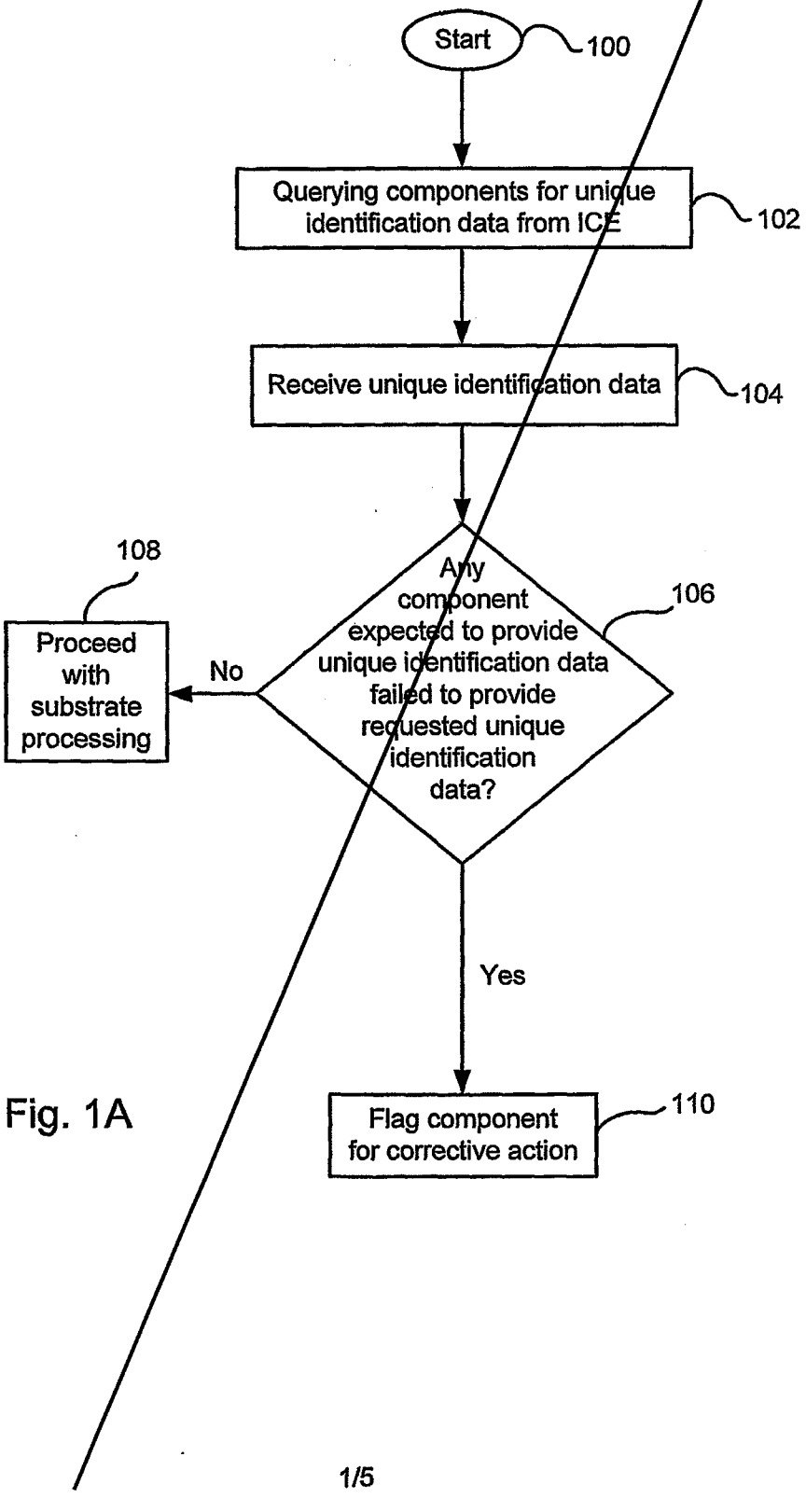

Start
100
Querying components for unique identification data from ICE
102
Receive unique identification data
104
Any component expected to provide unique identification data failed to provide requested unique identification data?
106
No
108
Proceed with substrate processing
Yes
Flag component for corrective action
110

Fig. 1A

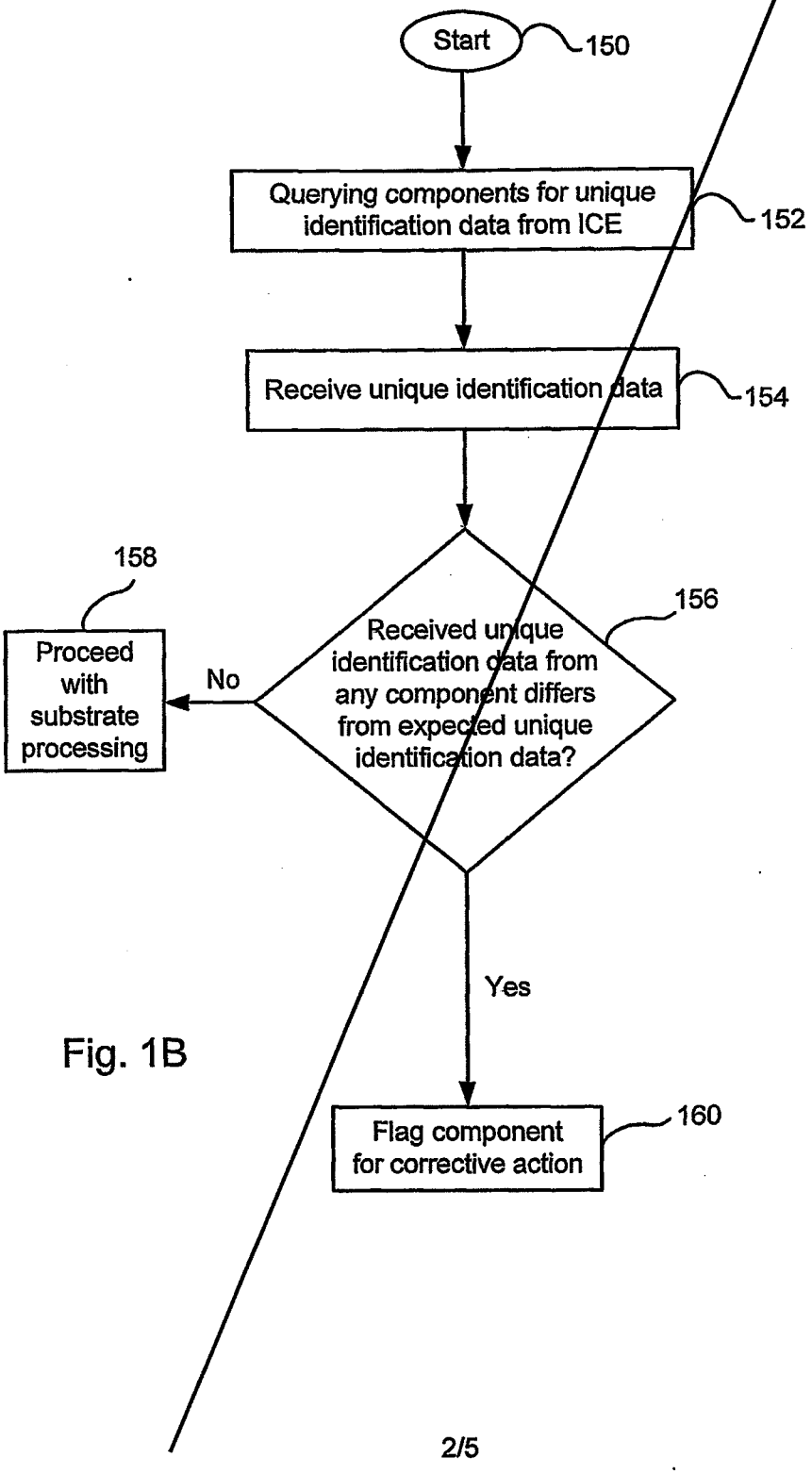

Start
150
Querying components for unique identification data from ICE
152
Receive unique identification data
154
Received unique identification data from any component differs from expected unique identification data?
156
No
158
Proceed with substrate processing
Yes
Flag component for corrective action
160

Fig. 1B

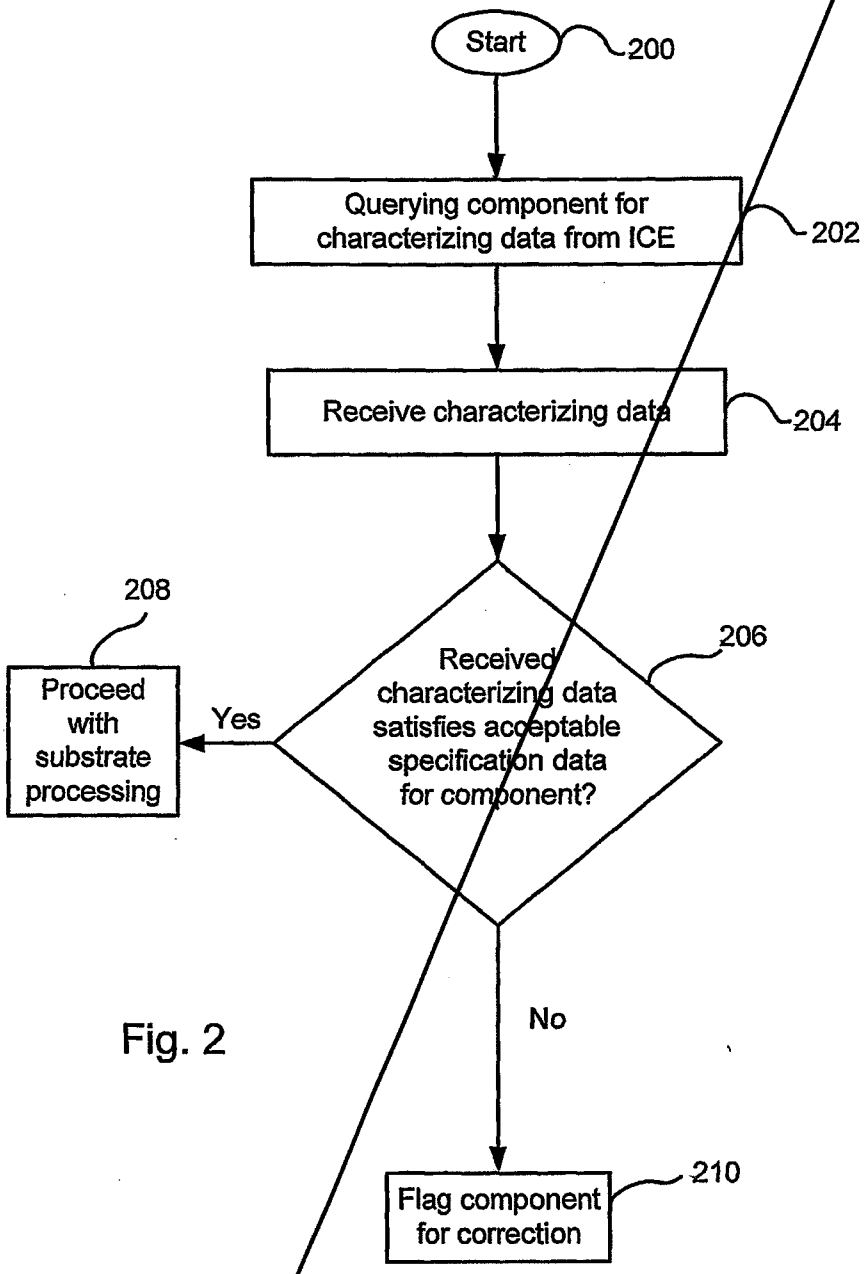

Start
200
Querying component for characterizing data from ICE
202
Receive characterizing data
204
Received characterizing data satisfies acceptable specification data for component?
206
Yes
208
Proceed with substrate processing
No
Flag component for correction
210

Fig. 2

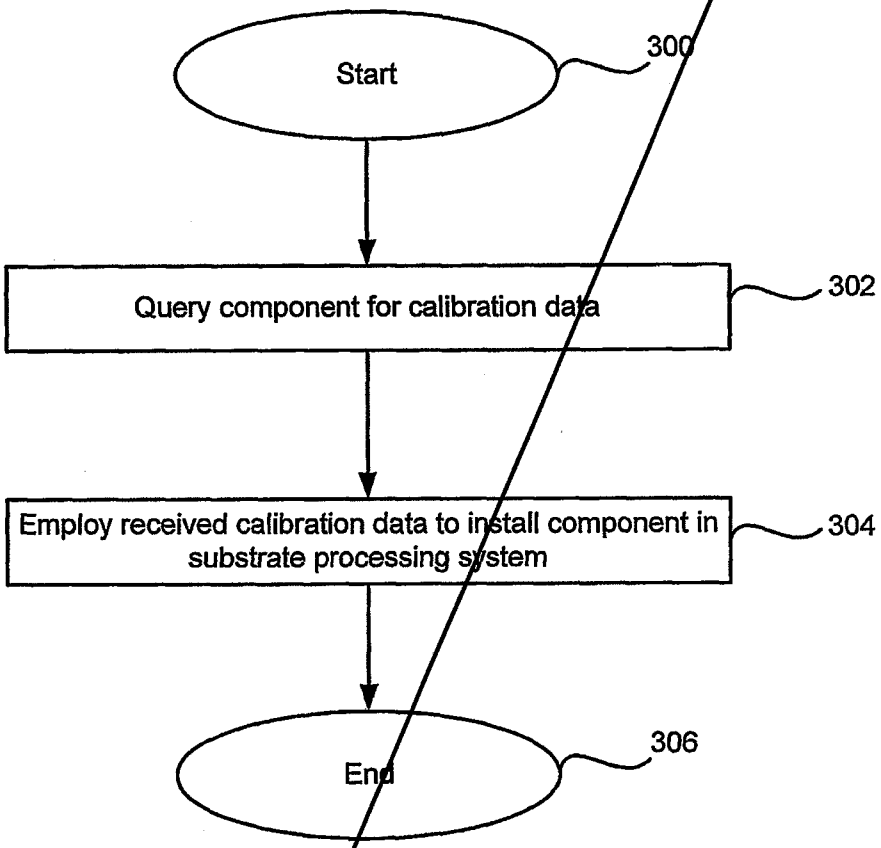

Start
300
Query component for calibration data
302
Employ received calibration data to install component in substrate processing system
304
End
306

Fig. 3

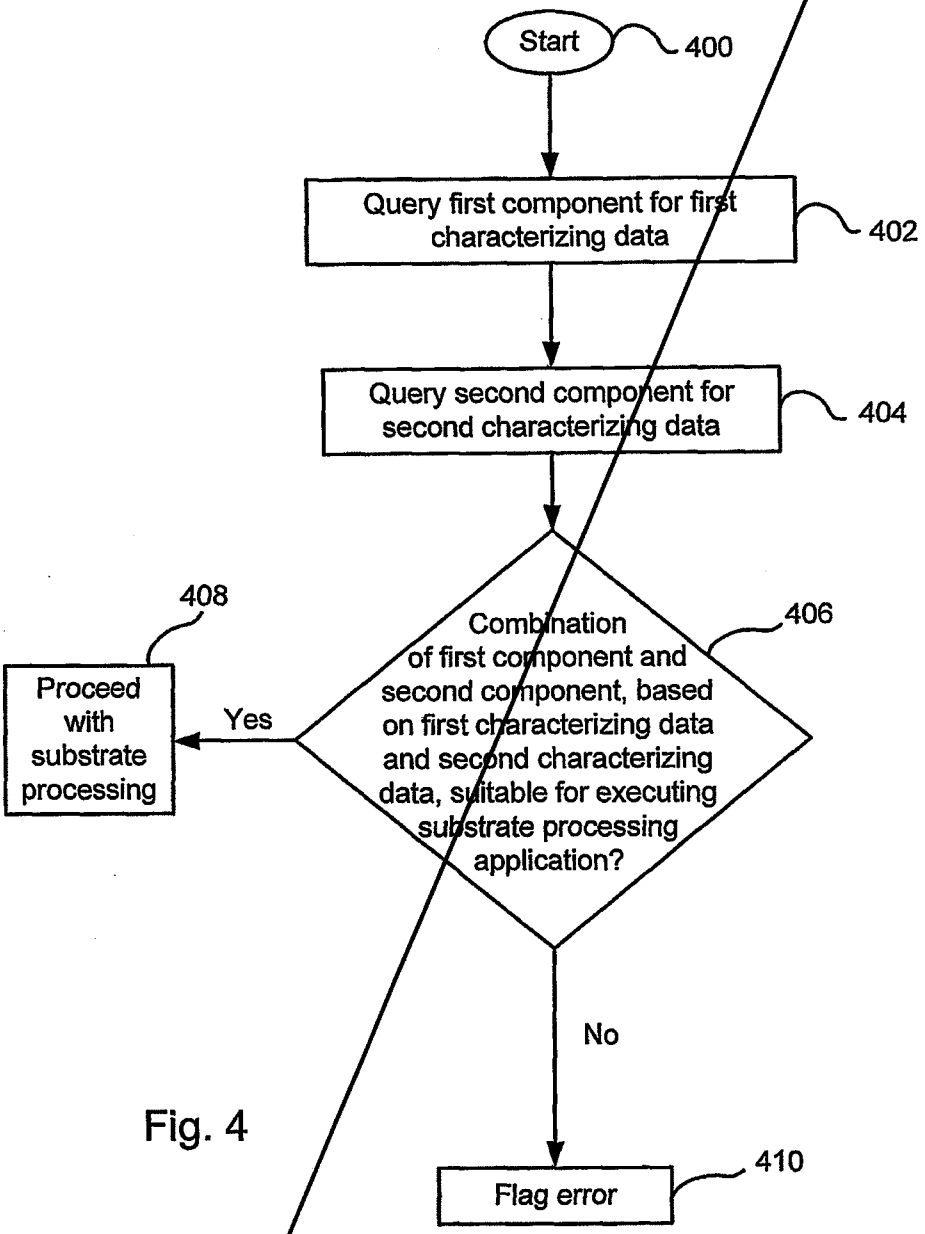

Start
400
Query first component for first characterizing data
402
Query second component for second characterizing data
404
Combination of first component and second component, based on first characterizing data and second characterizing data, suitable for executing substrate processing application?
406
Yes
408
Proceed with substrate processing
No
Flag error
410

Fig. 4

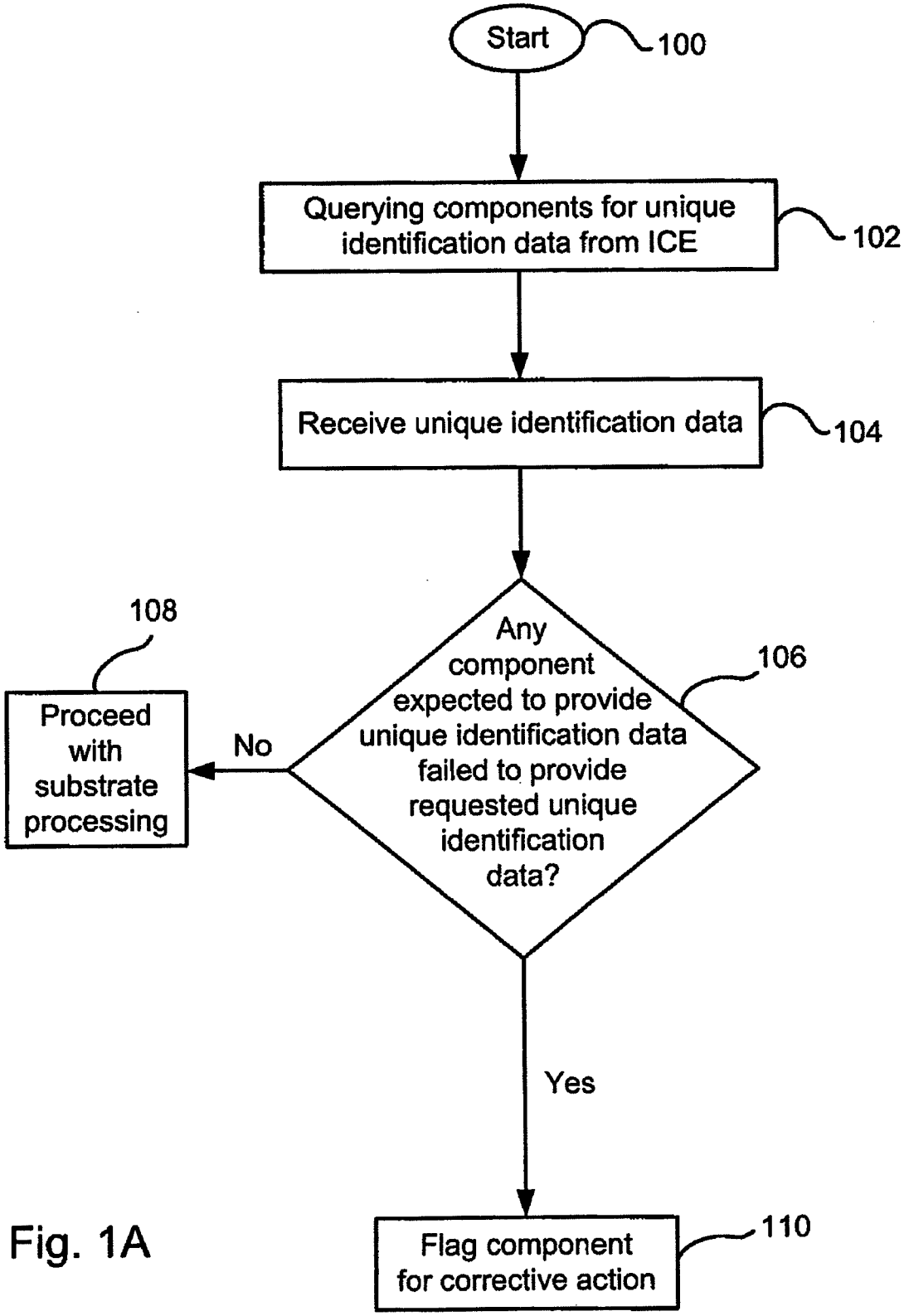

Start
100
Querying components for unique identification data from ICE
102
Receive unique identification data
104
Any component expected to provide unique identification data failed to provide requested unique identification data?
106
No
108
Proceed with substrate processing
Yes
Flag component for corrective action
110

Fig. 1A

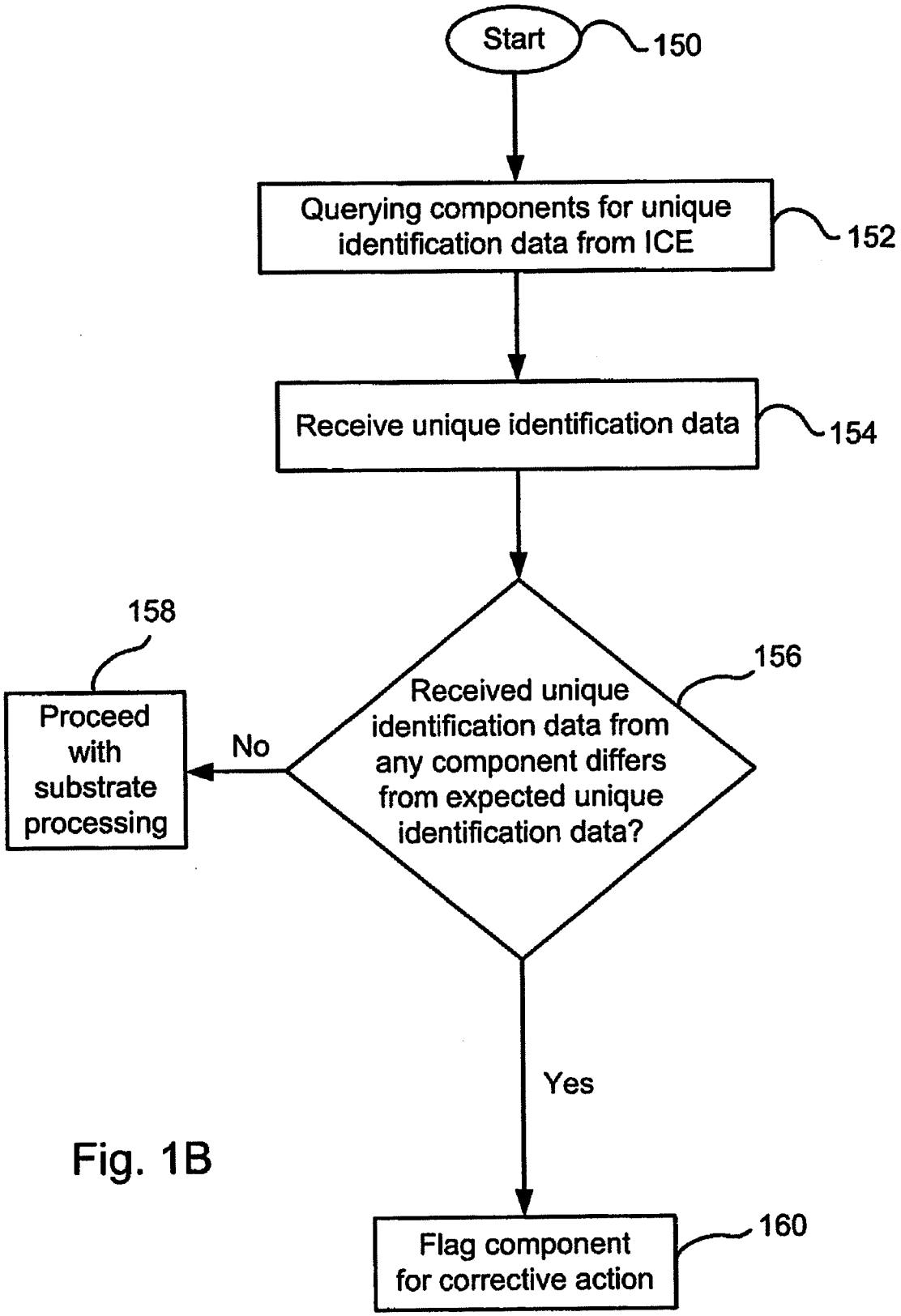

Start
150
Querying components for unique identification data from ICE
152
Receive unique identification data
154
Received unique identification data from any component differs from expected unique identification data?
156
No
158
Proceed with substrate processing
Yes
Flag component for corrective action
160

Fig. 1B

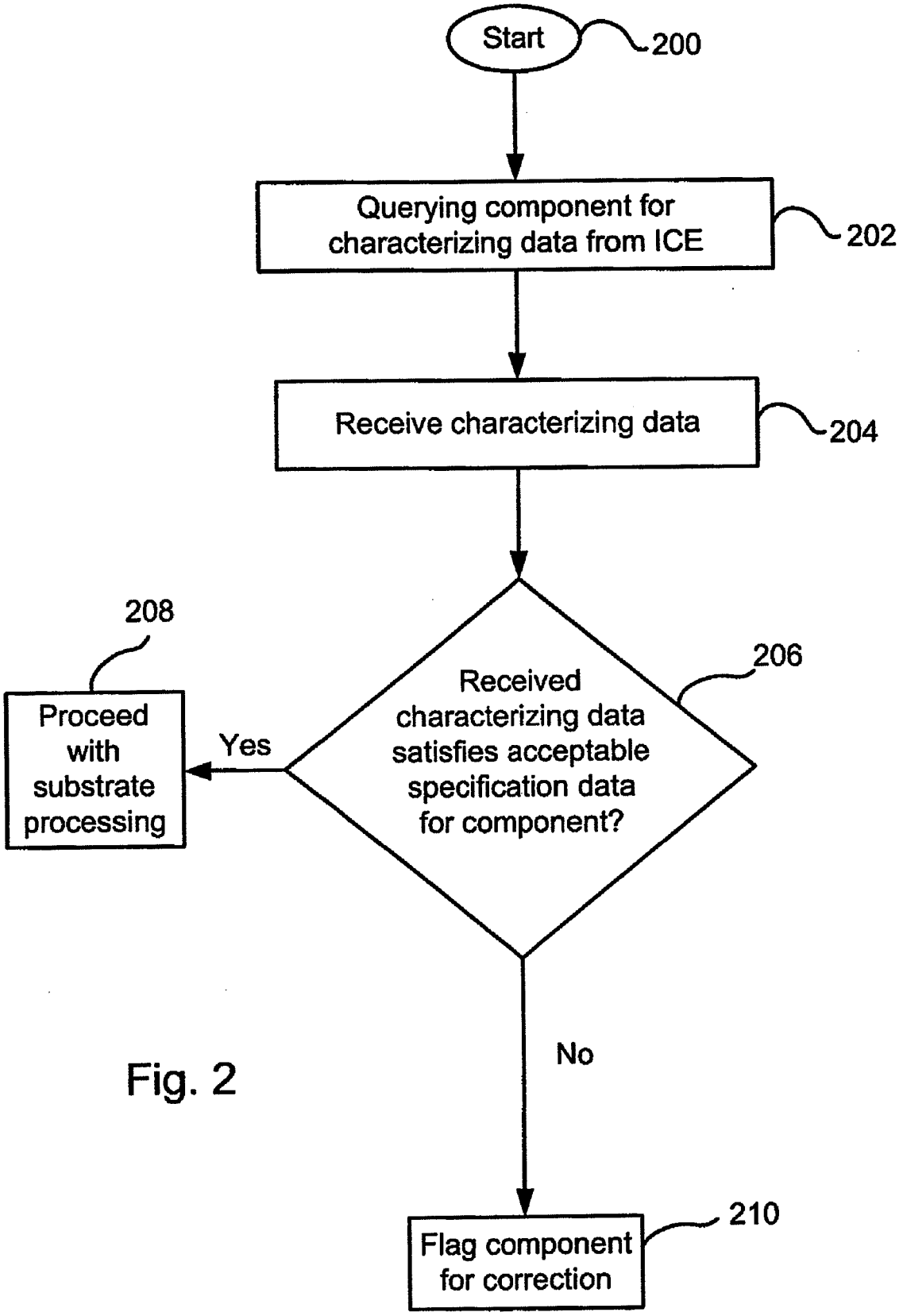

Start
200
Querying component for characterizing data from ICE
202
Receive characterizing data
204
Received characterizing data satisfies acceptable specification data for component?
206
Yes
208
Proceed with substrate processing
No
Flag component for correction
210

Fig. 2

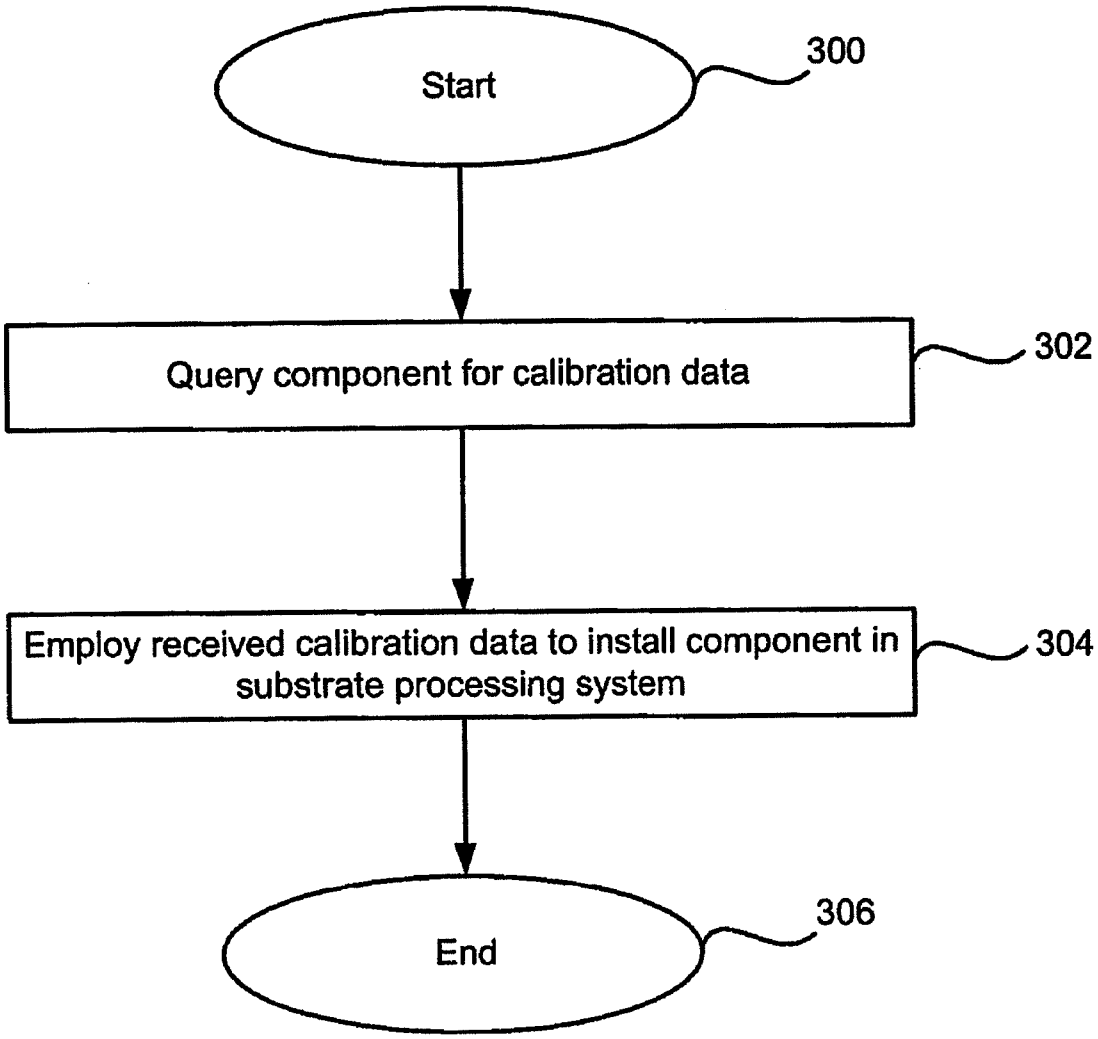

Start
300
Query component for calibration data
302
Employ received calibration data to install component in substrate processing system
304
End
306

Fig. 3

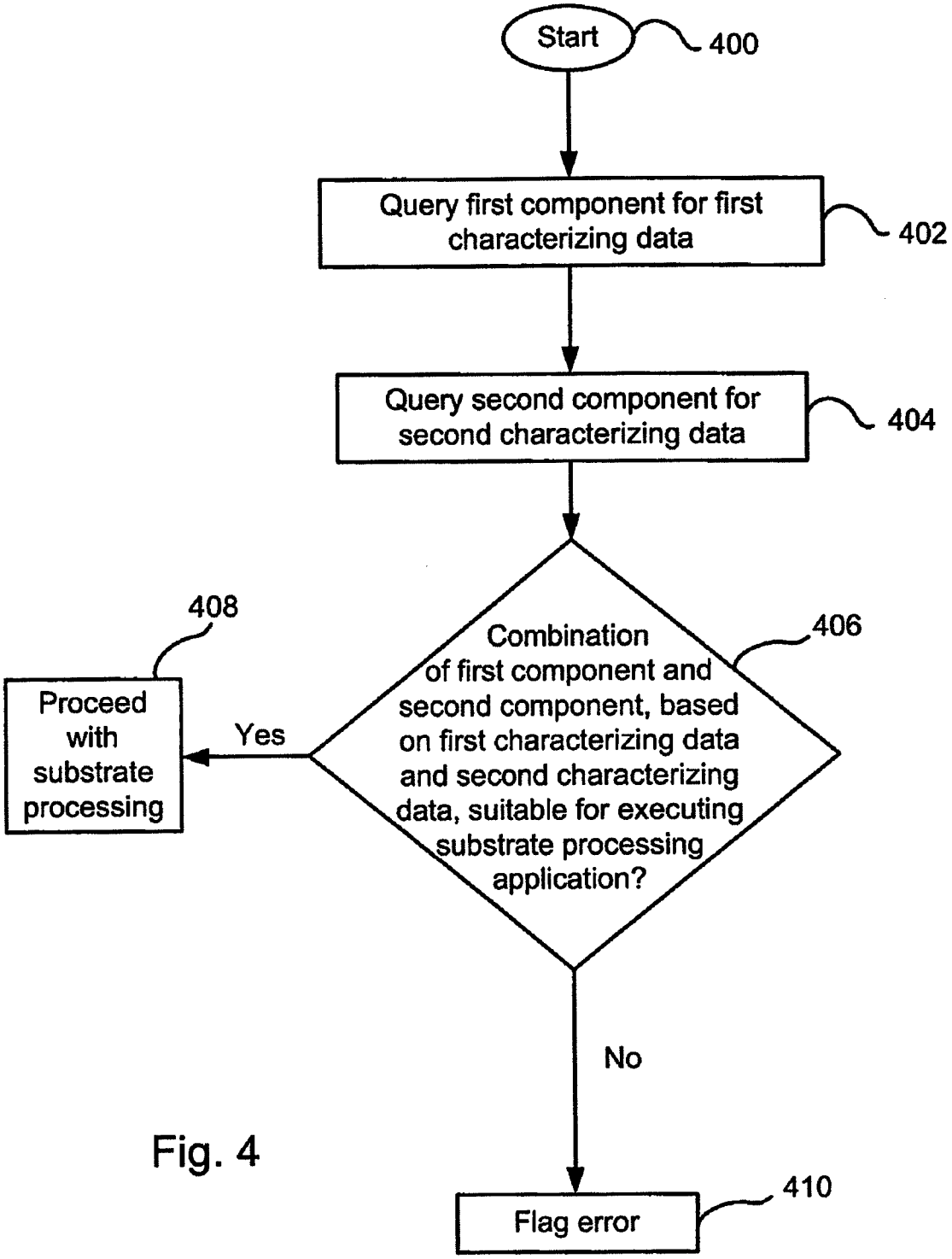

Start
400
Query first component for first characterizing data
402
Query second component for second characterizing data
404
Combination of first component and second component, based on first characterizing data and second characterizing data, suitable for executing substrate processing application?
406
Yes
408
Proceed with substrate processing
No
Flag error
410

Fig. 4