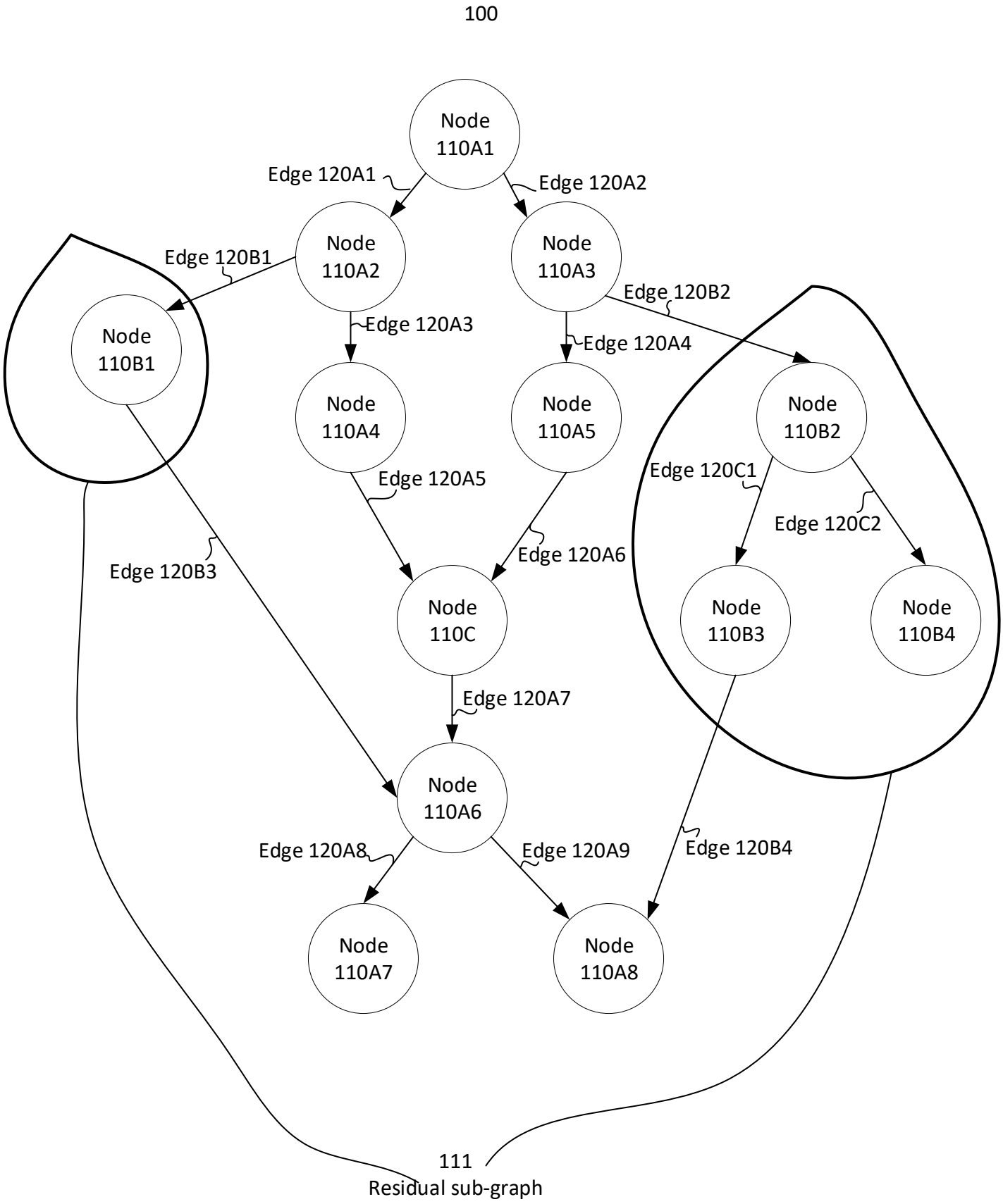
100
Node 110A1
Edge 120A1
Edge 120A2
Node 110A2
Node 110A3
Edge 120B1
Edge 120B2
Node 110B1
Edge 120A3
Edge 120A4
Node 110A4
Node 110A5
Node 110B2
Edge 120C1
Edge 120A5
Edge 120C2
Edge 120B3
Edge 120A6
Node 110C
Node 110B3
Node 110B4
Edge 120A7
Node 110A6
Edge 120A8
Edge 120A9
Edge 120B4
Node 110A7
Node 110A8
111
Residual sub-graph

FIG. 1

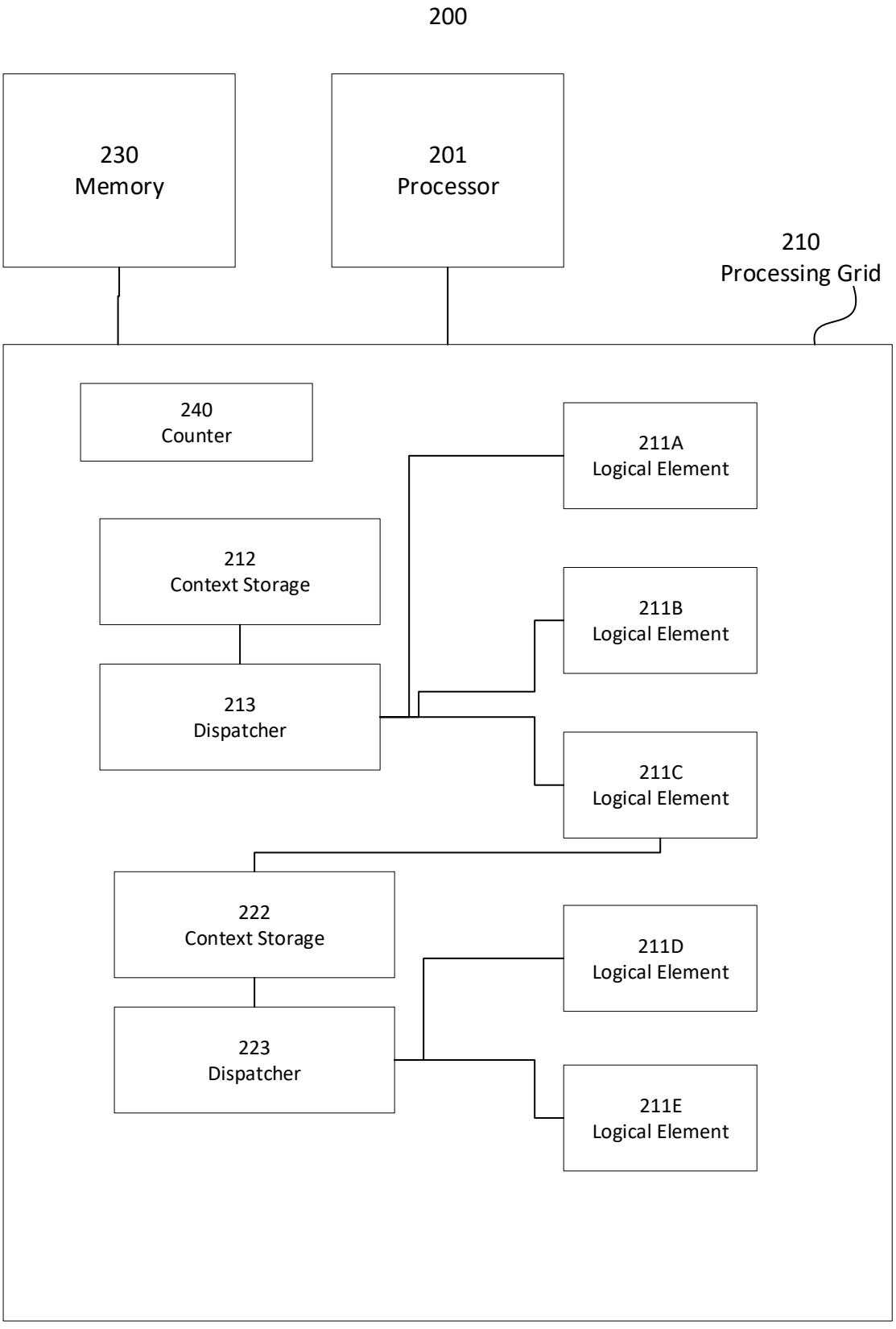
200
230
Memory
201
Processor
210
Processing Grid
240
Counter
212
Context Storage
213
Dispatcher
222
Context Storage
223
Dispatcher
211A
Logical Element
211B
Logical Element
211C
Logical Element
211D
Logical Element
211E
Logical Element

FIG. 2

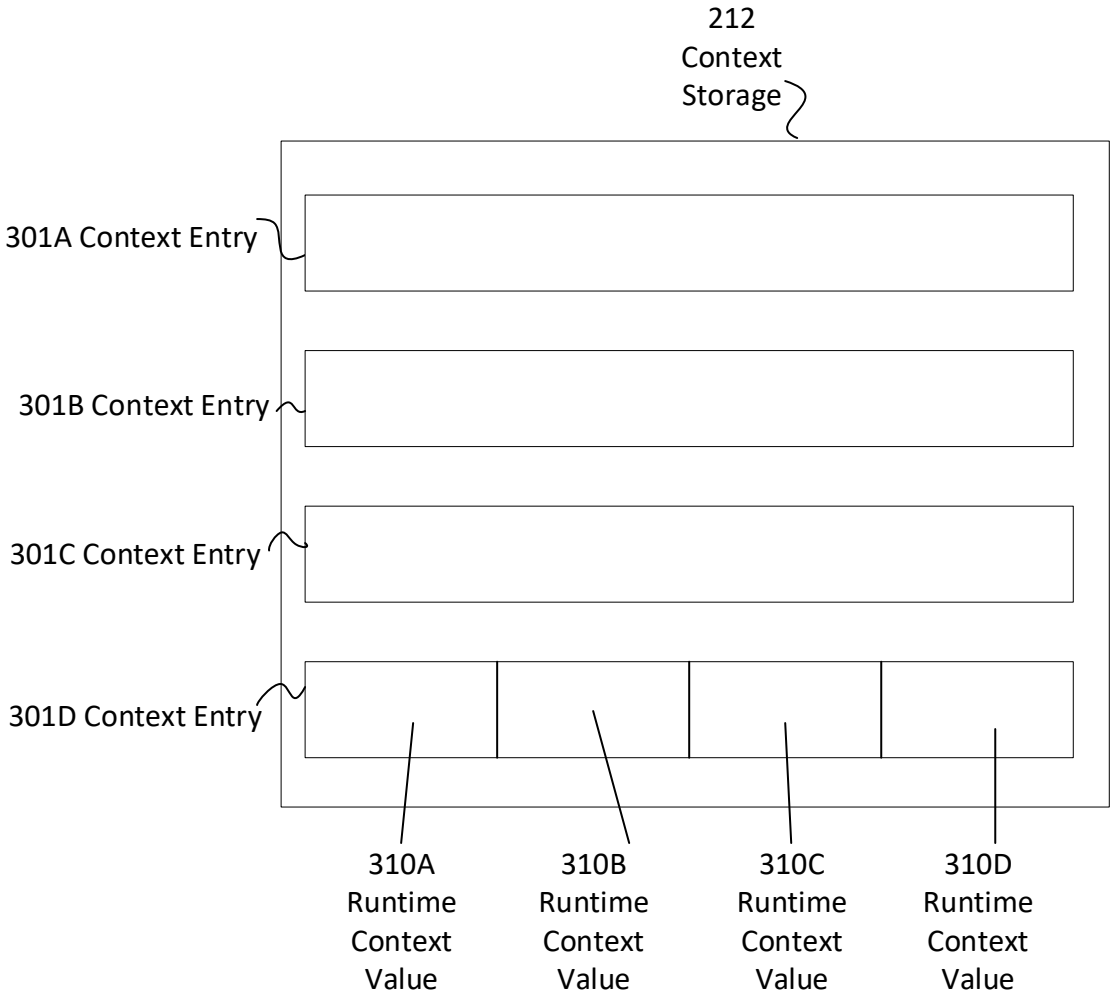
212
Context
Storage
301A Context Entry
301B Context Entry
301C Context Entry
301D Context Entry
310A
Runtime
Context
Value
310B
Runtime
Context
Value
310C
Runtime
Context
Value
310D
Runtime
Context
Value

FIG. 3

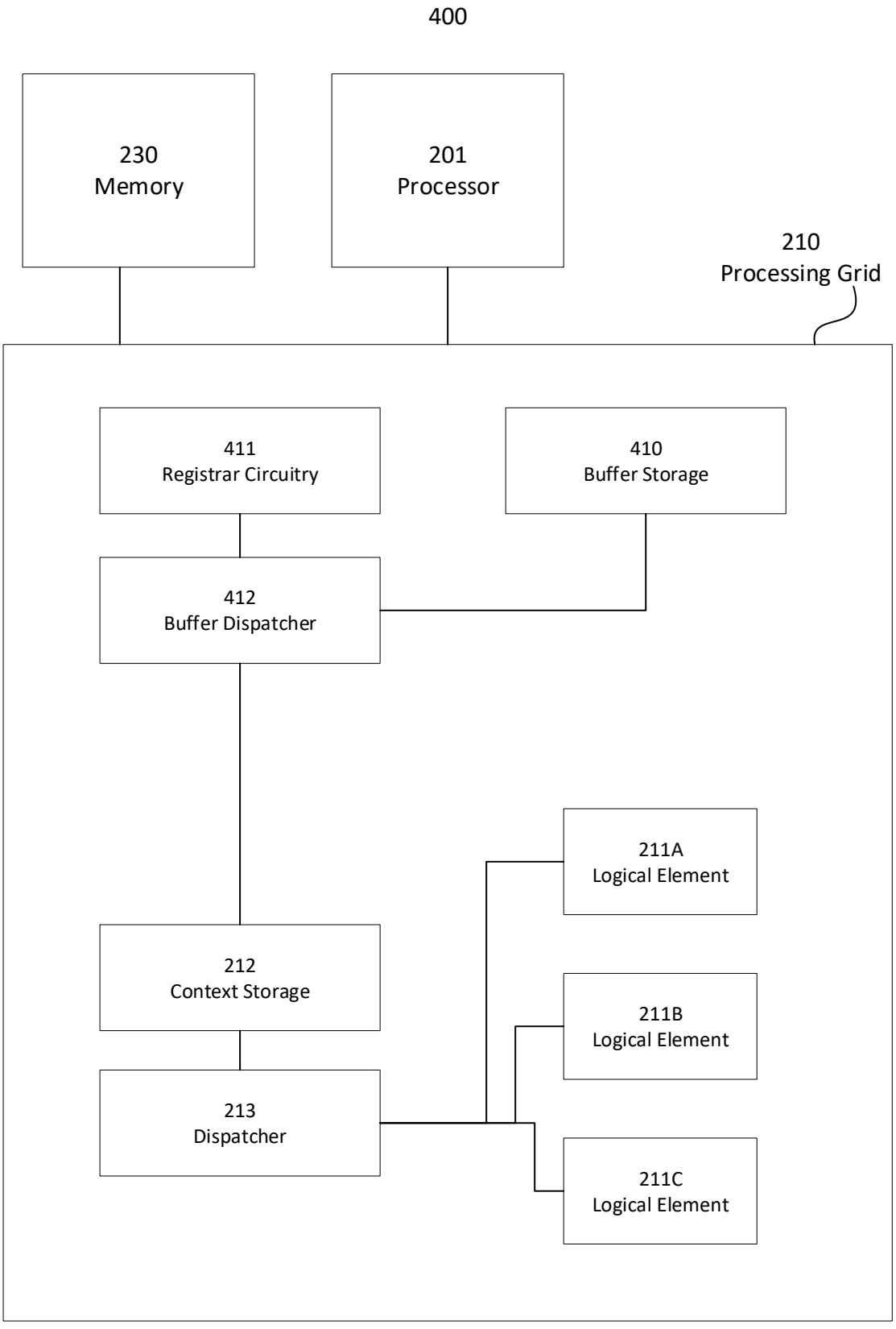
400
230
Memory
201
Processor
210
Processing Grid
411
Registrar Circuitry
410
Buffer Storage
412
Buffer Dispatcher
212
Context Storage
213
Dispatcher
211A
Logical Element
211B
Logical Element
211C
Logical Element

FIG. 4

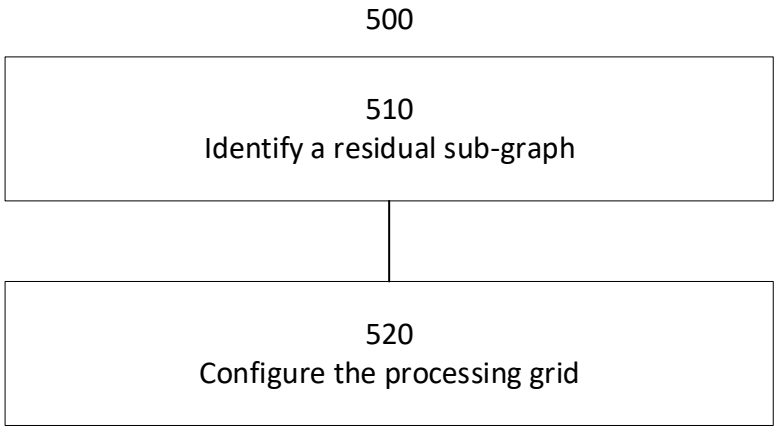
500
510
Identify a residual sub-graph
520
Configure the processing grid

FIG. 5

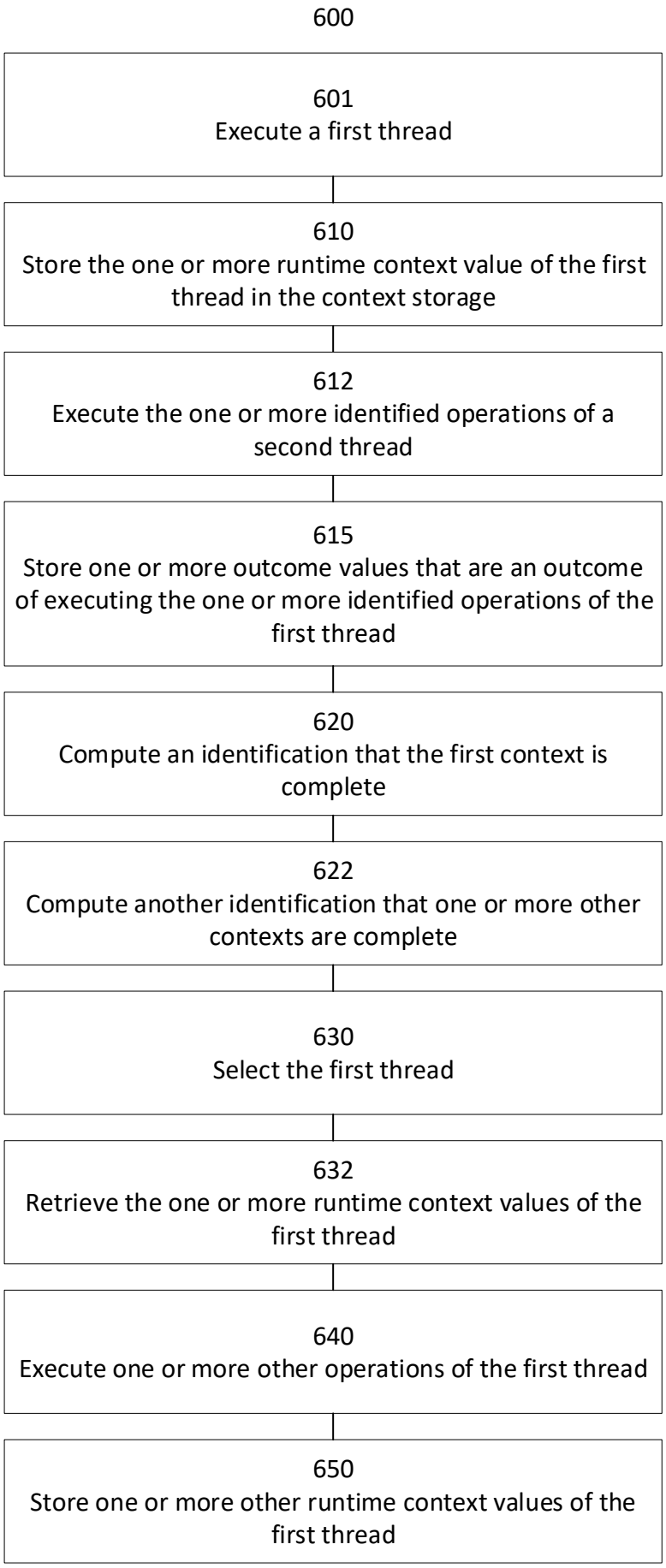
600
601
Execute a first thread
610
Store the one or more runtime context value of the first thread in the context storage
612
Execute the one or more identified operations of a second thread
615
Store one or more outcome values that are an outcome of executing the one or more identified operations of the first thread
620
Compute an identification that the first context is complete
622
Compute another identification that one or more other contexts are complete
630
Select the first thread
632
Retrieve the one or more runtime context values of the first thread
640
Execute one or more other operations of the first thread
650
Store one or more other runtime context values of the first thread

FIG. 6

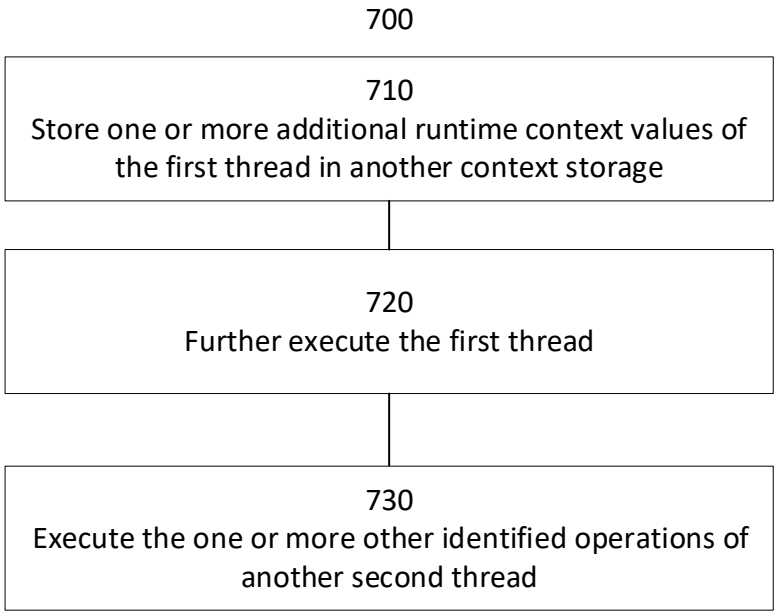
700
710
Store one or more additional runtime context values of the first thread in another context storage
720
Further execute the first thread
730
Execute the one or more other identified operations of another second thread

FIG. 7

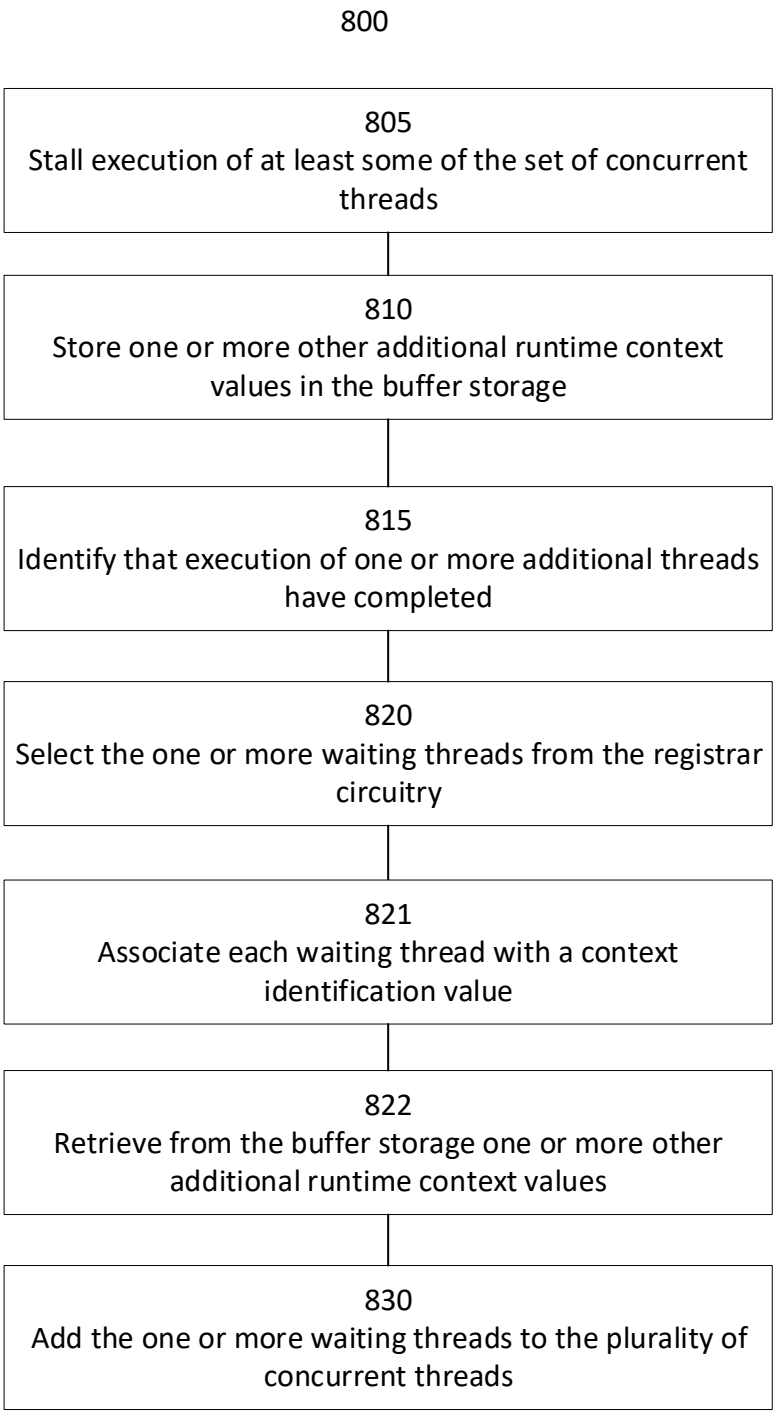
800
805
Stall execution of at least some of the set of concurrent threads
810
Store one or more other additional runtime context values in the buffer storage
815
Identify that execution of one or more additional threads have completed
820
Select the one or more waiting threads from the registrar circuitry
821
Associate each waiting thread with a context identification value
822
Retrieve from the buffer storage one or more other additional runtime context values
830
Add the one or more waiting threads to the plurality of concurrent threads

FIG. 8