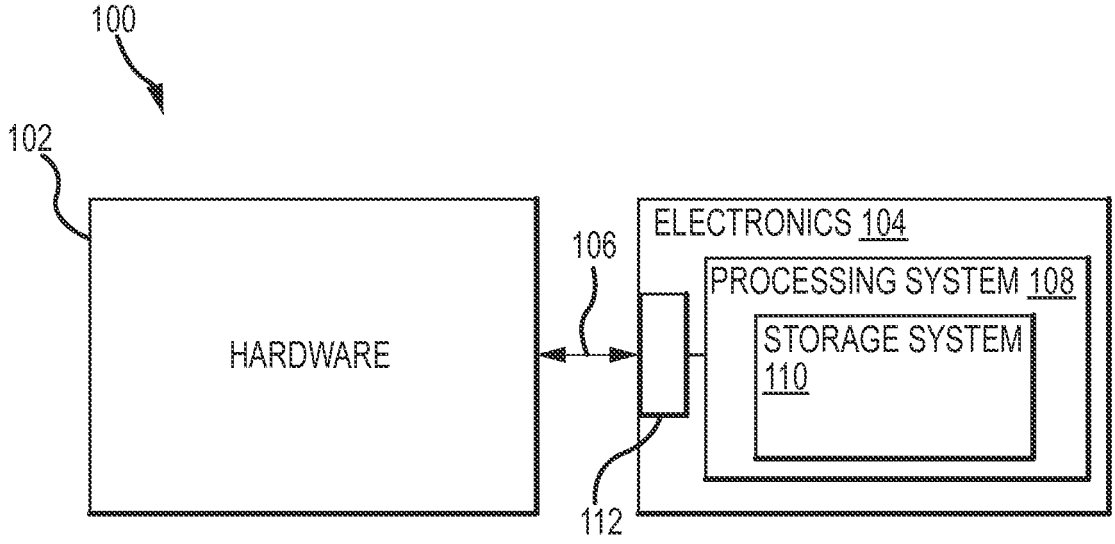
100
102
HARDWARE
106
ELECTRONICS 104
PROCESSING SYSTEM 108
STORAGE SYSTEM 110
112

FIG.1

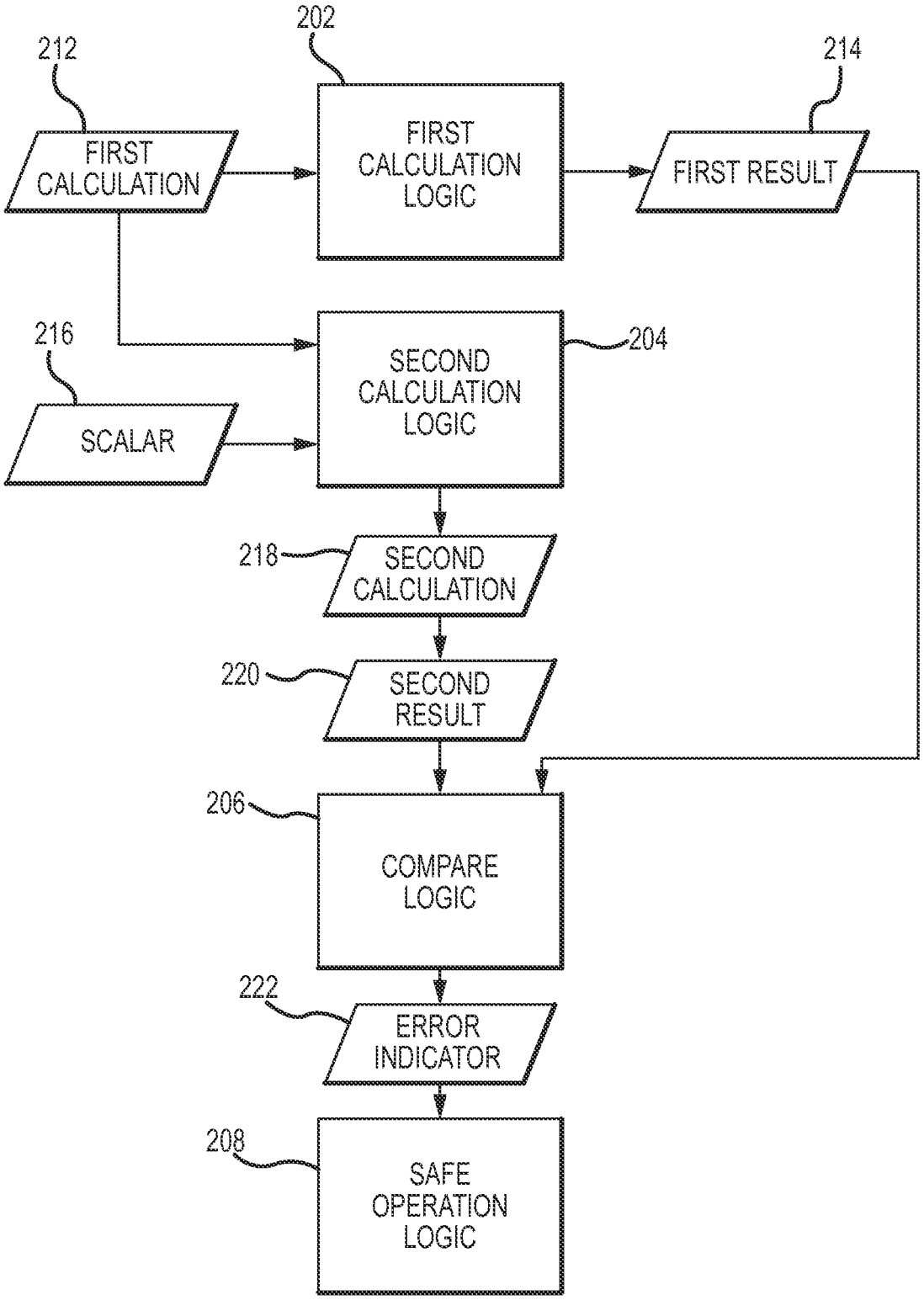
212
202
214
FIRST CALCULATION
FIRST CALCULATION LOGIC
FIRST RESULT
216
204
SECOND CALCULATION LOGIC
SCALAR
218
SECOND CALCULATION
220
SECOND RESULT
206
COMPARE LOGIC
222
ERROR INDICATOR
208
SAFE OPERATION LOGIC

FIG.2

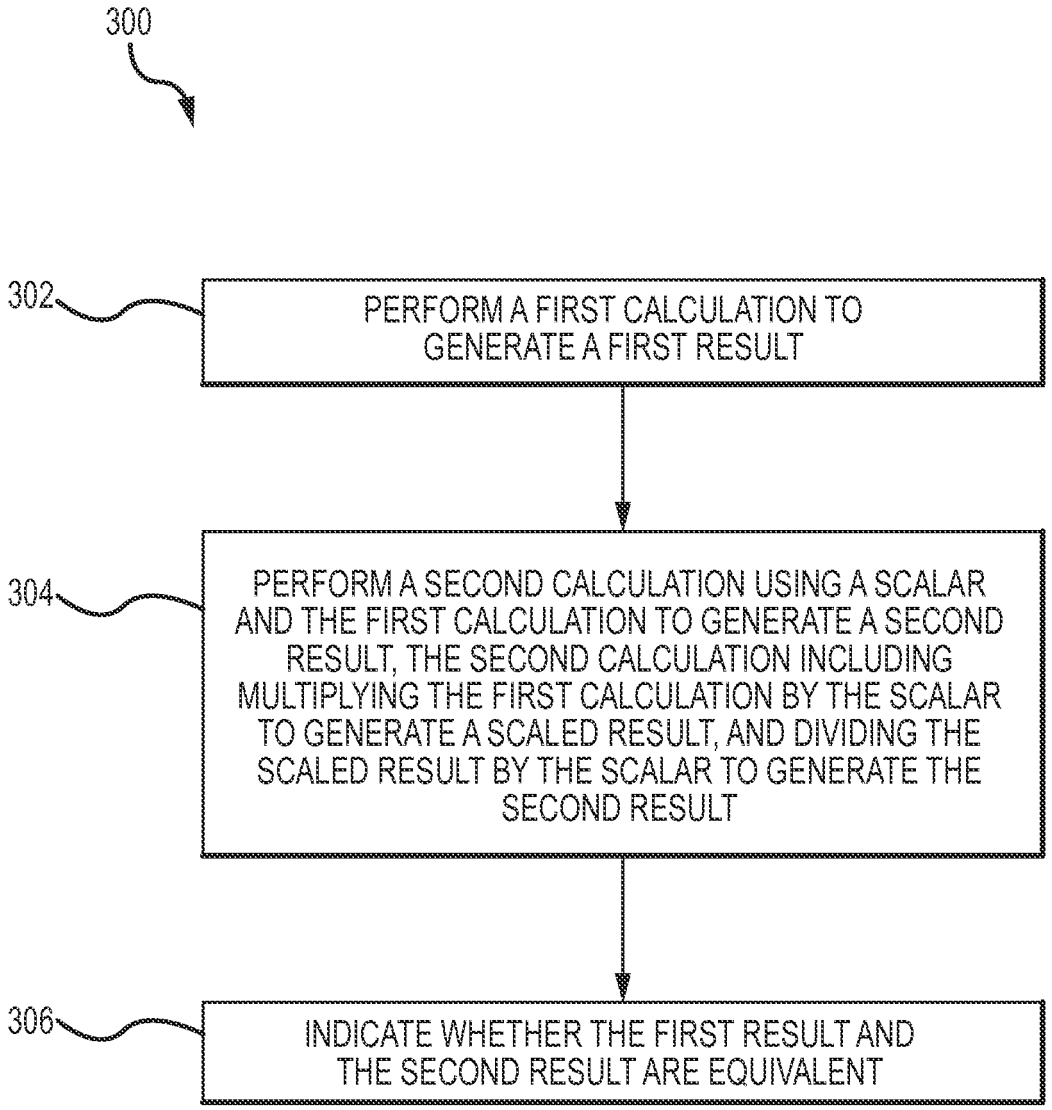
300
302
PERFORM A FIRST CALCULATION TO GENERATE A FIRST RESULT
304
PERFORM A SECOND CALCULATION USING A SCALAR AND THE FIRST CALCULATION TO GENERATE A SECOND RESULT, THE SECOND CALCULATION INCLUDING MULTIPLYING THE FIRST CALCULATION BY THE SCALAR TO GENERATE A SCALED RESULT, AND DIVIDING THE SCALED RESULT BY THE SCALAR TO GENERATE THE SECOND RESULT
306
INDICATE WHETHER THE FIRST RESULT AND THE SECOND RESULT ARE EQUIVALENT

FIG.3

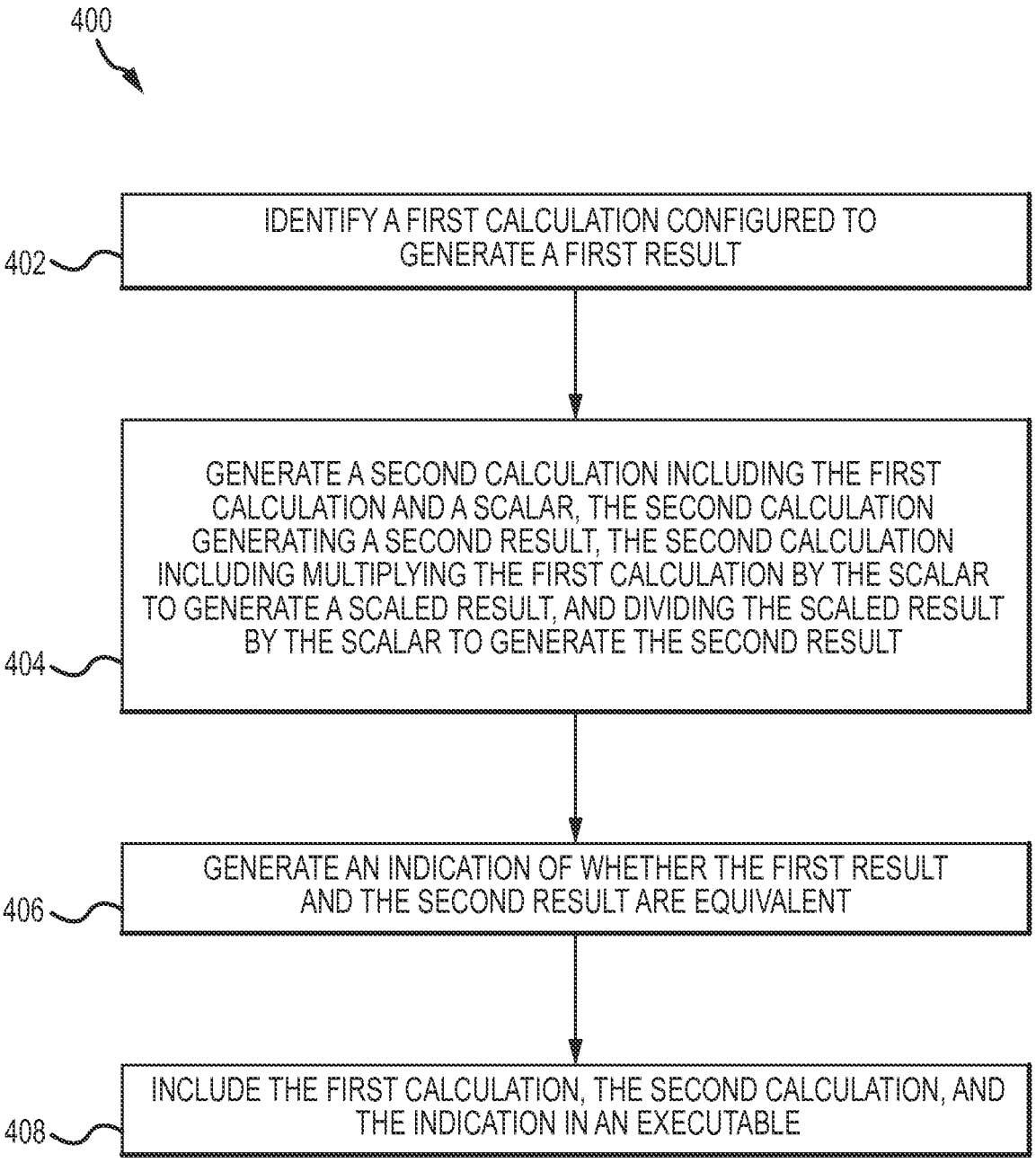
400
IDENTIFY A FIRST CALCULATION CONFIGURED TO GENERATE A FIRST RESULT
402
GENERATE A SECOND CALCULATION INCLUDING THE FIRST CALCULATION AND A SCALAR, THE SECOND CALCULATION GENERATING A SECOND RESULT, THE SECOND CALCULATION INCLUDING MULTIPLYING THE FIRST CALCULATION BY THE SCALAR TO GENERATE A SCALED RESULT, AND DIVIDING THE SCALED RESULT BY THE SCALAR TO GENERATE THE SECOND RESULT
404
GENERATE AN INDICATION OF WHETHER THE FIRST RESULT AND THE SECOND RESULT ARE EQUIVALENT
406
INCLUDE THE FIRST CALCULATION, THE SECOND CALCULATION, AND THE INDICATION IN AN EXECUTABLE
408

FIG.4