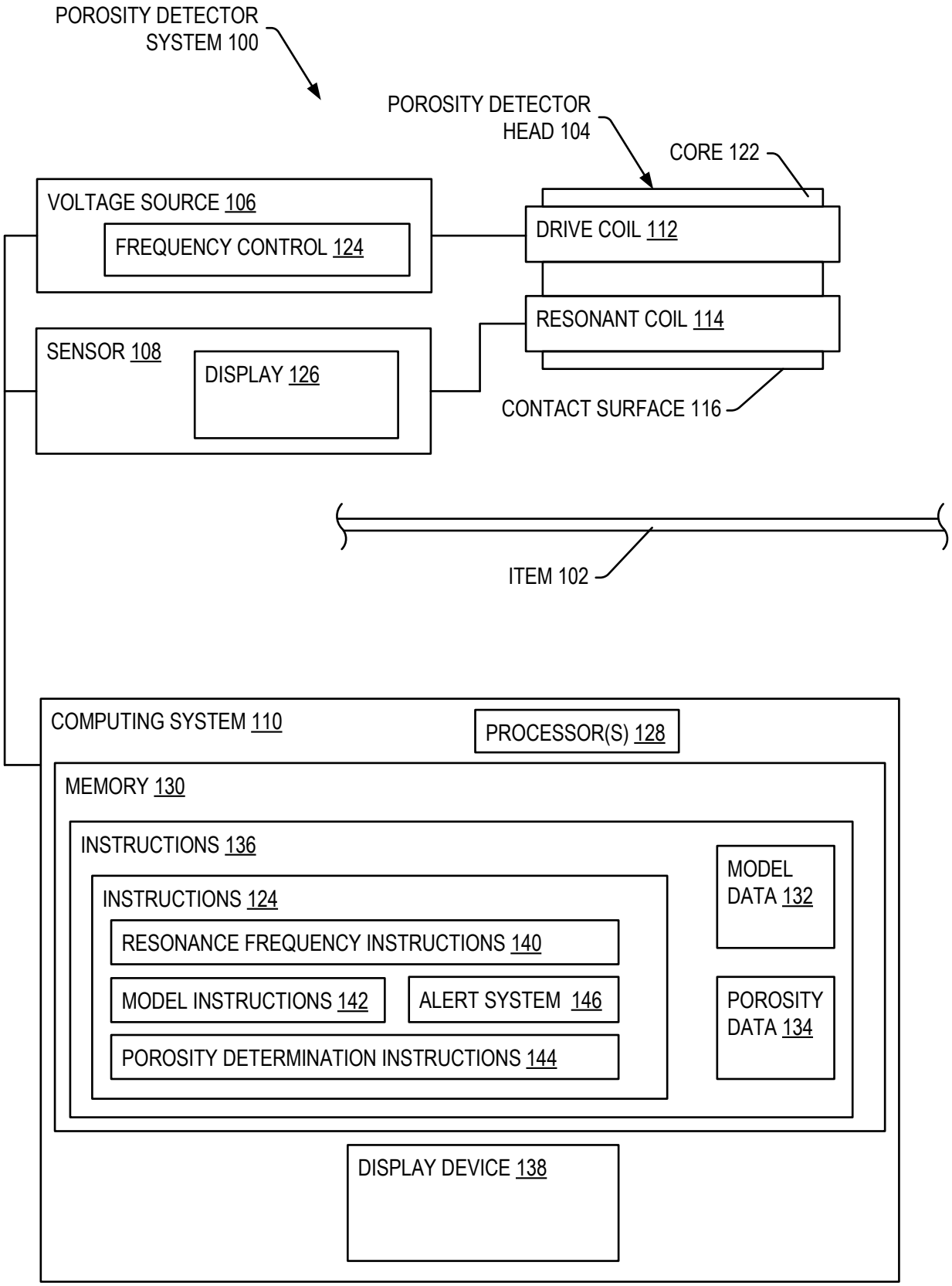

POROSITY DETECTOR SYSTEM 100
POROSITY DETECTOR HEAD 104
CORE 122
VOLTAGE SOURCE 106
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DRIVE COIL 112
RESONANT COIL 114
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MODEL INSTRUCTIONS 142
ALERT SYSTEM 146
POROSITY DETERMINATION INSTRUCTIONS 144
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FIG. 1

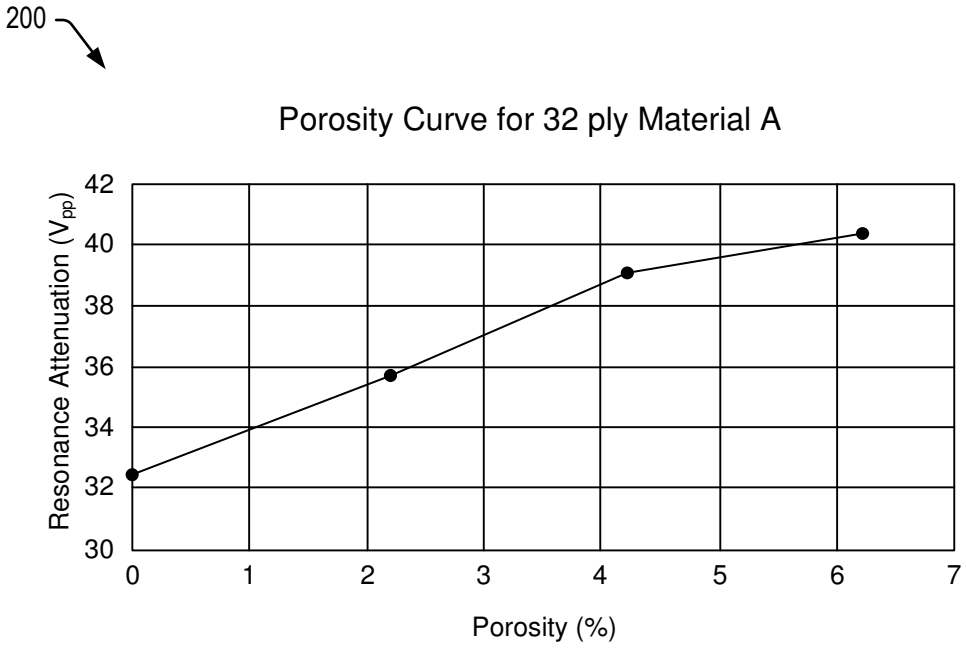

200
Porosity Curve for 32 ply Material A
Resonance Attenuation (V_{pp})
42
40
38
36
34
32
30
0
1
2
3
4
5
6
7
Porosity (%)

FIG. 2

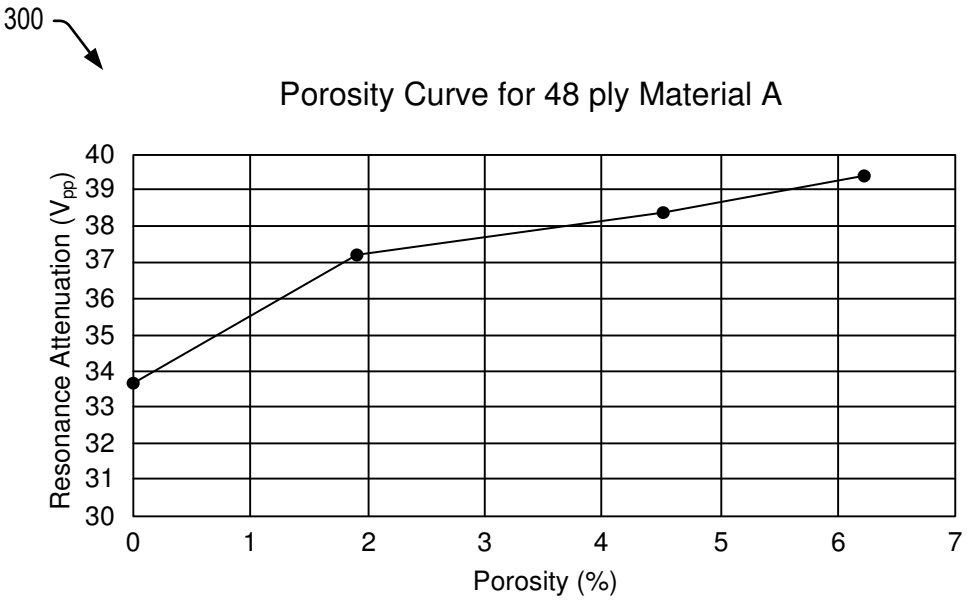

300
Porosity Curve for 48 ply Material A
Resonance Attenuation (V_{pp})
40
39
38
37
36
35
34
33
32
31
30
0
1
2
3
4
5
6
7
Porosity (%)

FIG. 3

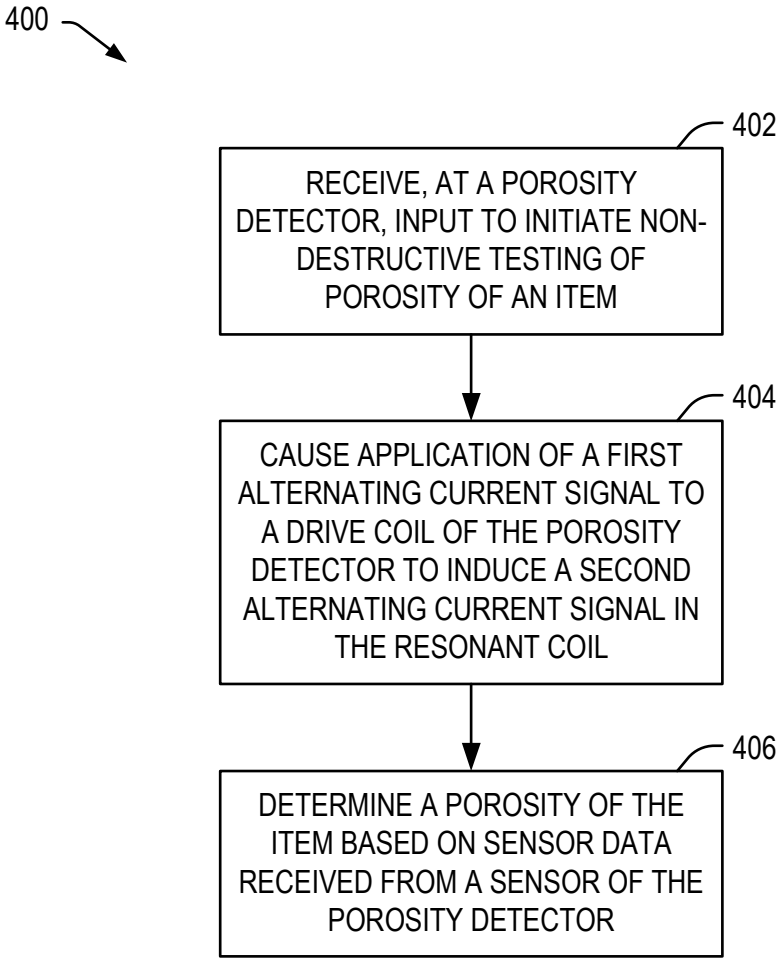

400
402
RECEIVE, AT A POROSITY DETECTOR, INPUT TO INITIATE NON-DESTRUCTIVE TESTING OF POROSITY OF AN ITEM
404
CAUSE APPLICATION OF A FIRST ALTERNATING CURRENT SIGNAL TO A DRIVE COIL OF THE POROSITY DETECTOR TO INDUCE A SECOND ALTERNATING CURRENT SIGNAL IN THE RESONANT COIL
406
DETERMINE A POROSITY OF THE ITEM BASED ON SENSOR DATA RECEIVED FROM A SENSOR OF THE POROSITY DETECTOR

FIG. 4

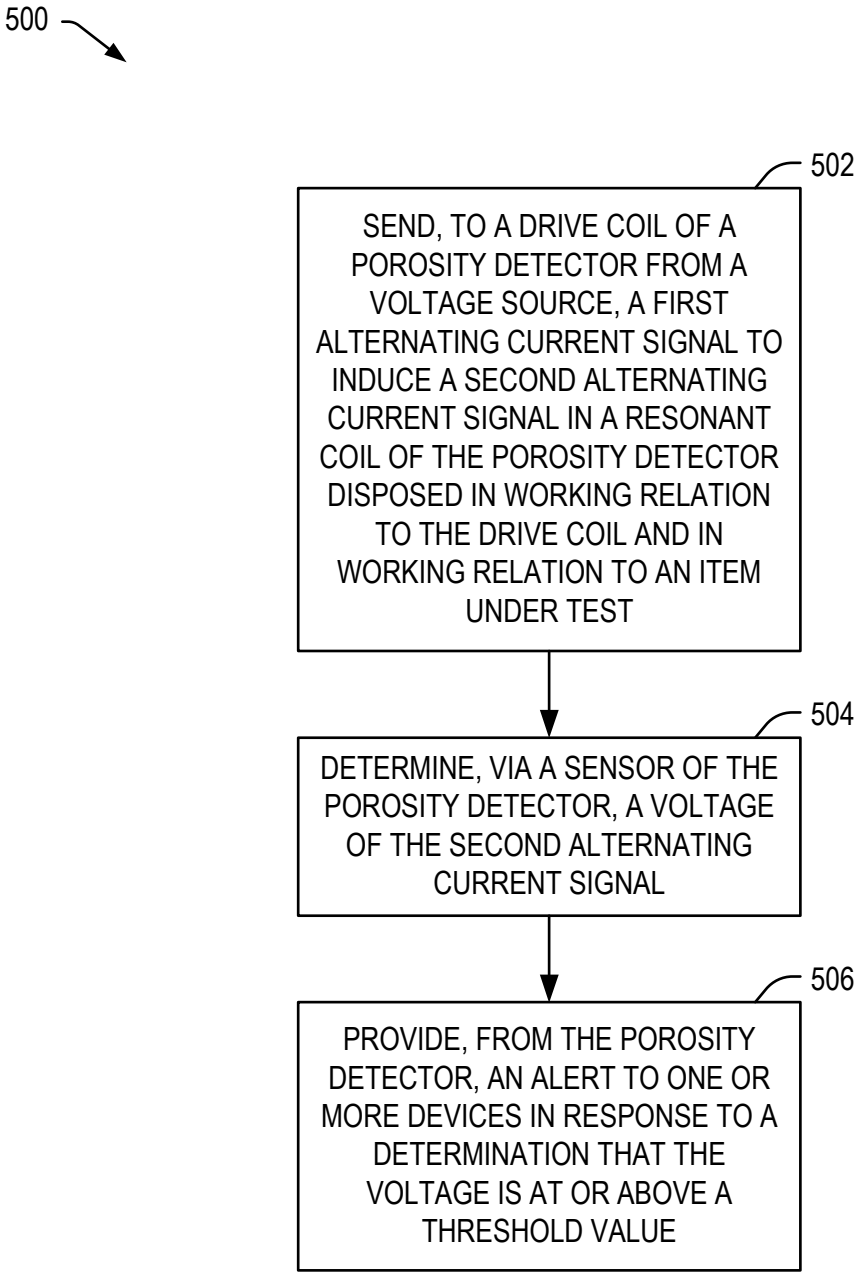

500
502
SEND, TO A DRIVE COIL OF A POROSITY DETECTOR FROM A VOLTAGE SOURCE, A FIRST ALTERNATING CURRENT SIGNAL TO INDUCE A SECOND ALTERNATING CURRENT SIGNAL IN A RESONANT COIL OF THE POROSITY DETECTOR DISPOSED IN WORKING RELATION TO THE DRIVE COIL AND IN WORKING RELATION TO AN ITEM UNDER TEST
504
DETERMINE, VIA A SENSOR OF THE POROSITY DETECTOR, A VOLTAGE OF THE SECOND ALTERNATING CURRENT SIGNAL
506
PROVIDE, FROM THE POROSITY DETECTOR, AN ALERT TO ONE OR MORE DEVICES IN RESPONSE TO A DETERMINATION THAT THE VOLTAGE IS AT OR ABOVE A THRESHOLD VALUE

FIG. 5

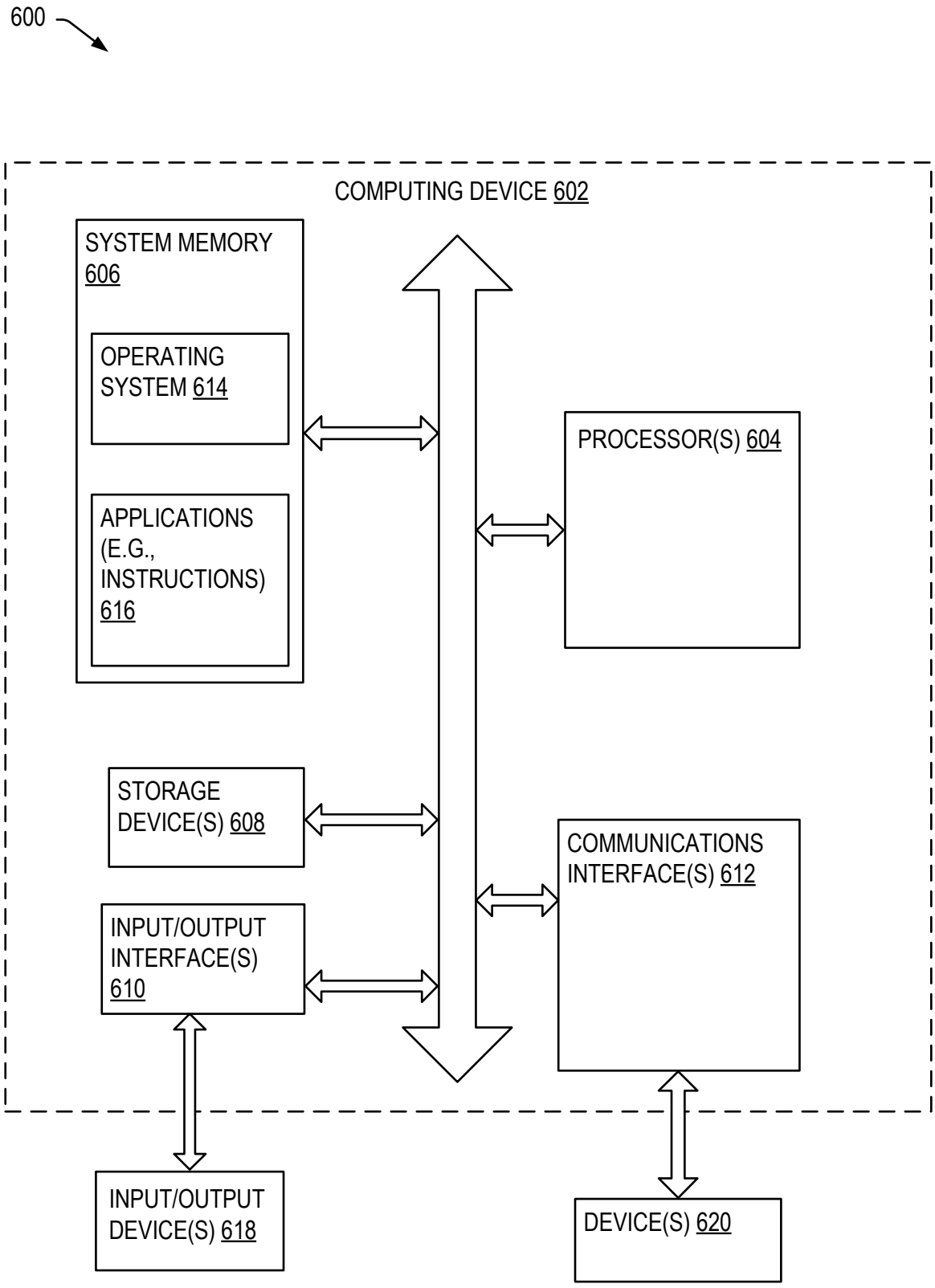

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OPERATING SYSTEM 614
APPLICATIONS (E.G., INSTRUCTIONS) 616
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STORAGE DEVICE(S) 608
COMMUNICATIONS INTERFACE(S) 612
INPUT/OUTPUT INTERFACE(S) 610
INPUT/OUTPUT DEVICE(S) 618
DEVICE(S) 620

FIG. 6