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Declarations under Rule 4.17:

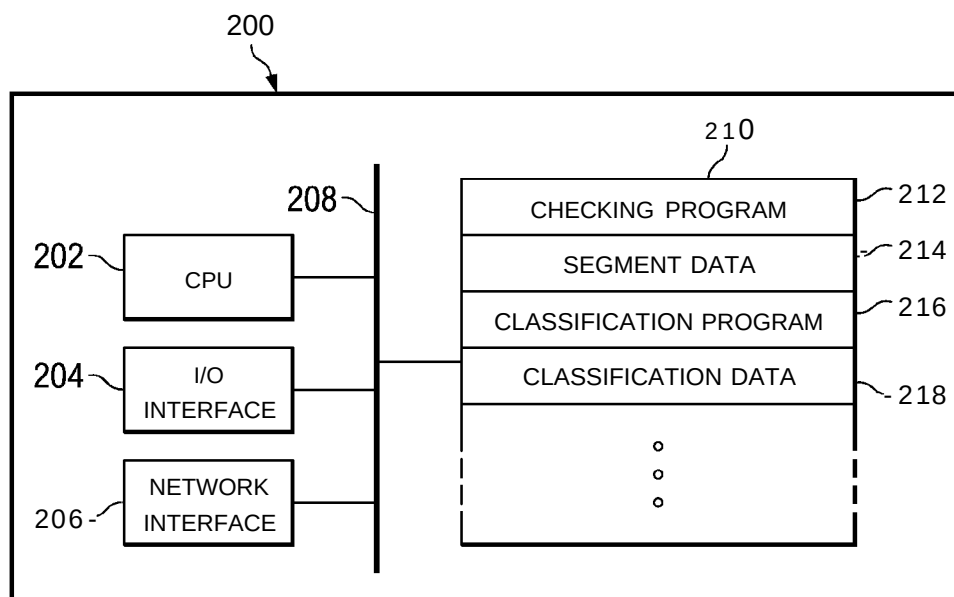
- as to applicant's entitlement to apply for and be granted a patent (Rule 4.17(U))
- as to the applicant's entitlement to claim the priority of the earlier application (Rule 4.17(Ui))

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[Continued on next page]

(54) **Title:** SYSTEM AND METHOD FOR CHECKING FOR SUB-RESOLUTION ASSIST FEATURES



(57) **Abstract:** In accordance with the invention, there is provided a system (200) and method for checking a mask layout including sub-resolution assist features (SRAFs). A checking program (212) divides each edge of each main feature into sections, forms a set of segments by searching perpendicularly over a distance to determine if any portion of a feature is located within the distance. Segments are then flagged based on whether a feature located within proximity to that segment. A classification program (216) may then classify each of the main features based on the segment data (214).

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A. CLASSIFICATION OF SUBJECT MATTER

IPC **G06F** 17/50(2006 01)

USPC 716/4, 19

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

U S 716/4,19

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

Google, IEEE

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No
X	US Pub No 2003/0208742 to LaCour, November 2003 (112003), Paragraphs 13, 23, 25, 54-57, 63, 79, Fig 6-7, 9	1-12



Further documents are listed in the continuation of Box C



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