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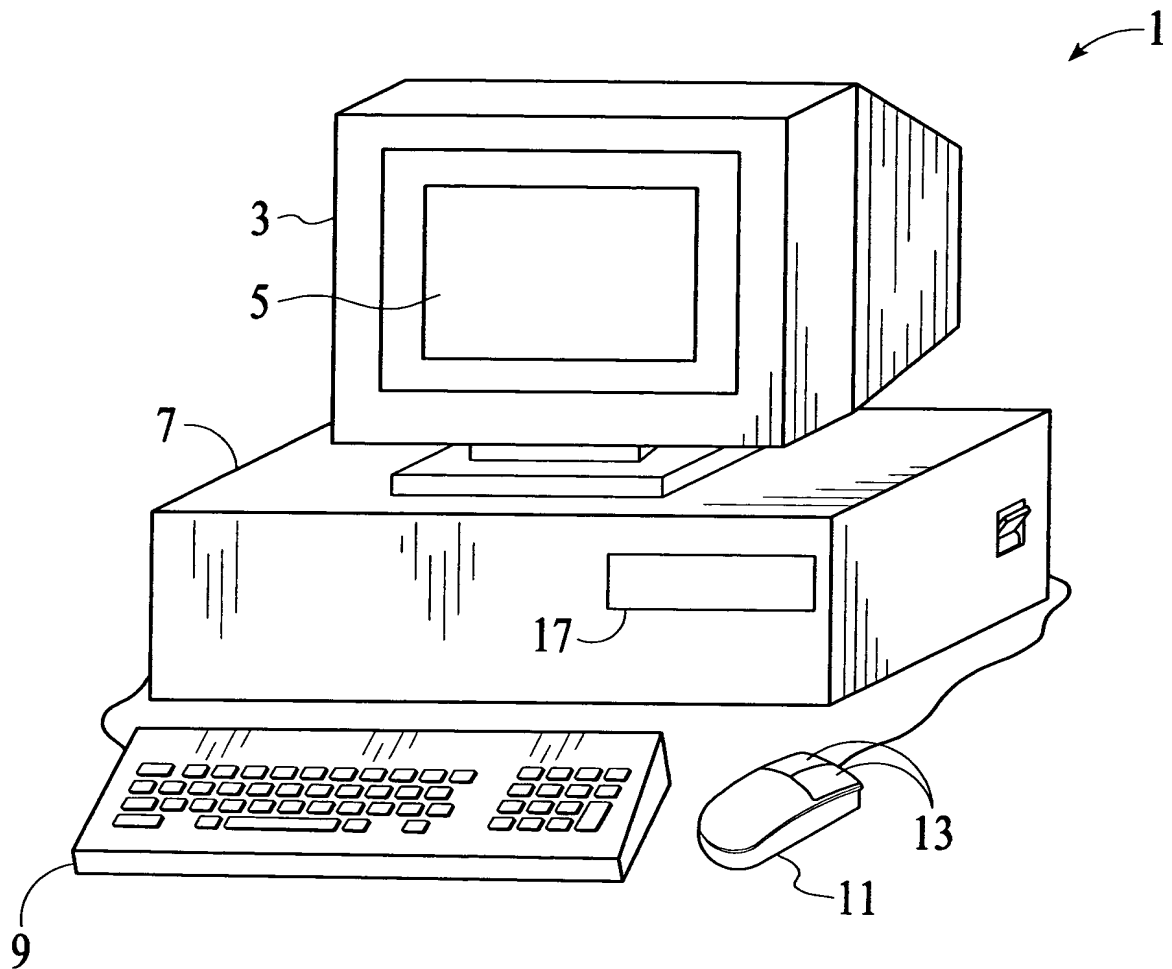


FIG.1A

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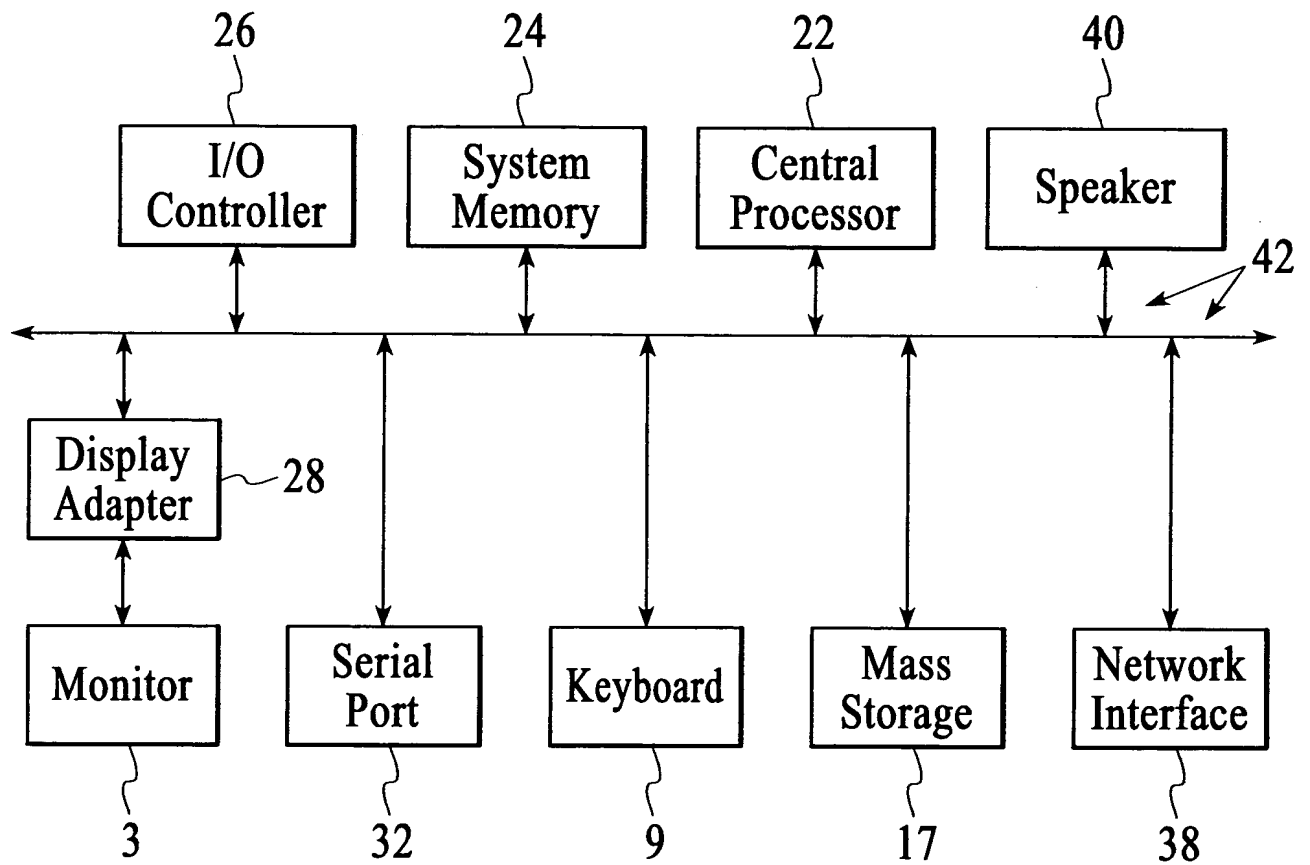


FIG.1B

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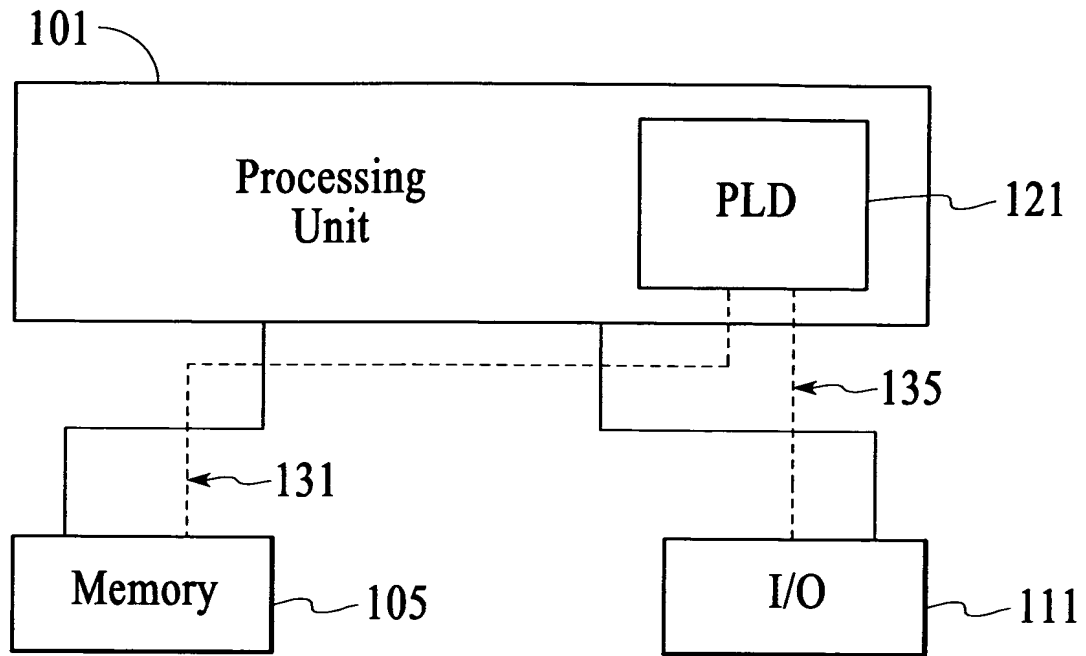


FIG.1C

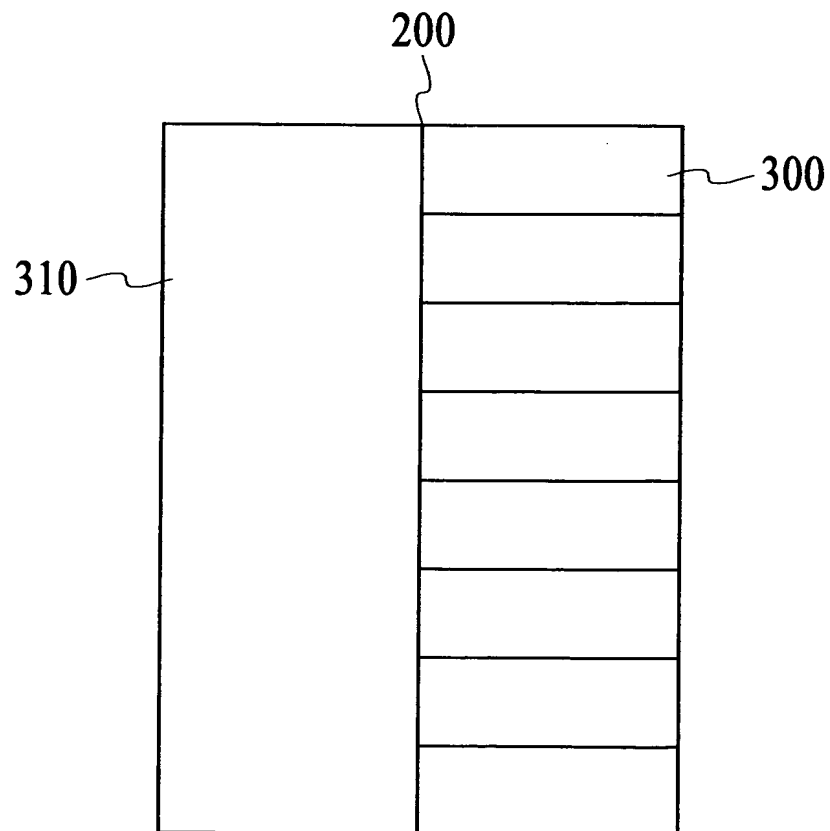


FIG.3

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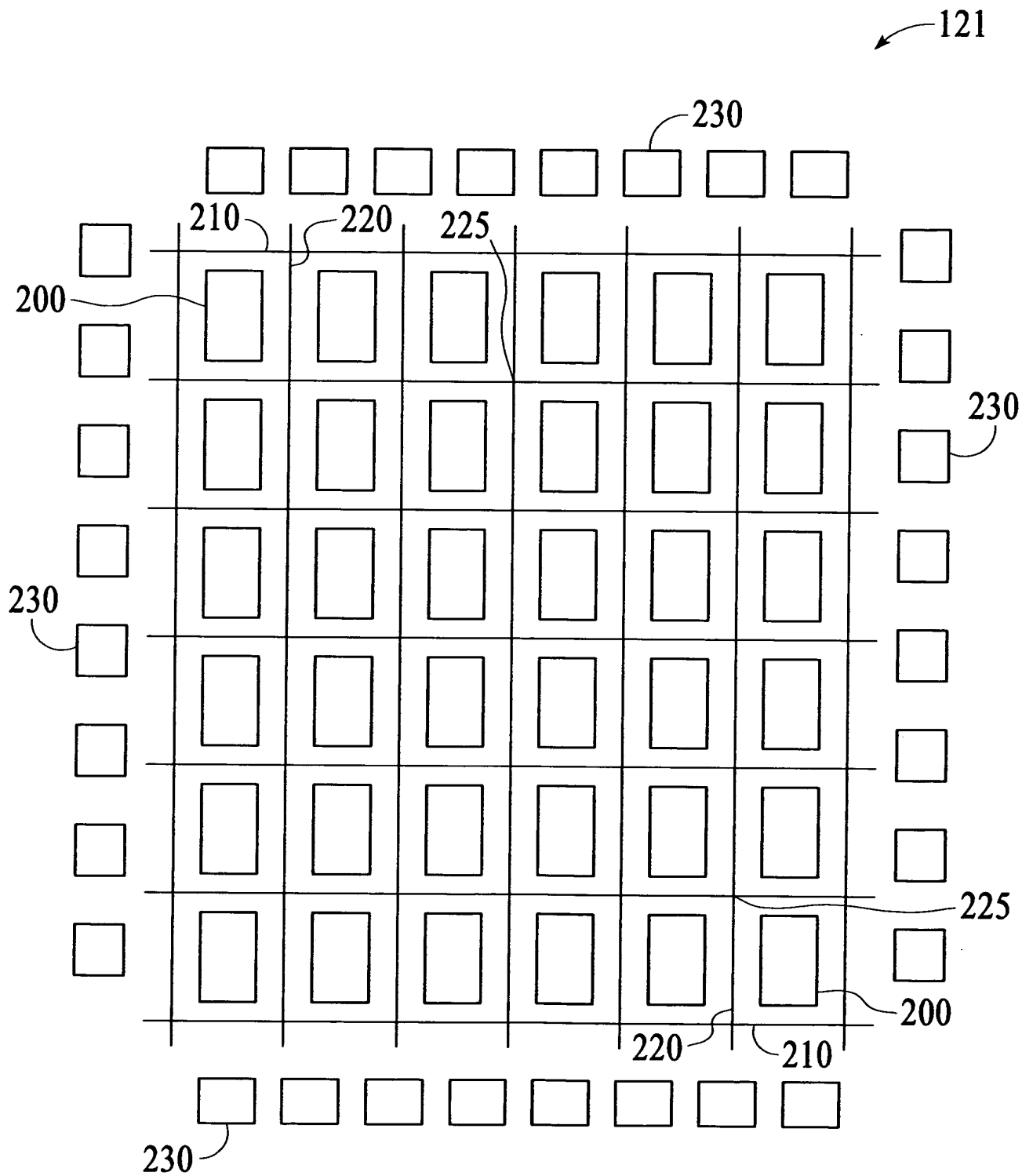


FIG.2

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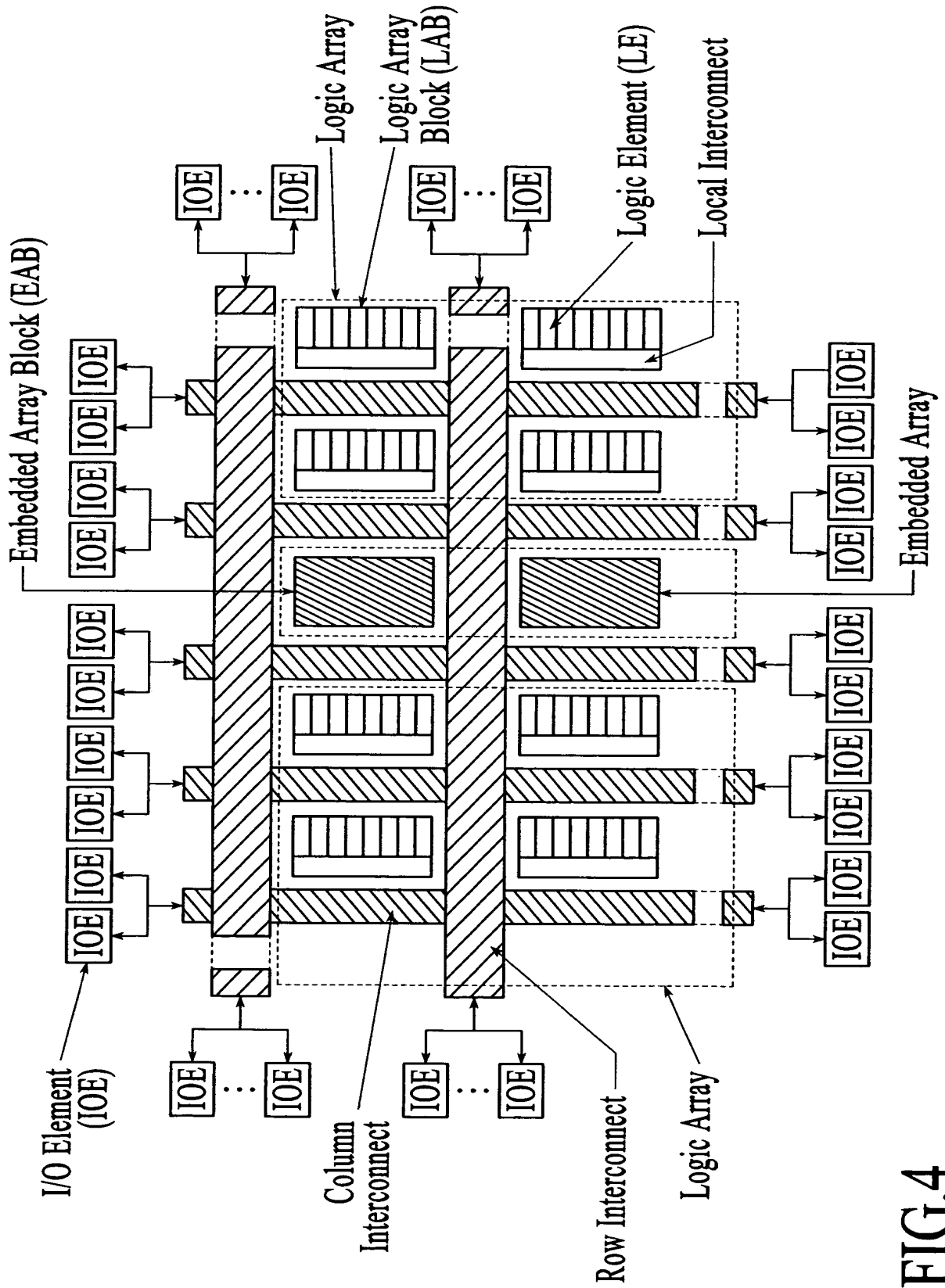


FIG.4

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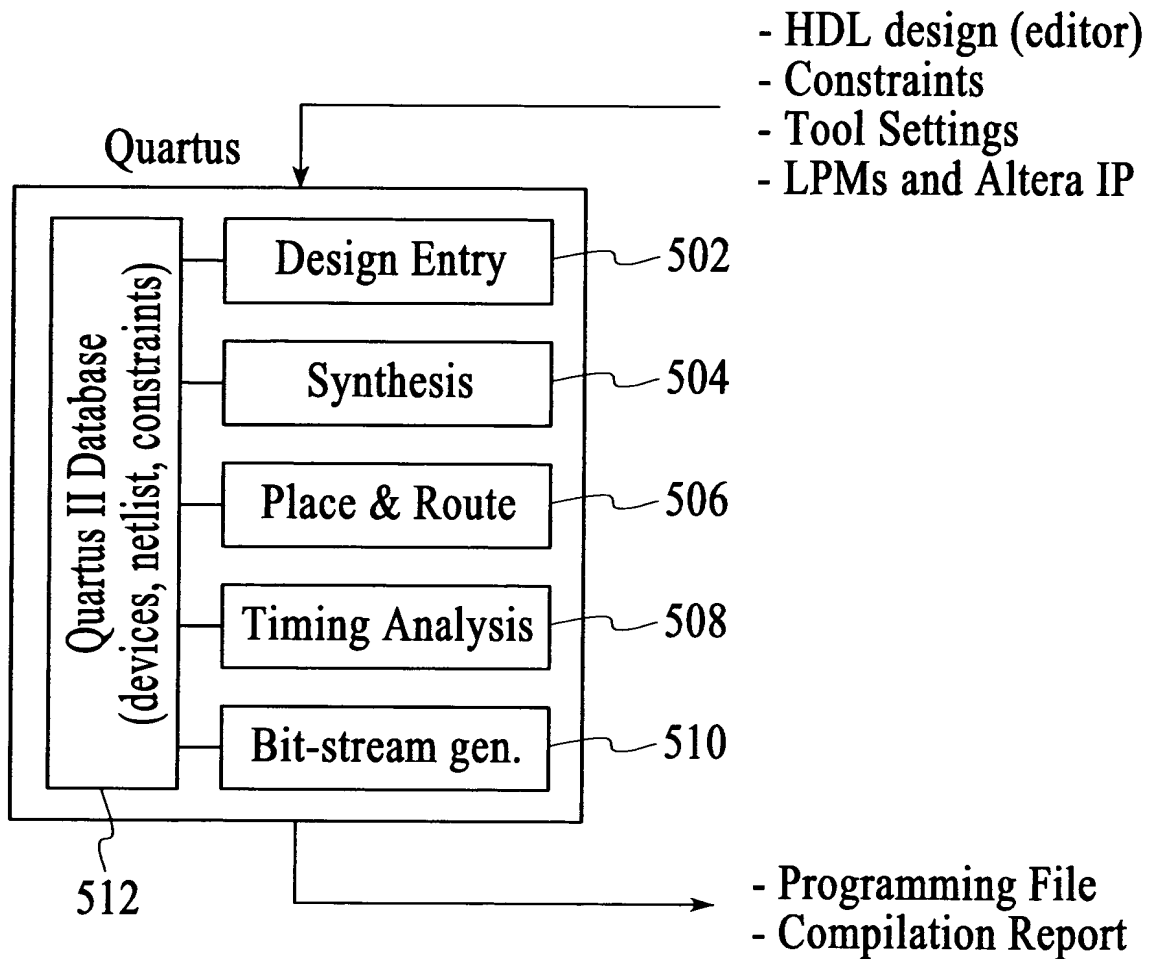


FIG.5A

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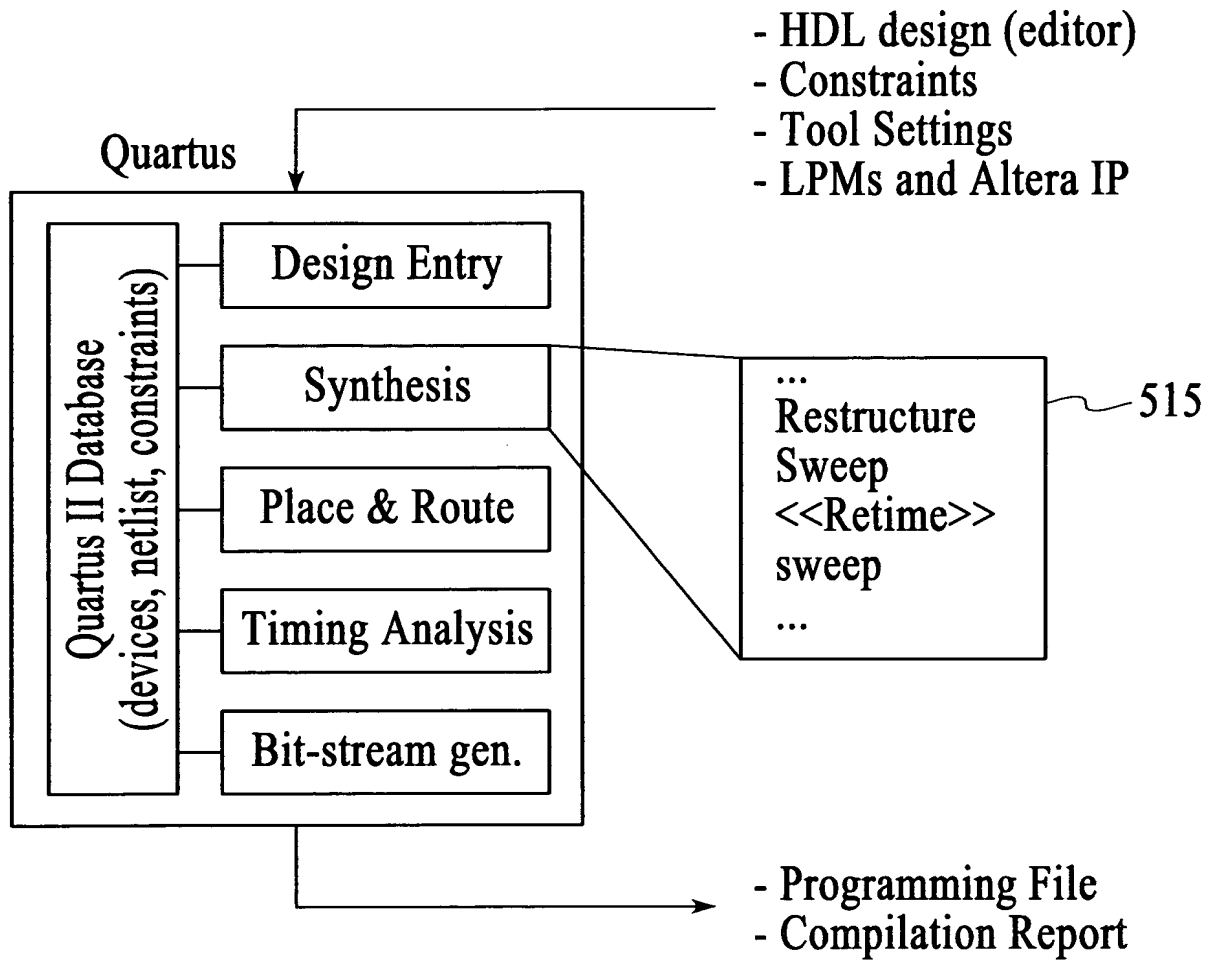


FIG.5B

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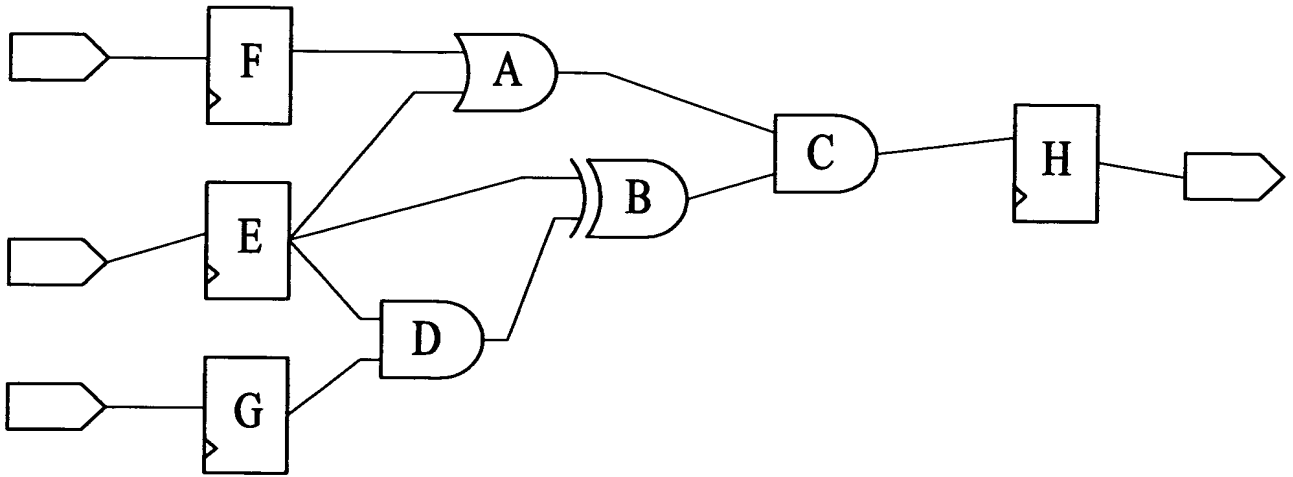


FIG. 6A

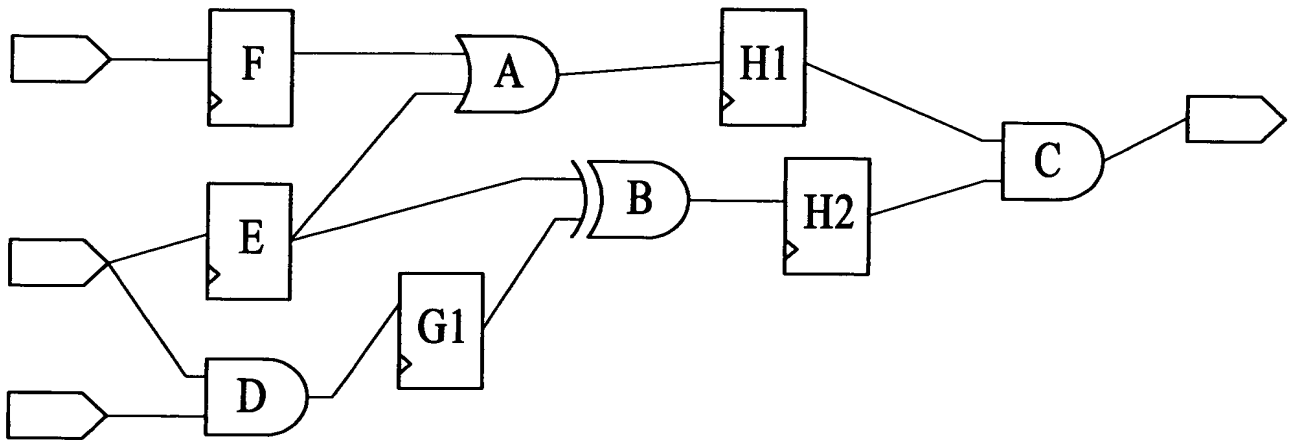


FIG. 6B

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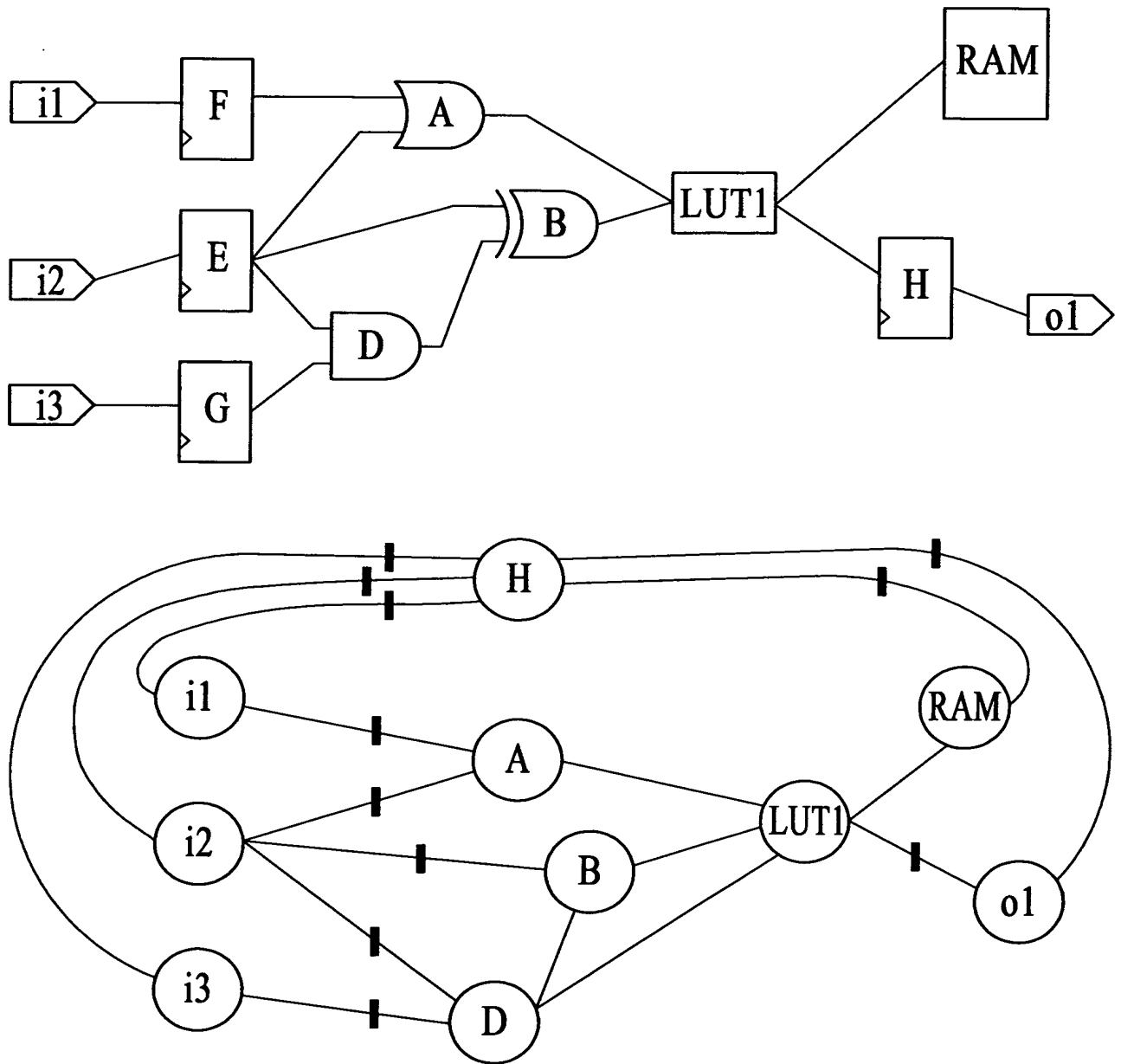


FIG. 7

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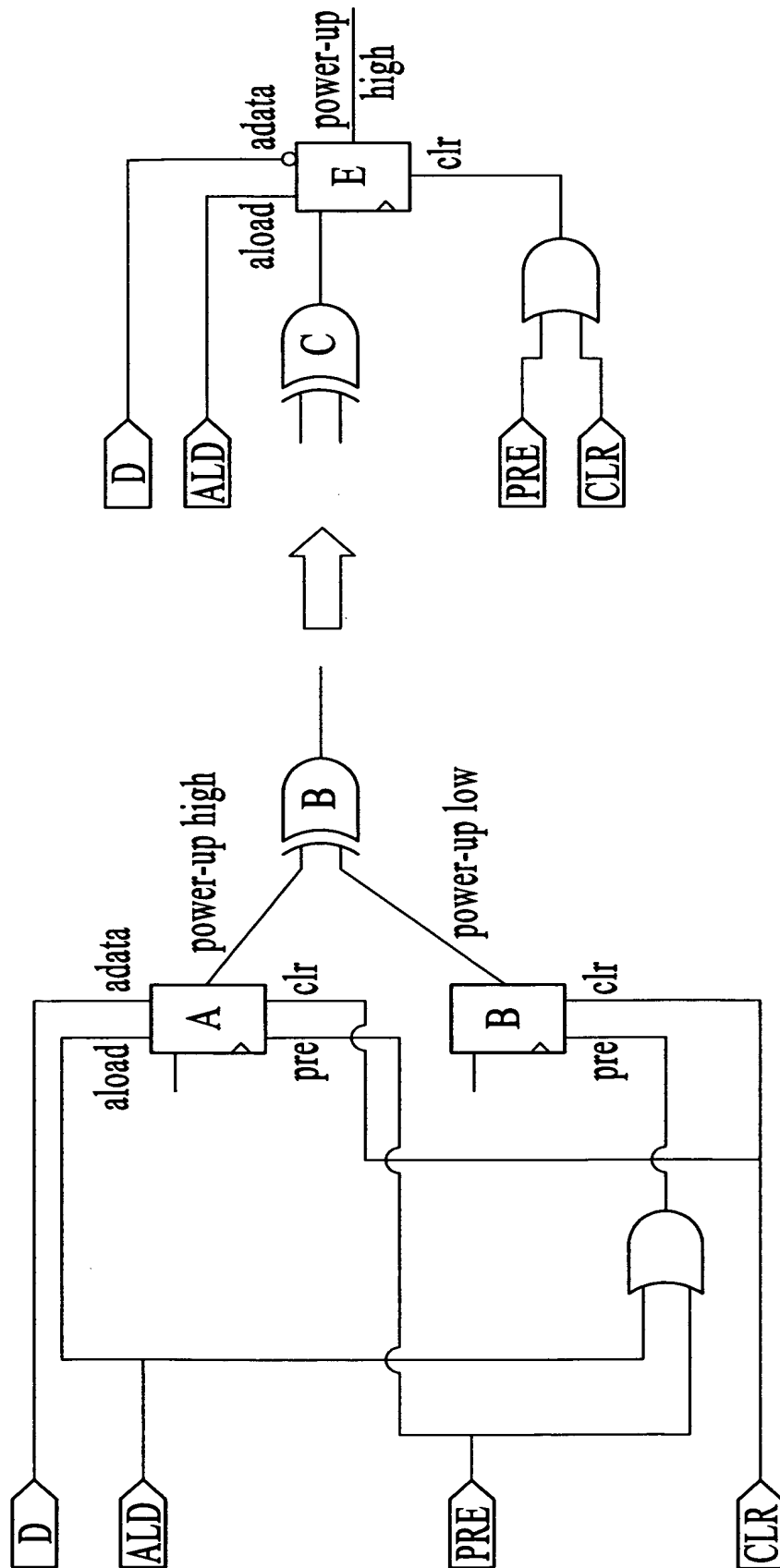
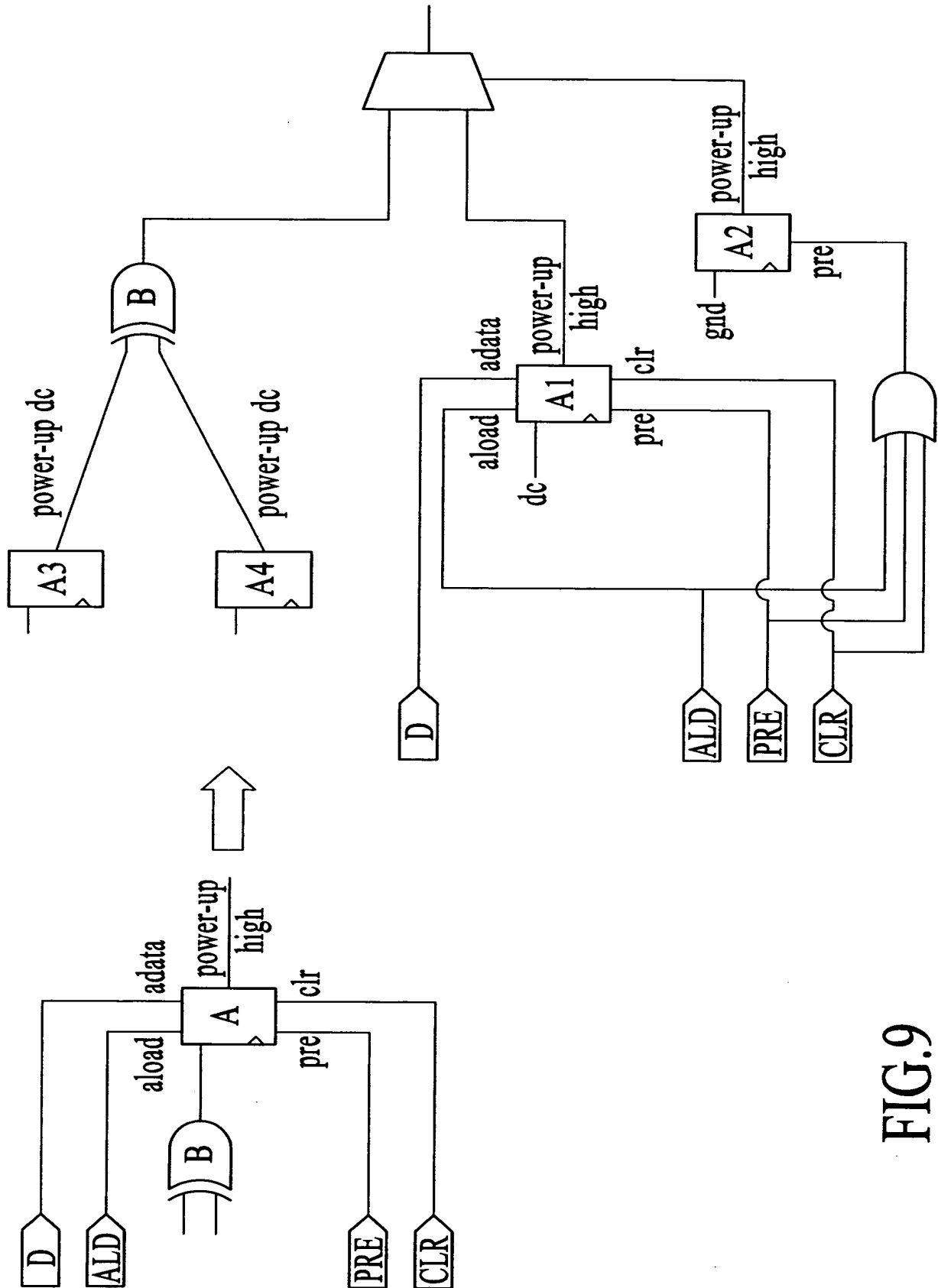


FIG.8



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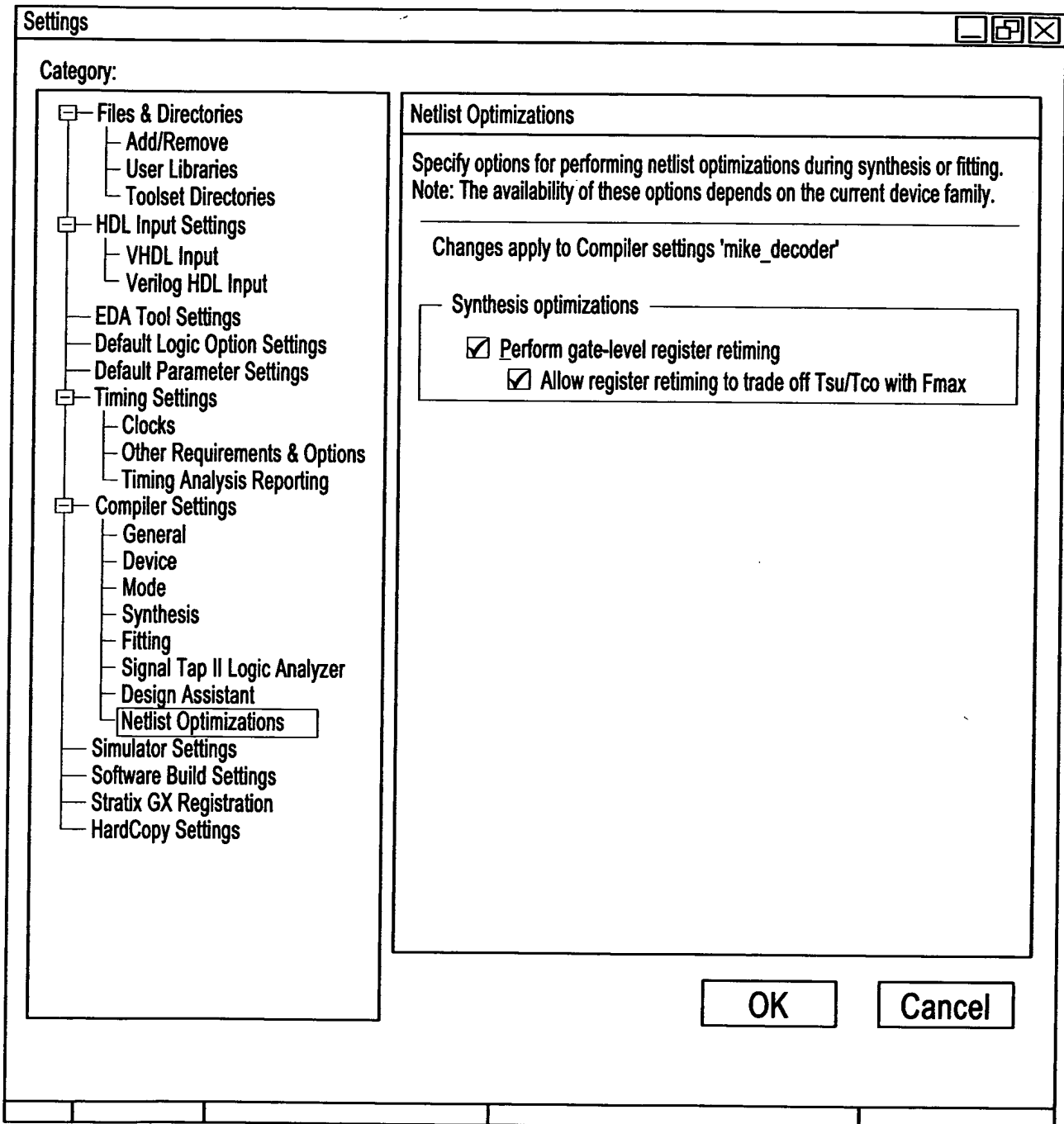


FIG.10

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FIG. 11

Quartus II - G:\tmp\blackjack\blackjack - (blackjack Compilation Report)

File Edit View Project Assignments Processing Tools Window Help

Entity

Compilation Hierarchies

Module

Module	Progre
Processing Total	100
Full Compilation	100
Analysis & Synthesis	100
Filter	100
Assembler	100
Timing Analyzer	100

Compilation Report

- Legal Notice
- Flow Summary
- Flow Settings
- Analysis & Synthesis
 - Analysis & Synthesis Summ
 - Analysis & Synthesis Settin
 - Hierarchy
 - Netlist Optimizations
 - Gate-level Retiming
 - Analysis & Synthesis Resc
 - x-h Analysis & Synthesis Equa
 - Analysis & Synthesis INI U
 - Analysis & Synthesis Mess
 - Filter
 - Assembler
 - Timing Analyzer

Gate-level Retiming

Register Name	Clock Name	Created/Deleted
1 current_card_value(3)~78	clock	Created
2 current_card_value(7)~83	clock	Created

Info: Command: quartus_map -import_settings_files-on-export_settings_files-off blackjack -c blackjack

Info: Found 1 design units and 1 entities in source file G:\tmp\blackjack\blackjack.v

Info: Inferred 0 megafunctions from design logic

Info: Performed gate-level register retiming

Info: Not allowed to move registers - 14 registers affected

Info: Not allowed to move 14 registers because they feed output pins directly

Info: Quartus II software applied gate-level register retiming to 1 clock domains

Info: Quartus II software applied gate-level register retiming to clock clock: created 2 new registers, removed 0 registers, left 23 registers untouched

Info: Implemented 106 device resources after synthesis - the final resource count might be different

Info: Quartus II Analysis & Synthesis was successful. 0 errors, 0 warnings

Info: Writing report to file blackjack.map.rpt

Info: Running Quartus II Filter

Info: Command: quartus_fit -import_settings_files-off-export_settings_files-off blackjack -c blackjack

Processing System

For Help, press F1

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FIG.12

