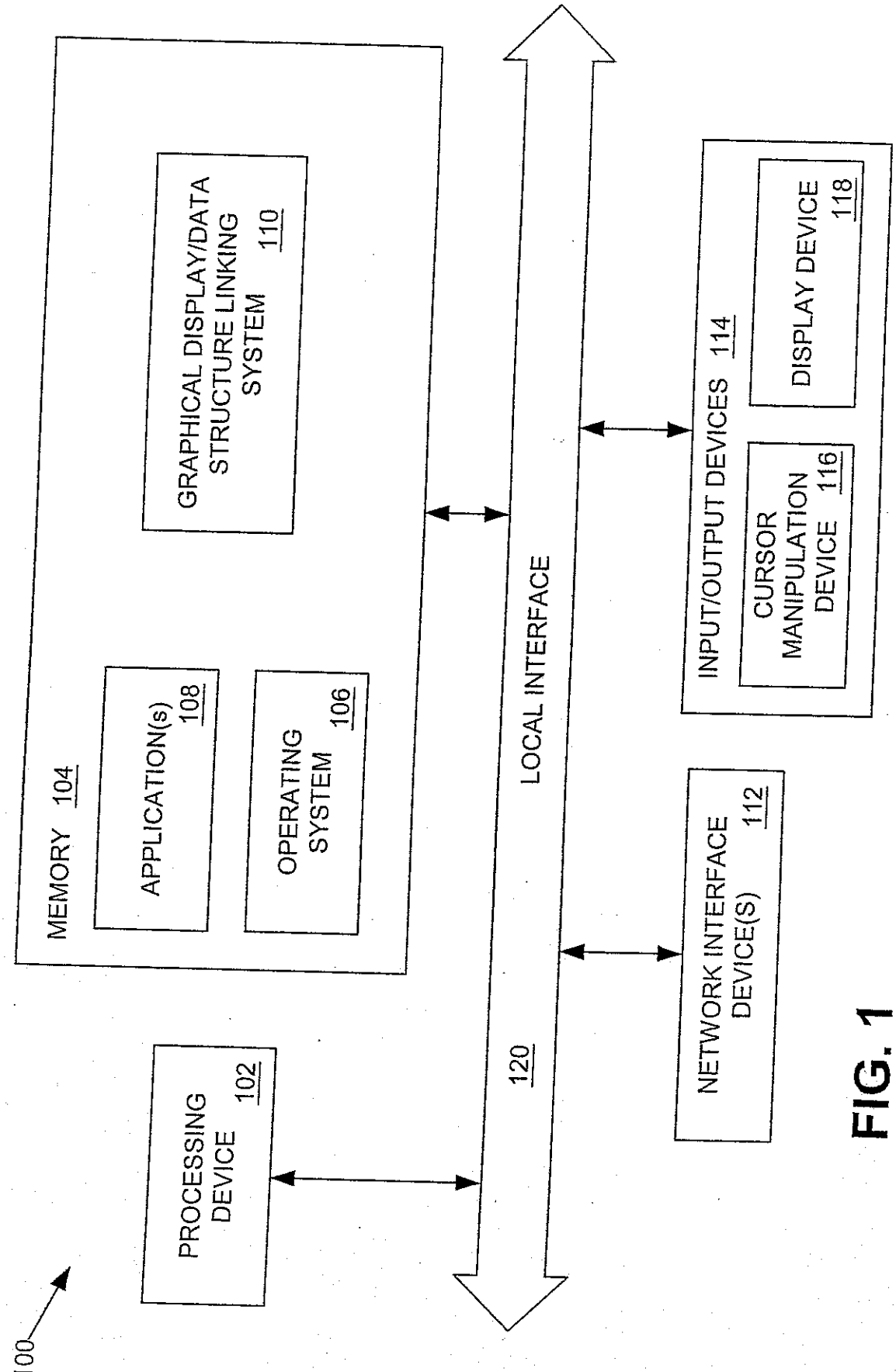

100
PROCESSING DEVICE 102
MEMORY 104
APPLICATION(s) 108
OPERATING SYSTEM 106
GRAPHICAL DISPLAY/DATA STRUCTURE LINKING SYSTEM 110
LOCAL INTERFACE
120
NETWORK INTERFACE DEVICE(S) 112
INPUT/OUTPUT DEVICES 114
CURSOR MANIPULATION DEVICE 116
DISPLAY DEVICE 118

FIG. 1

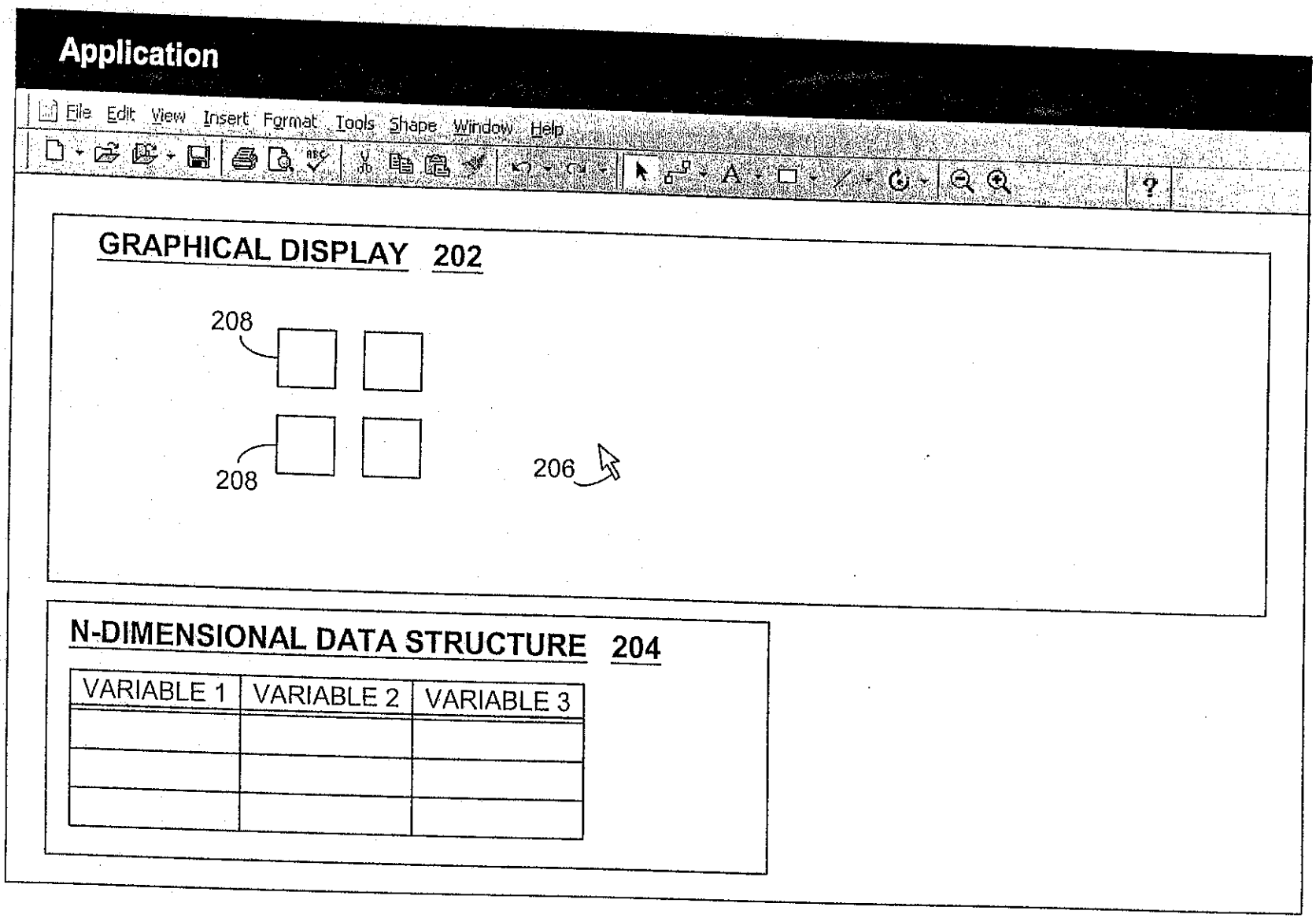


FIG. 2

26/05/2006

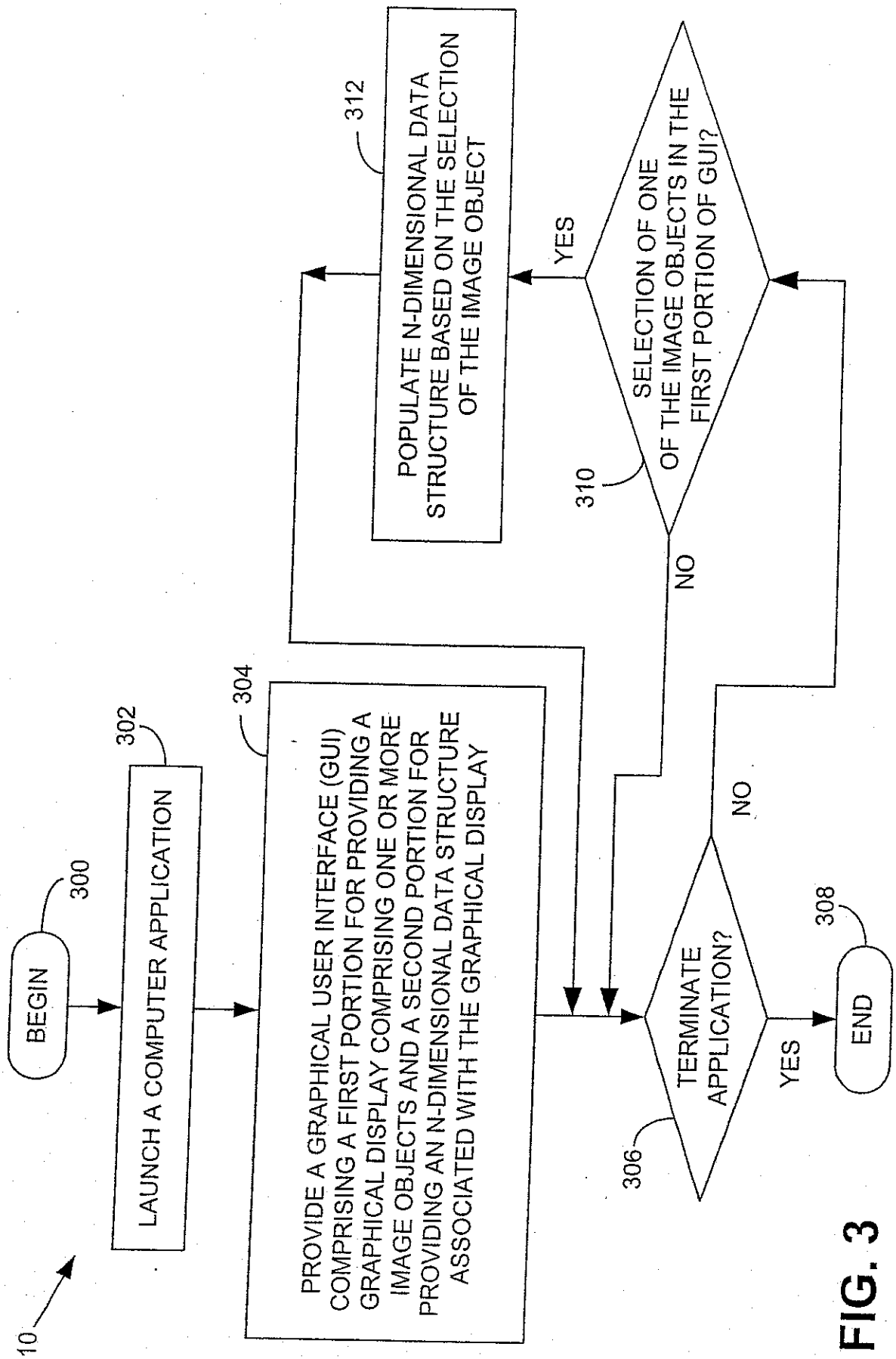

110
BEGIN
300
LAUNCH A COMPUTER APPLICATION
302
PROVIDE A GRAPHICAL USER INTERFACE (GUI) COMPRISING A FIRST PORTION FOR PROVIDING A GRAPHICAL DISPLAY COMPRISING ONE OR MORE IMAGE OBJECTS AND A SECOND PORTION FOR PROVIDING AN N-DIMENSIONAL DATA STRUCTURE ASSOCIATED WITH THE GRAPHICAL DISPLAY
304
TERMINATE APPLICATION?
306
YES
NO
END
308
SELECTION OF ONE OF THE IMAGE OBJECTS IN THE FIRST PORTION OF GUI?
310
YES
NO
POPULATE N-DIMENSIONAL DATA STRUCTURE BASED ON THE SELECTION OF THE IMAGE OBJECT
312

FIG. 3

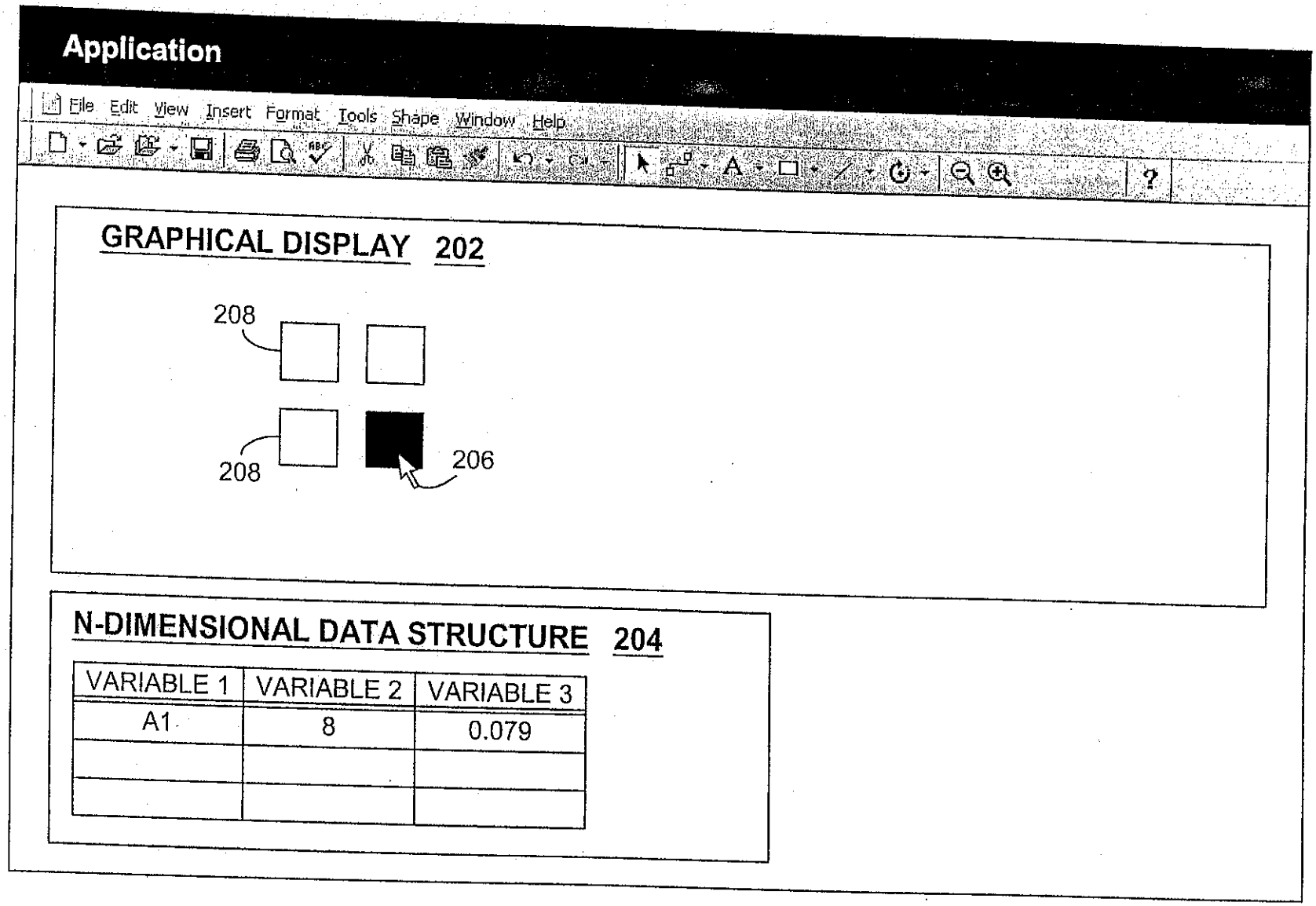


FIG. 4

26/05/2006

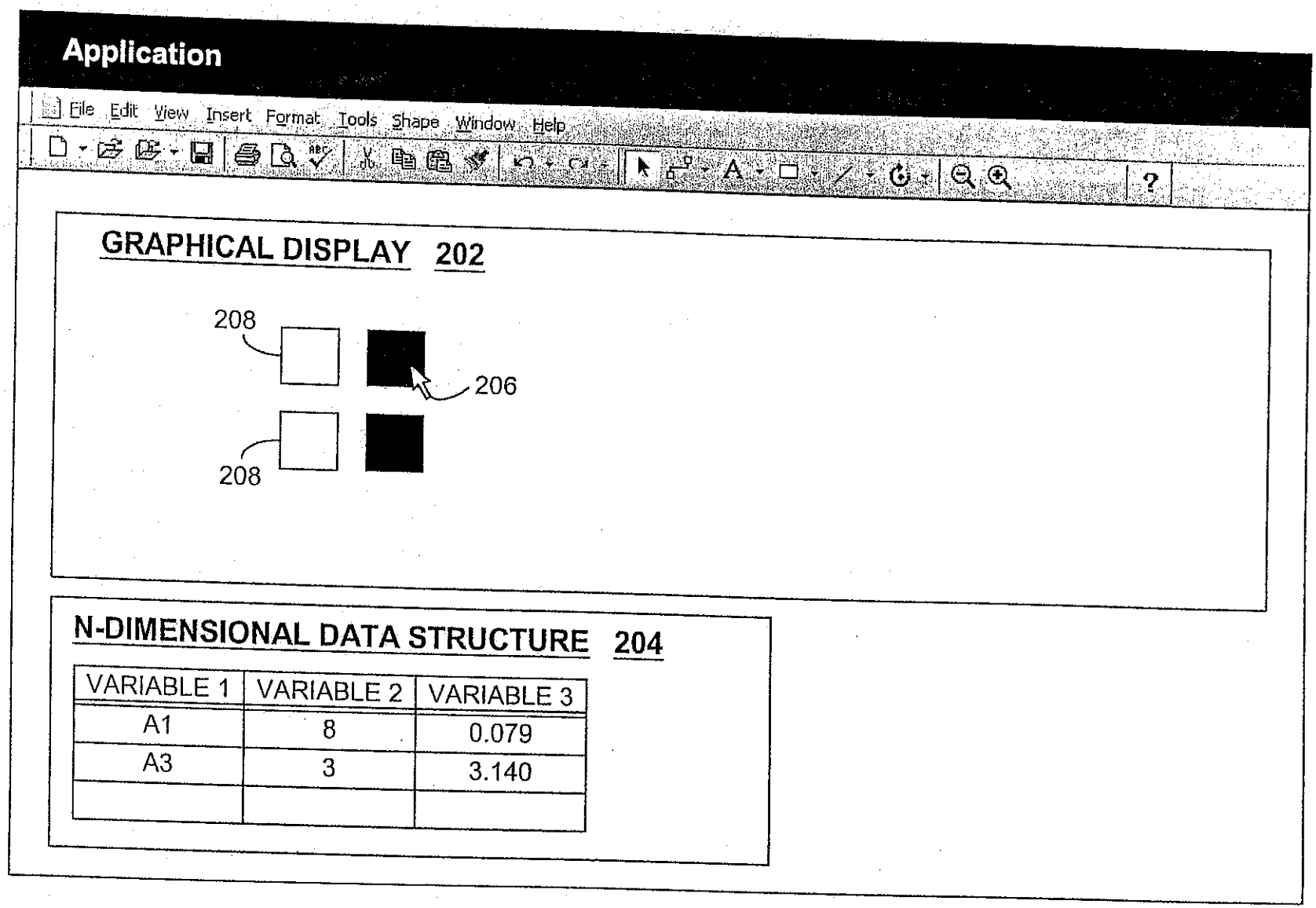


FIG. 5

26/05/2006

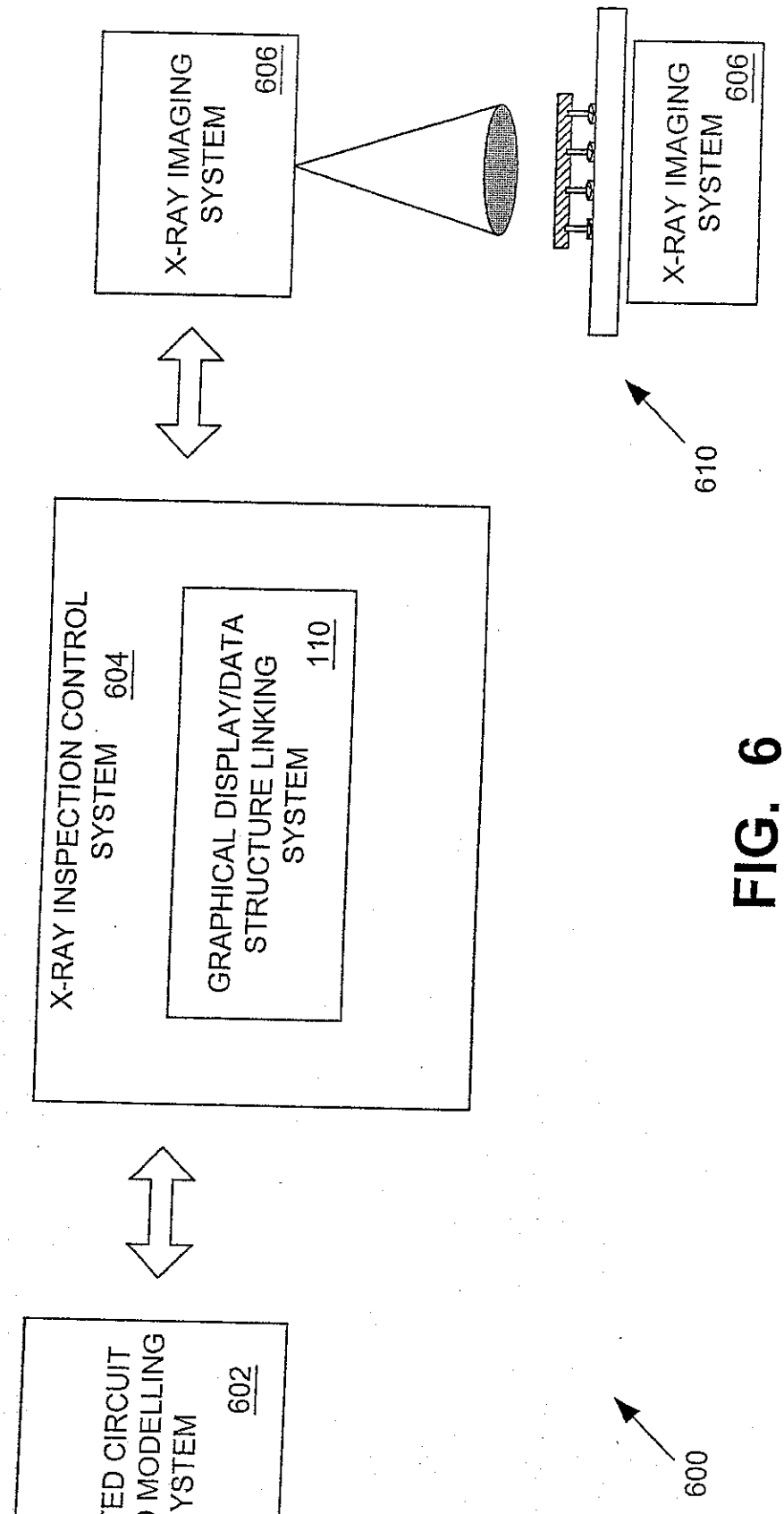

X-RAY IMAGING SYSTEM
606
X-RAY IMAGING SYSTEM
606
610
X-RAY INSPECTION CONTROL SYSTEM
604
GRAPHICAL DISPLAY/DATA STRUCTURE LINKING SYSTEM
110
PRINTED CIRCUIT BOARD MODELLING SYSTEM
602
600

FIG. 6

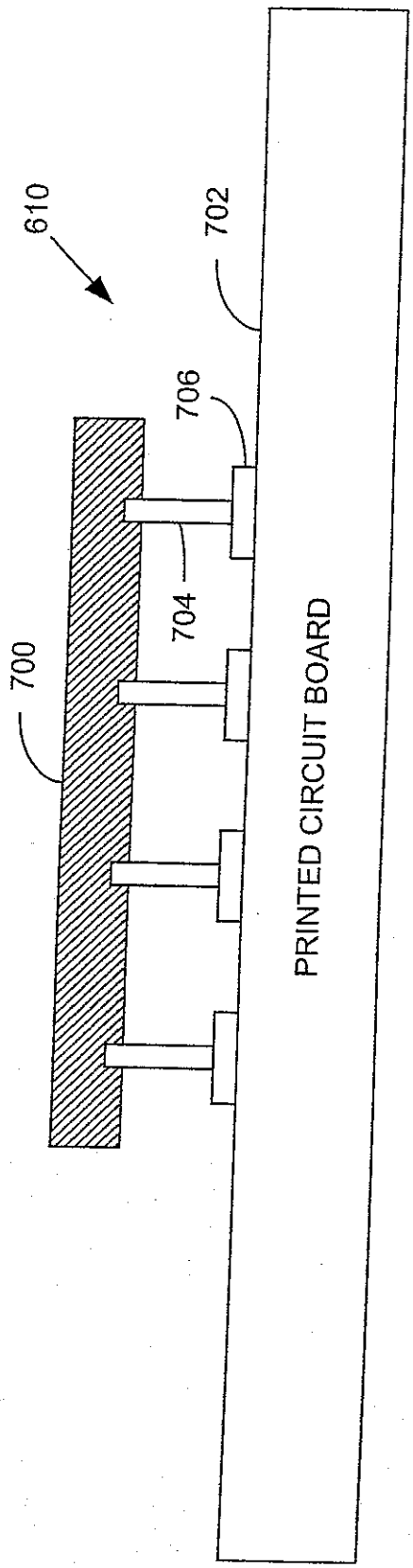

610
702
706
704
700
PRINTED CIRCUIT BOARD

FIG. 7

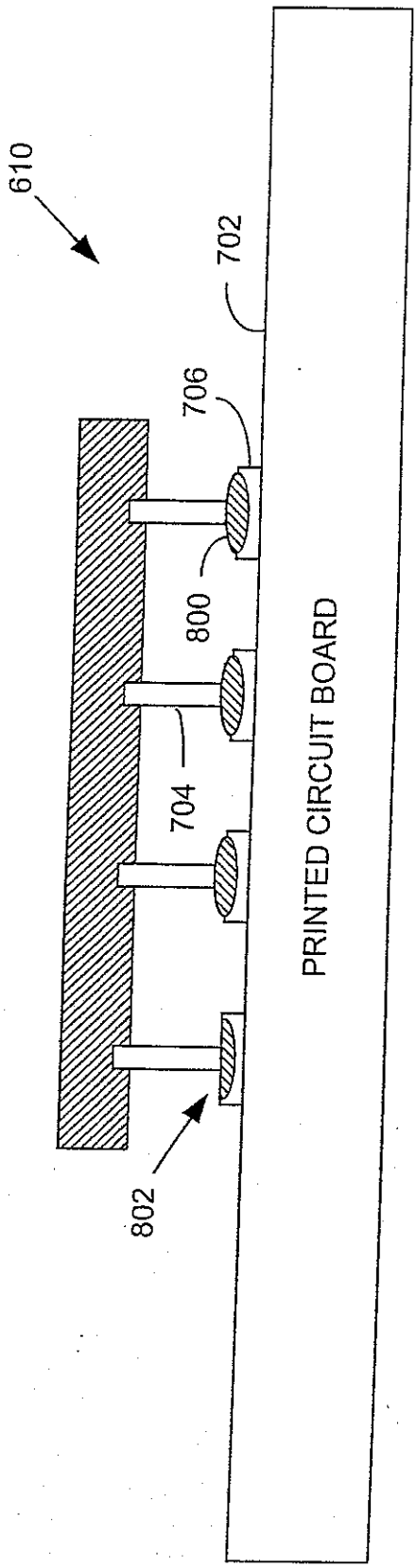

610
702
706
800
704
802
PRINTED CIRCUIT BOARD

FIG. 8

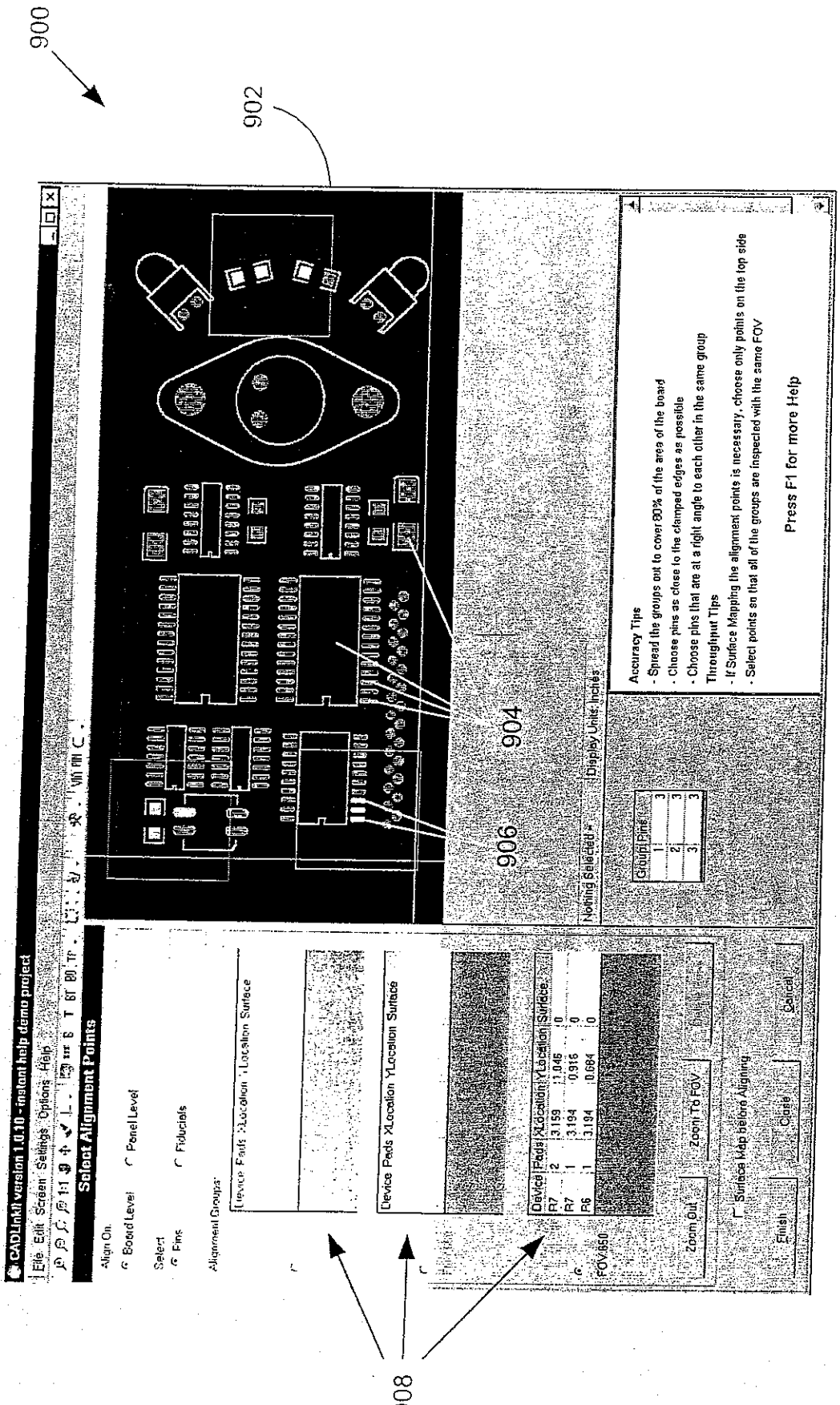

900
902
904
906
908
CADLink® version 1.0.10 - instant help demo project
File Edit Screen Settings Options Help
Select Alignment Points
Align On
Board Level
Panel Level
Select
Fine
Fiducials
Alignment Groups:
Device Pads XLocation YLocation Surface
Device Pads XLocation YLocation Surface
Device Pads XLocation YLocation Surface
R7 2 3.159 1.046 0
R7 1 3.194 0.916 0
R6 1 3.194 0.084 0
FOV 650
Zoom Out
Zoom To FOV
Surface Map before Aligning
Finish
Close
Cancel
Nothing Selected
Display Units: Inches
Group Pins
1 3
2 3
3 3
Accuracy Tips
- Spread the groups out to cover 80% of the area of the board
- Choose pins as close to the clamped edges as possible
- Choose pins that are at a right angle to each other in the same group
Throughput Tips
- If Surface Mapping the alignment points is necessary, choose only points on the top side
- Select points so that all of the groups are inspected with the same FOV
Press F1 for more Help

FIG. 9