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Declarations under Rule 4.17:

- as to applicant's entitlement to apply for and be granted a patent (Rule 4.17(ii))
- as to the applicant's entitlement to claim the priority of the earlier application (Rule 4.17(iii))

(54) Title: EXECUTION OF A CONDITIONAL STATEMENT BY AN ARITHMETIC AND/OR BITWISE UNIT

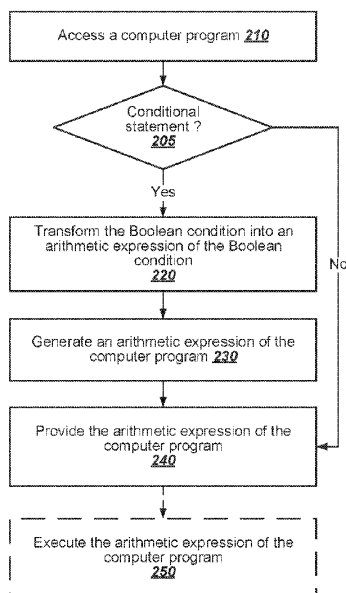


FIG. 2

(57) Abstract: Methods, systems, and apparatus, including computer programs encoded on computer storage media, for execution of a conditional statement by an arithmetic and/or bitwise unit. A computer program that comprises a conditional statement that comprises a Boolean condition is accessed. The Boolean condition is transformed into an arithmetic and/or bitwise expression of the Boolean condition. An arithmetic and/or bitwise expression of the computer program comprises the arithmetic and/or bitwise expression of the Boolean condition in place of the Boolean condition. The arithmetic and/or bitwise expression of the computer program is executed by an arithmetic and/or bitwise operation unit of a processor.

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