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(54) Title: METHOD AND SYSTEM FOR HYBRID RETICLE INSPECTION

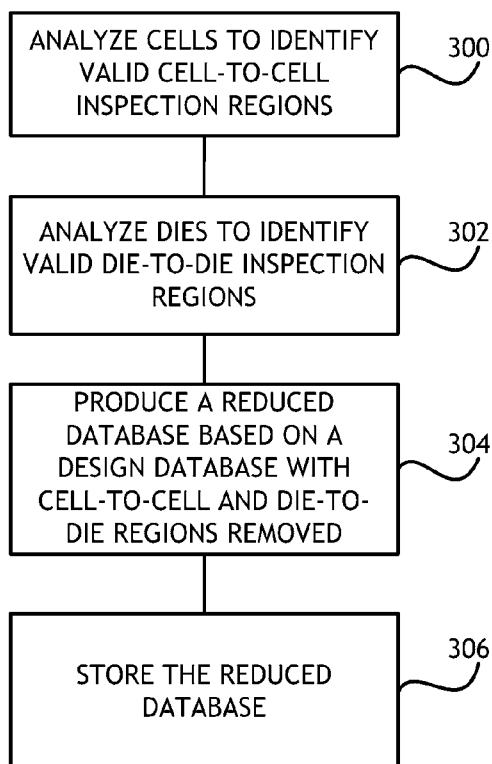


FIG. 3

(57) Abstract: A semiconductor inspection apparatus performs a hybrid inspection process including cell-to-cell inspection, die-to-die inspection and die-to-golden or die-to- database inspection. The apparatus creates a golden image of a reticle complimentary to portions of the reticle that can be inspected by cell-to-cell inspection or die-to-die inspection. Alternatively, the apparatus creates a reduced database complimentary to portions of the reticle that can be inspected by cell-to- cell inspection or die-to-die inspection.



OM, PE, PG, PH, PL, PT, QA, RO, RS, RU, RW, SC,
SD, SE, SG, SK, SL, SM, ST, SV, SY, TH, TJ, TM, TN,
TR, TT, TZ, UA, UG, US, UZ, VC, VN, ZA, ZM, ZW.

LT, LU, LV, MC, MK, MT, NL, NO, PL, PT, RO, RS,
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USPC - 324/762.05

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)

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USPC- 324/762.05

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

USPC- 324/750.01, 754.01, 762.01, 762.05; 257/E26.521;

Patents and NPL (classification, keyword; search terms below)

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

PubWest (US Pat, PgPub, EPO, JPO), GoogleScholar (PL, NPL), FreePatentsOnline (US Pat, PgPub, EPO, JPO, WIPO, NPL); search terms:

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X --- Y	US 2009/0080759 A1 (Bhaskar, et al.) 26 March 2009 (23.03.2009), entire document, especially para [0013]-[0215]	1-6, 12-17, 19-21, 25-26 ----- 7-11, 18, 22-24, 27
Y	US 2006/0234139 A1 (Watson, et al.) 19 October 2006 (19.10.2006), entire document, especially para [0007]-[0056]	7-11, 18, 22-24, 27

☐ Further documents are listed in the continuation of Box C.

* Special categories of cited documents:

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"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art

"&" document member of the same patent family

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