAGE DATA.
630
DETERMINE A PROPERTY OF THE OBJECT BASED ON THE GUIDE IMAGE DATA AND THE ASSOCIATED INSPECTION IMAGE DATA.
640

FIG. 14

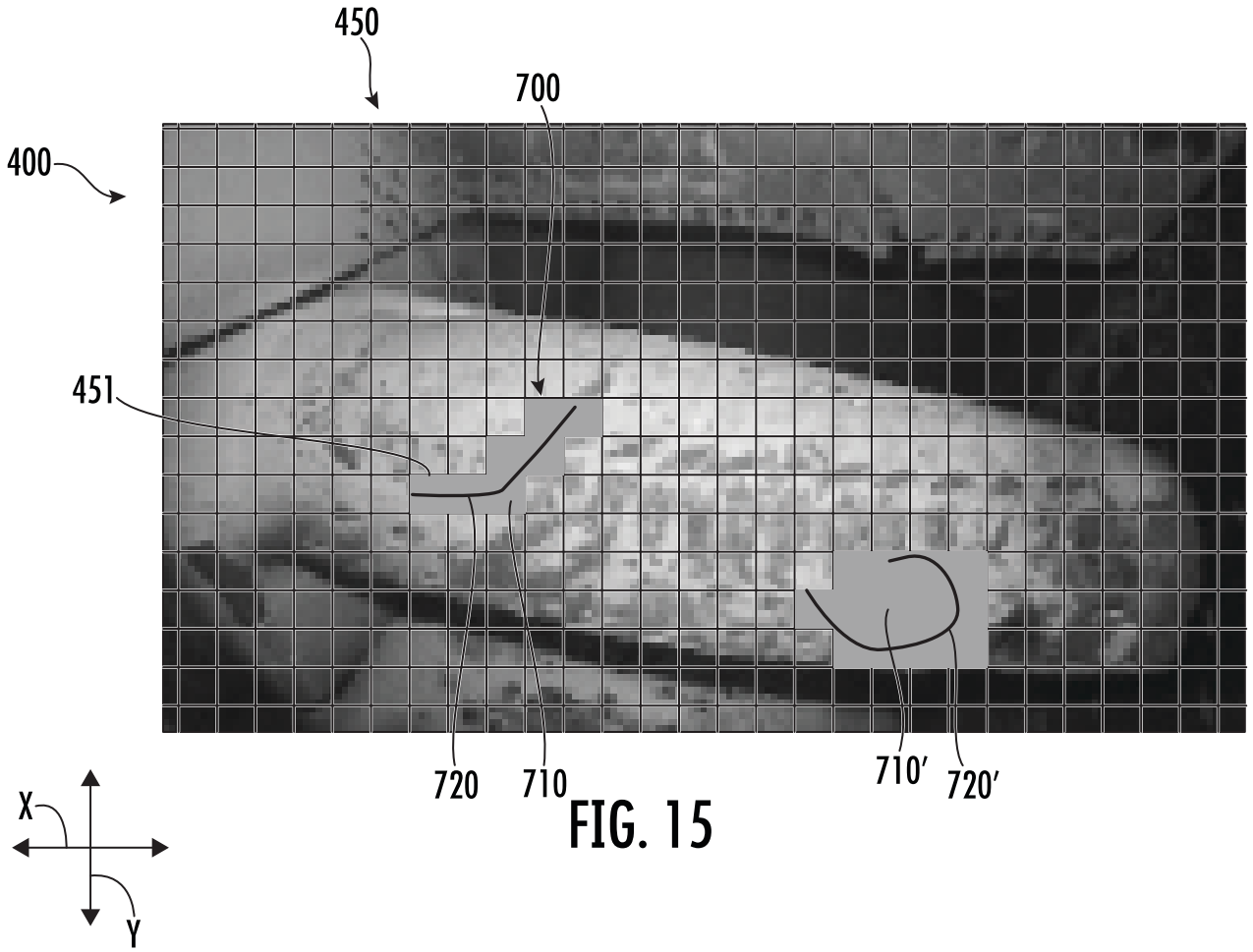

450
700
400
451
720
710
710′
720′
X
Y

FIG. 15

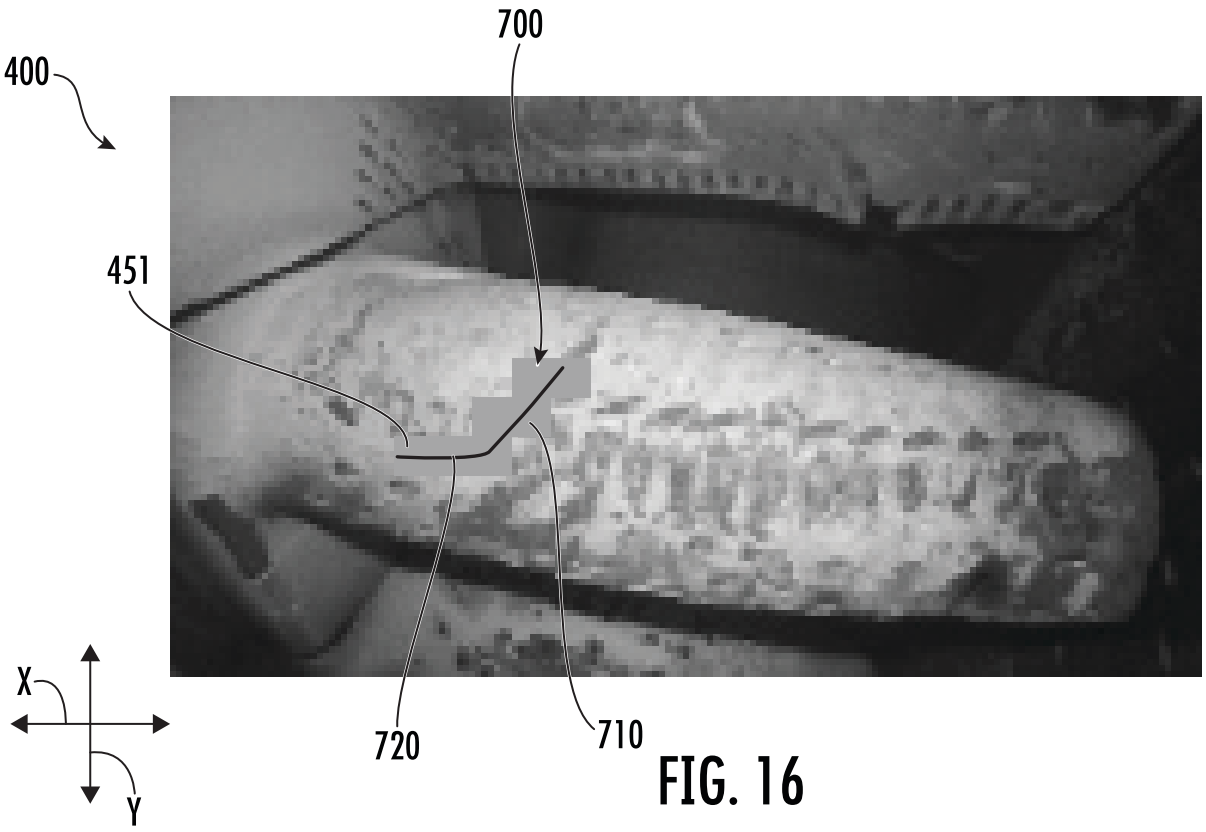


FIG. 16

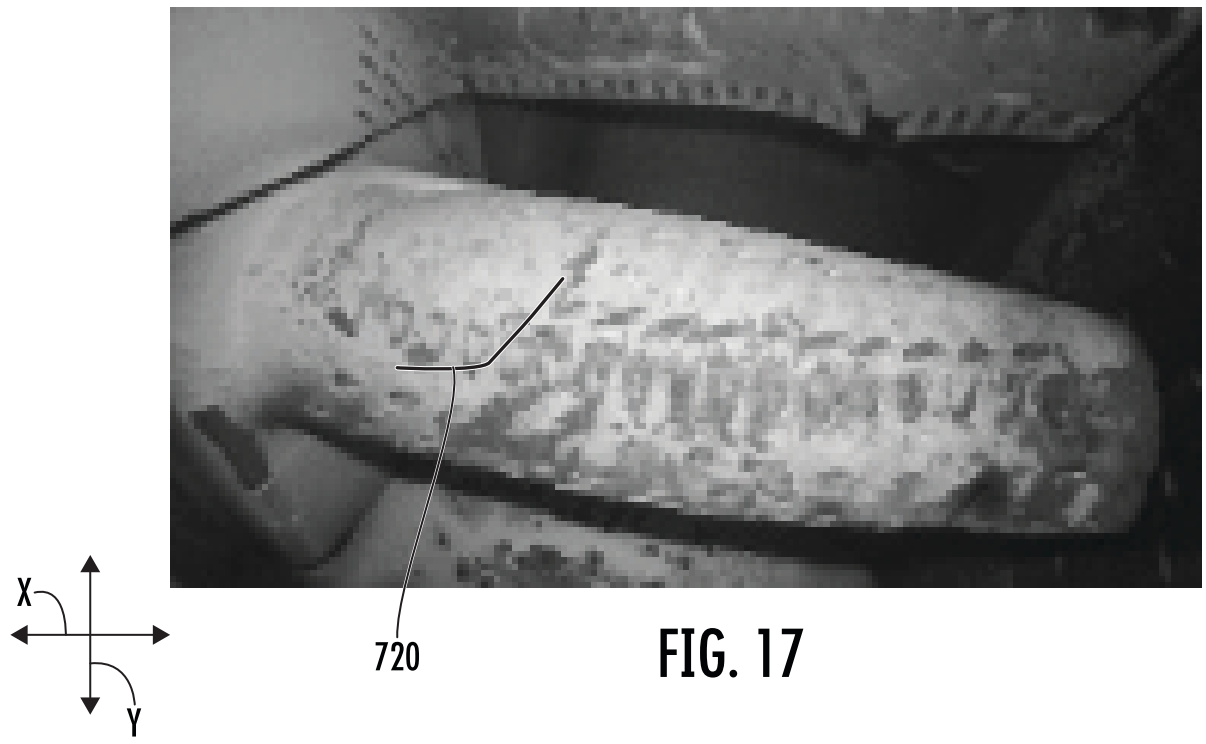


FIG. 17

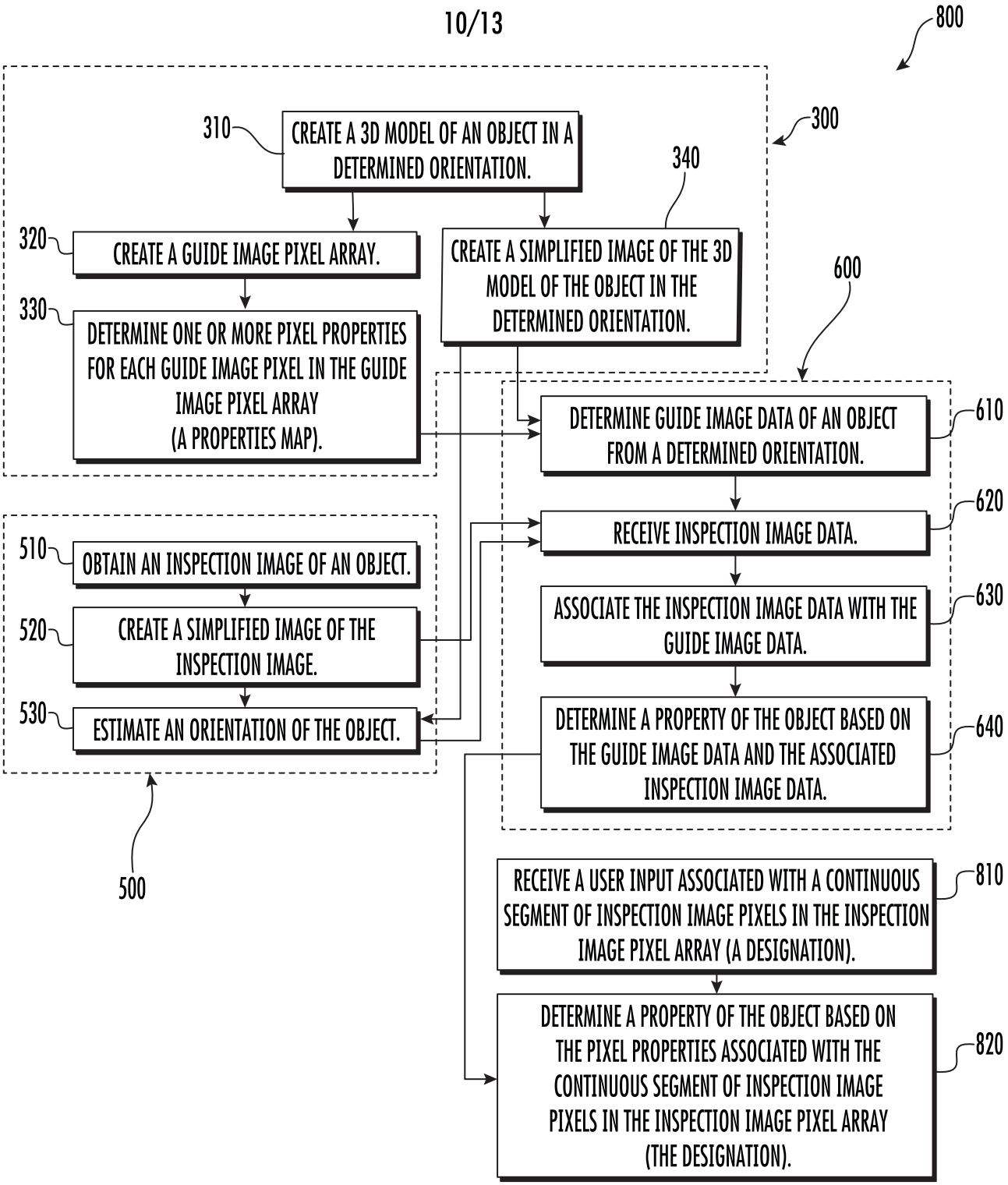

800
300
310
CREATE A 3D MODEL OF AN OBJECT IN A DETERMINED ORIENTATION.
340
320
CREATE A GUIDE IMAGE PIXEL ARRAY.
CREATE A SIMPLIFIED IMAGE OF THE 3D MODEL OF THE OBJECT IN THE DETERMINED ORIENTATION.
600
330
DETERMINE ONE OR MORE PIXEL PROPERTIES FOR EACH GUIDE IMAGE PIXEL IN THE GUIDE IMAGE PIXEL ARRAY (A PROPERTIES MAP).
DETERMINE GUIDE IMAGE DATA OF AN OBJECT FROM A DETERMINED ORIENTATION.
610
RECEIVE INSPECTION IMAGE DATA.
620
510
OBTAIN AN INSPECTION IMAGE OF AN OBJECT.
ASSOCIATE THE INSPECTION IMAGE DATA WITH THE GUIDE IMAGE DATA.
630
520
CREATE A SIMPLIFIED IMAGE OF THE INSPECTION IMAGE.
DETERMINE A PROPERTY OF THE OBJECT BASED ON THE GUIDE IMAGE DATA AND THE ASSOCIATED INSPECTION IMAGE DATA.
640
530
ESTIMATE AN ORIENTATION OF THE OBJECT.
500
RECEIVE A USER INPUT ASSOCIATED WITH A CONTINUOUS SEGMENT OF INSPECTION IMAGE PIXELS IN THE INSPECTION IMAGE PIXEL ARRAY (A DESIGNATION).
810
DETERMINE A PROPERTY OF THE OBJECT BASED ON THE PIXEL PROPERTIES ASSOCIATED WITH THE CONTINUOUS SEGMENT OF INSPECTION IMAGE PIXELS IN THE INSPECTION IMAGE PIXEL ARRAY (THE DESIGNATION).
820

FIG. 18

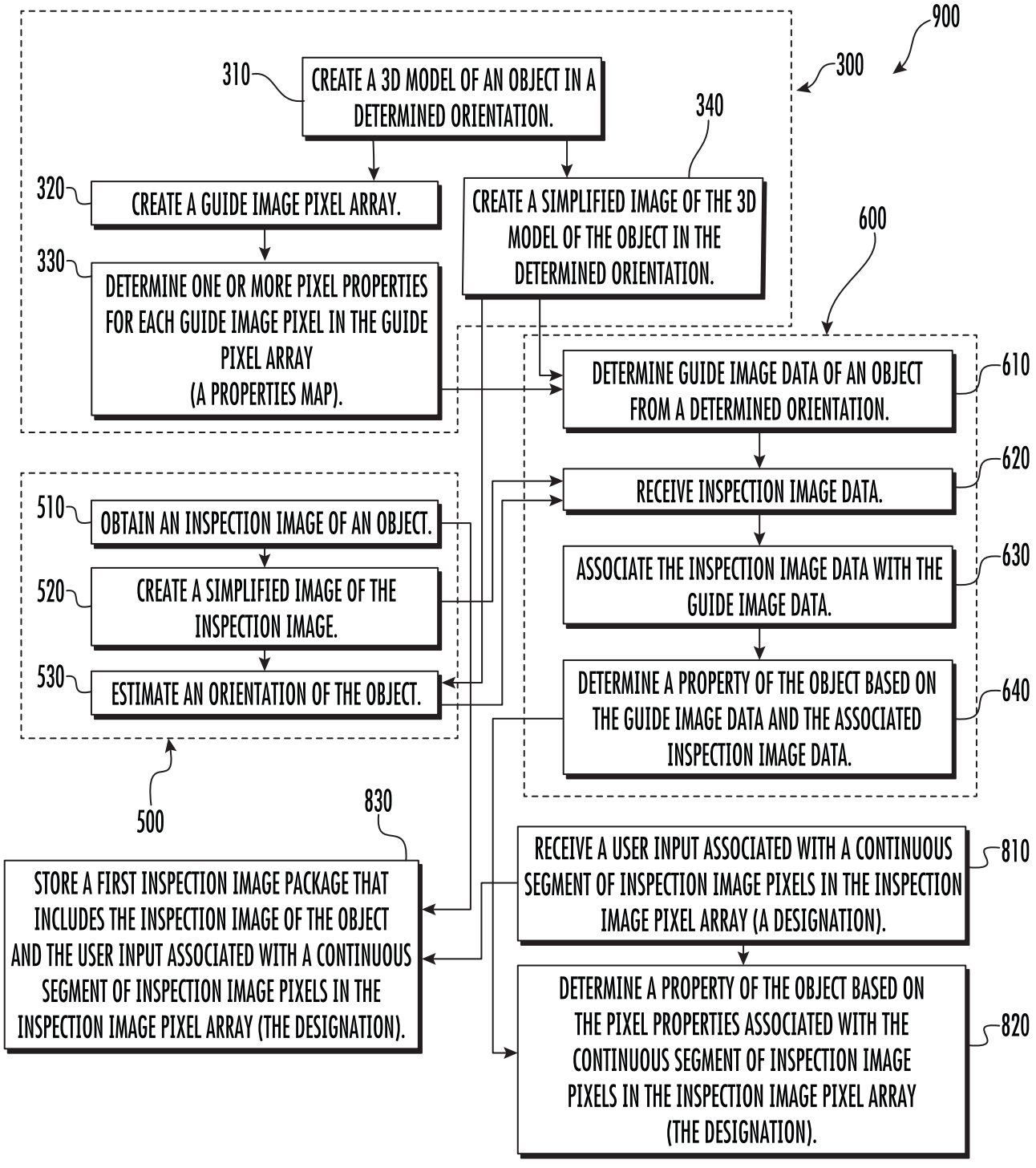

900
300
310
CREATE A 3D MODEL OF AN OBJECT IN A DETERMINED ORIENTATION.
340
320
CREATE A GUIDE IMAGE PIXEL ARRAY.
CREATE A SIMPLIFIED IMAGE OF THE 3D MODEL OF THE OBJECT IN THE DETERMINED ORIENTATION.
600
330
DETERMINE ONE OR MORE PIXEL PROPERTIES FOR EACH GUIDE IMAGE PIXEL IN THE GUIDE PIXEL ARRAY (A PROPERTIES MAP).
DETERMINE GUIDE IMAGE DATA OF AN OBJECT FROM A DETERMINED ORIENTATION.
610
RECEIVE INSPECTION IMAGE DATA.
620
510
OBTAIN AN INSPECTION IMAGE OF AN OBJECT.
ASSOCIATE THE INSPECTION IMAGE DATA WITH THE GUIDE IMAGE DATA.
630
520
CREATE A SIMPLIFIED IMAGE OF THE INSPECTION IMAGE.
530
ESTIMATE AN ORIENTATION OF THE OBJECT.
DETERMINE A PROPERTY OF THE OBJECT BASED ON THE GUIDE IMAGE DATA AND THE ASSOCIATED INSPECTION IMAGE DATA.
640
500
830
RECEIVE A USER INPUT ASSOCIATED WITH A CONTINUOUS SEGMENT OF INSPECTION IMAGE PIXELS IN THE INSPECTION IMAGE PIXEL ARRAY (A DESIGNATION).
810
STORE A FIRST INSPECTION IMAGE PACKAGE THAT INCLUDES THE INSPECTION IMAGE OF THE OBJECT AND THE USER INPUT ASSOCIATED WITH A CONTINUOUS SEGMENT OF INSPECTION IMAGE PIXELS IN THE INSPECTION IMAGE PIXEL ARRAY (THE DESIGNATION).
DETERMINE A PROPERTY OF THE OBJECT BASED ON THE PIXEL PROPERTIES ASSOCIATED WITH THE CONTINUOUS SEGMENT OF INSPECTION IMAGE PIXELS IN THE INSPECTION IMAGE PIXEL ARRAY (THE DESIGNATION).
820

FIG. 19

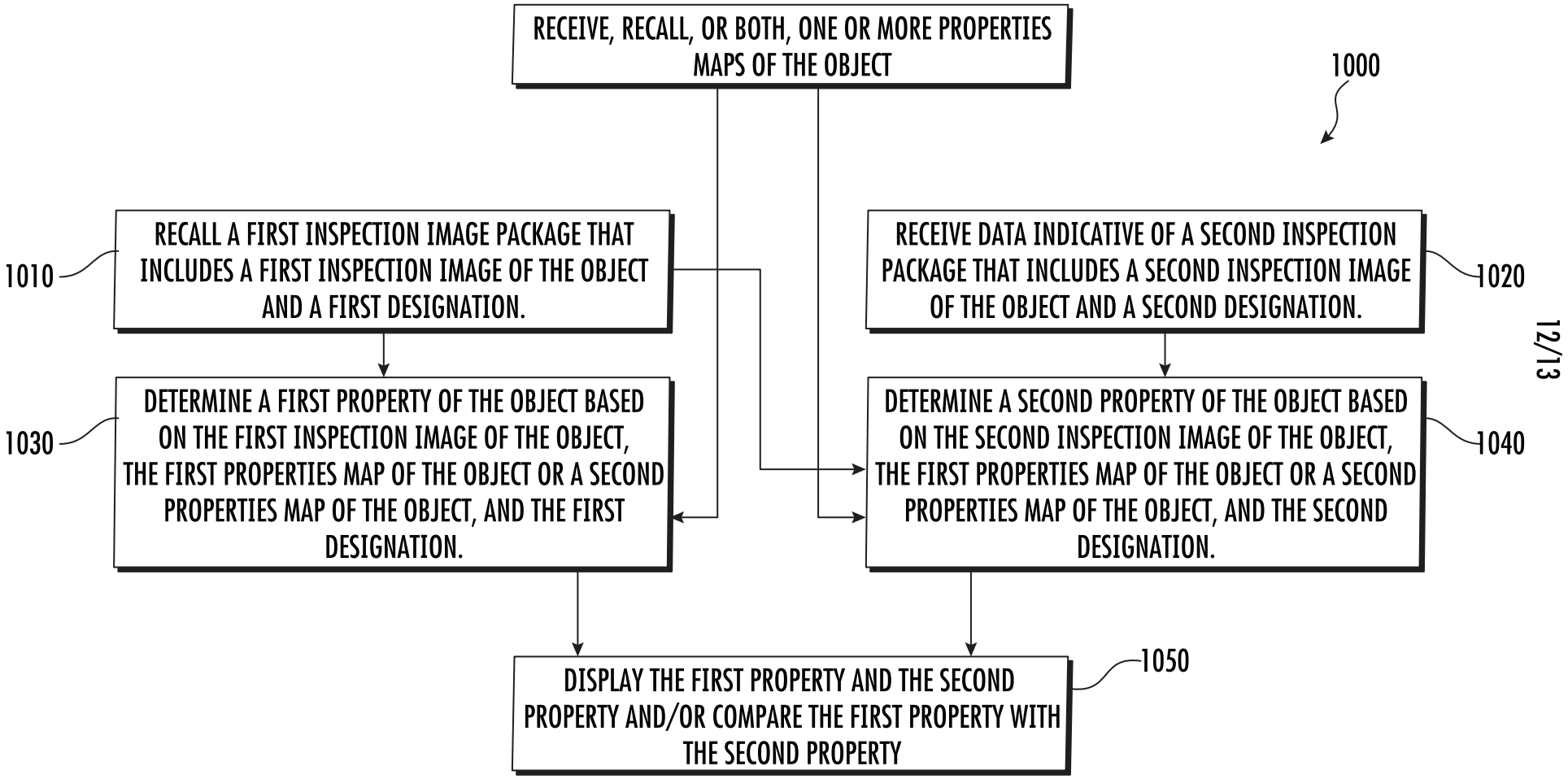

RECEIVE, RECALL, OR BOTH, ONE OR MORE PROPERTIES MAPS OF THE OBJECT
1000
RECALL A FIRST INSPECTION IMAGE PACKAGE THAT INCLUDES A FIRST INSPECTION IMAGE OF THE OBJECT AND A FIRST DESIGNATION.
1010
RECEIVE DATA INDICATIVE OF A SECOND INSPECTION PACKAGE THAT INCLUDES A SECOND INSPECTION IMAGE OF THE OBJECT AND A SECOND DESIGNATION.
1020
DETERMINE A FIRST PROPERTY OF THE OBJECT BASED ON THE FIRST INSPECTION IMAGE OF THE OBJECT, THE FIRST PROPERTIES MAP OF THE OBJECT OR A SECOND PROPERTIES MAP OF THE OBJECT, AND THE FIRST DESIGNATION.
1030
DETERMINE A SECOND PROPERTY OF THE OBJECT BASED ON THE SECOND INSPECTION IMAGE OF THE OBJECT, THE FIRST PROPERTIES MAP OF THE OBJECT OR A SECOND PROPERTIES MAP OF THE OBJECT, AND THE SECOND DESIGNATION.
1040
DISPLAY THE FIRST PROPERTY AND THE SECOND PROPERTY AND/OR COMPARE THE FIRST PROPERTY WITH THE SECOND PROPERTY
1050

FIG. 20

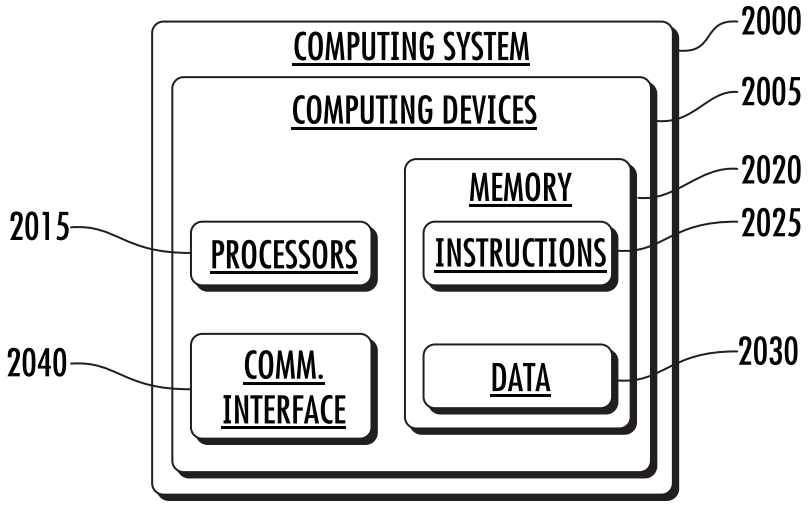

COMPUTING SYSTEM
2000
COMPUTING DEVICES
2005
MEMORY
2020
2015
PROCESSORS
INSTRUCTIONS
2025
2040
COMM. INTERFACE
DATA
2030

FIG. 21

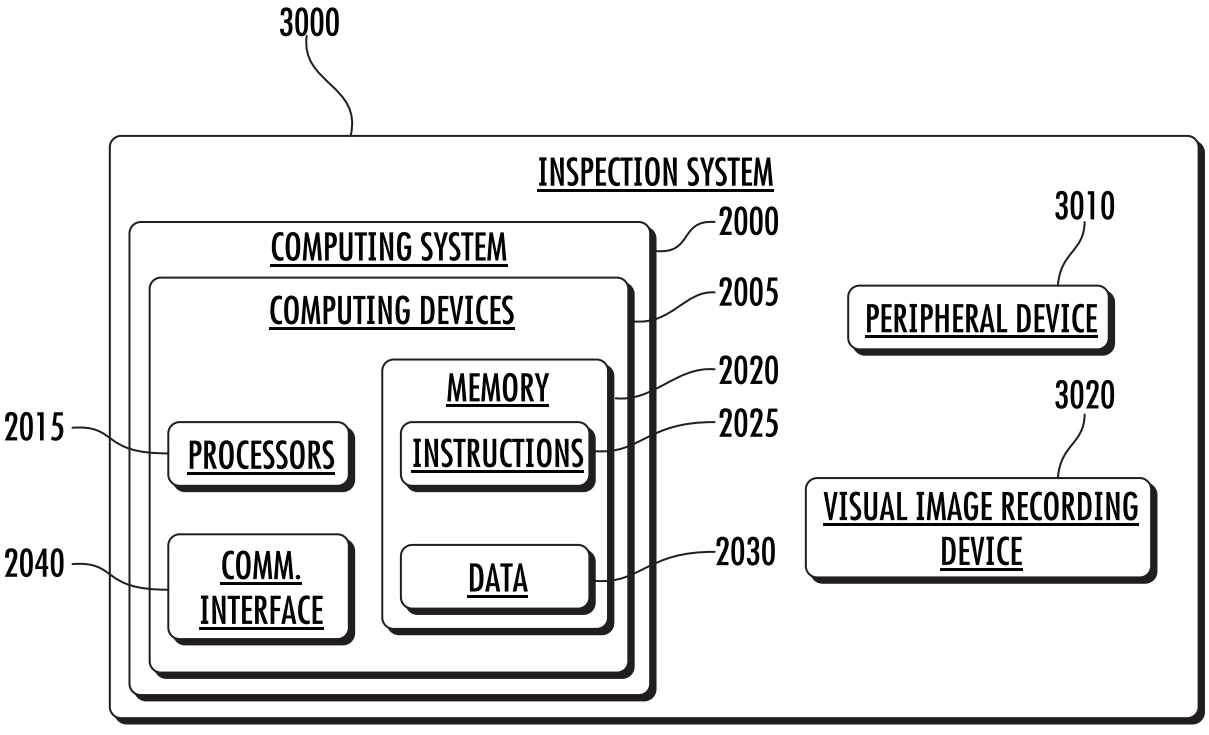

3000
INSPECTION SYSTEM
COMPUTING SYSTEM
2000
3010
COMPUTING DEVICES
2005
PERIPHERAL DEVICE
MEMORY
2020
3020
2015
PROCESSORS
INSTRUCTIONS
2025
VISUAL IMAGE RECORDING DEVICE
2040
COMM. INTERFACE
DATA
2030

FIG. 22