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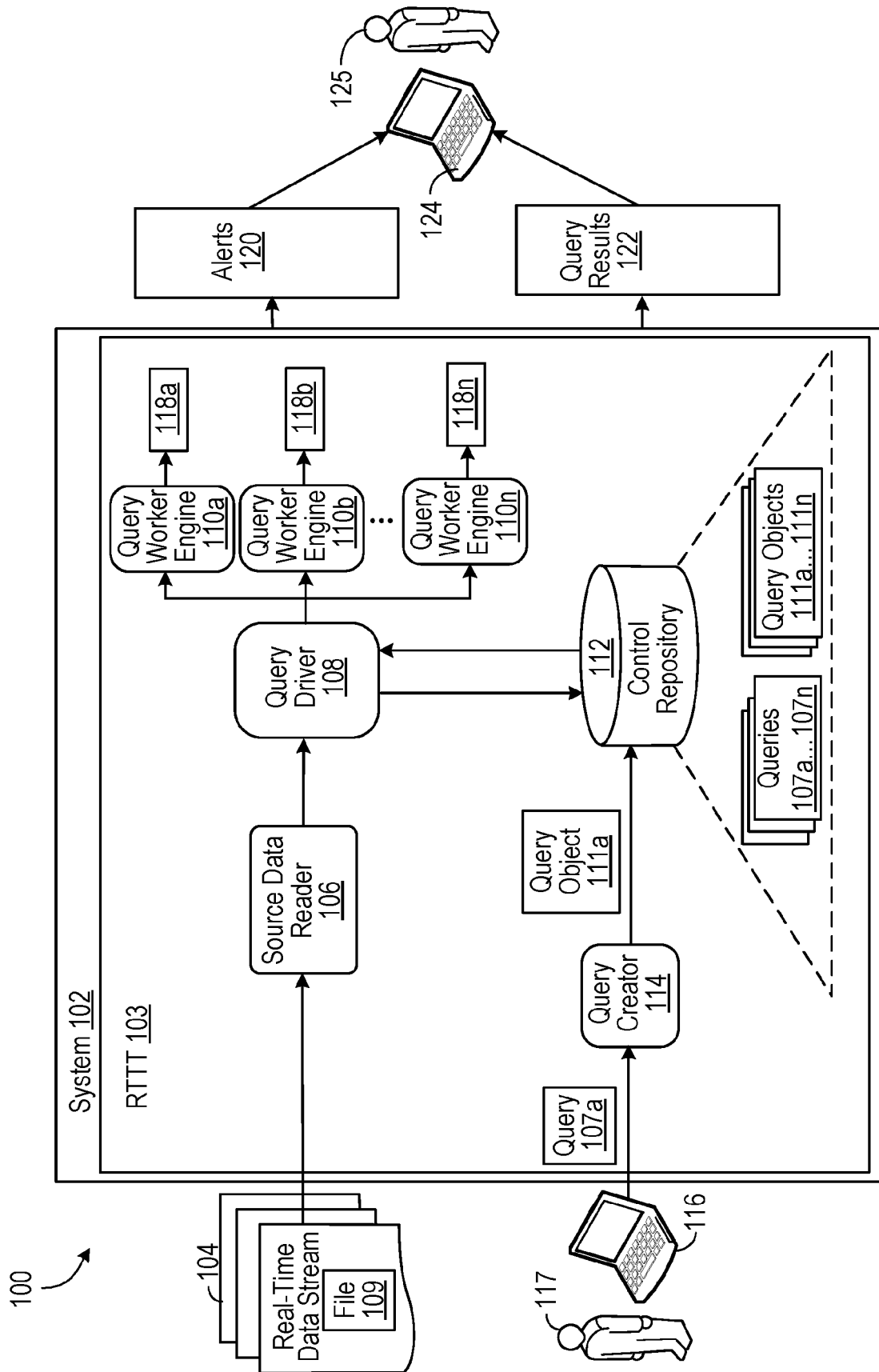


FIG. 1

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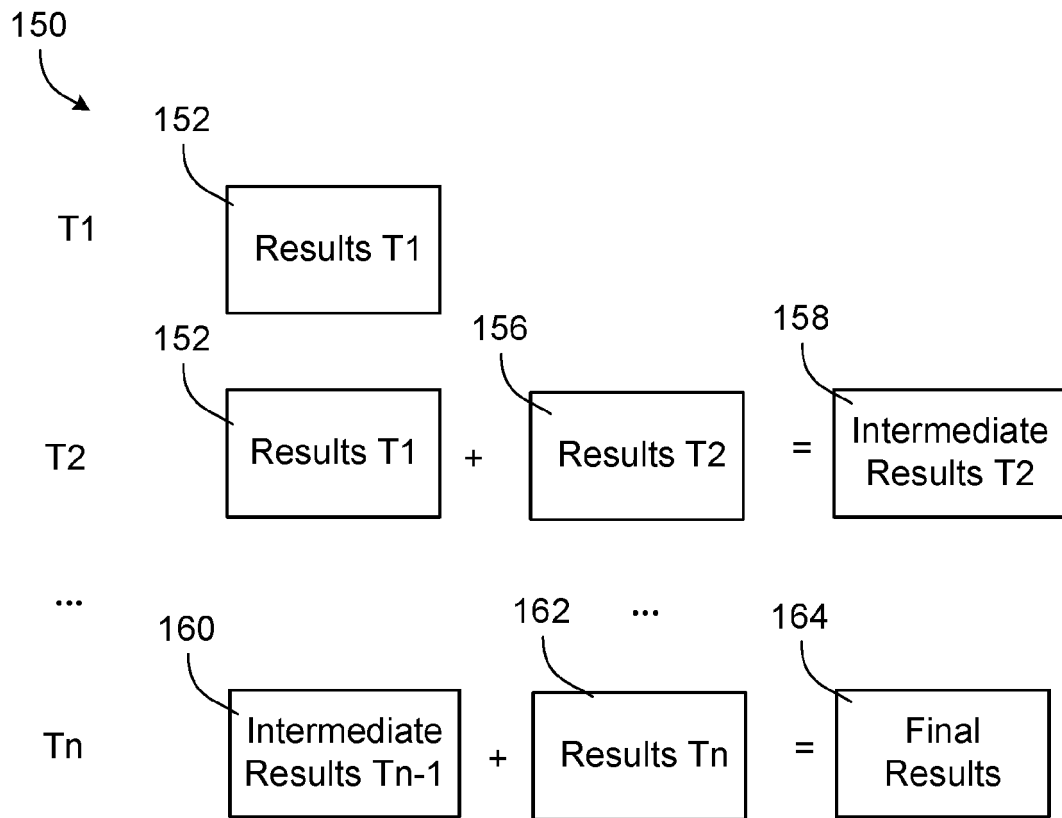


FIG. 2

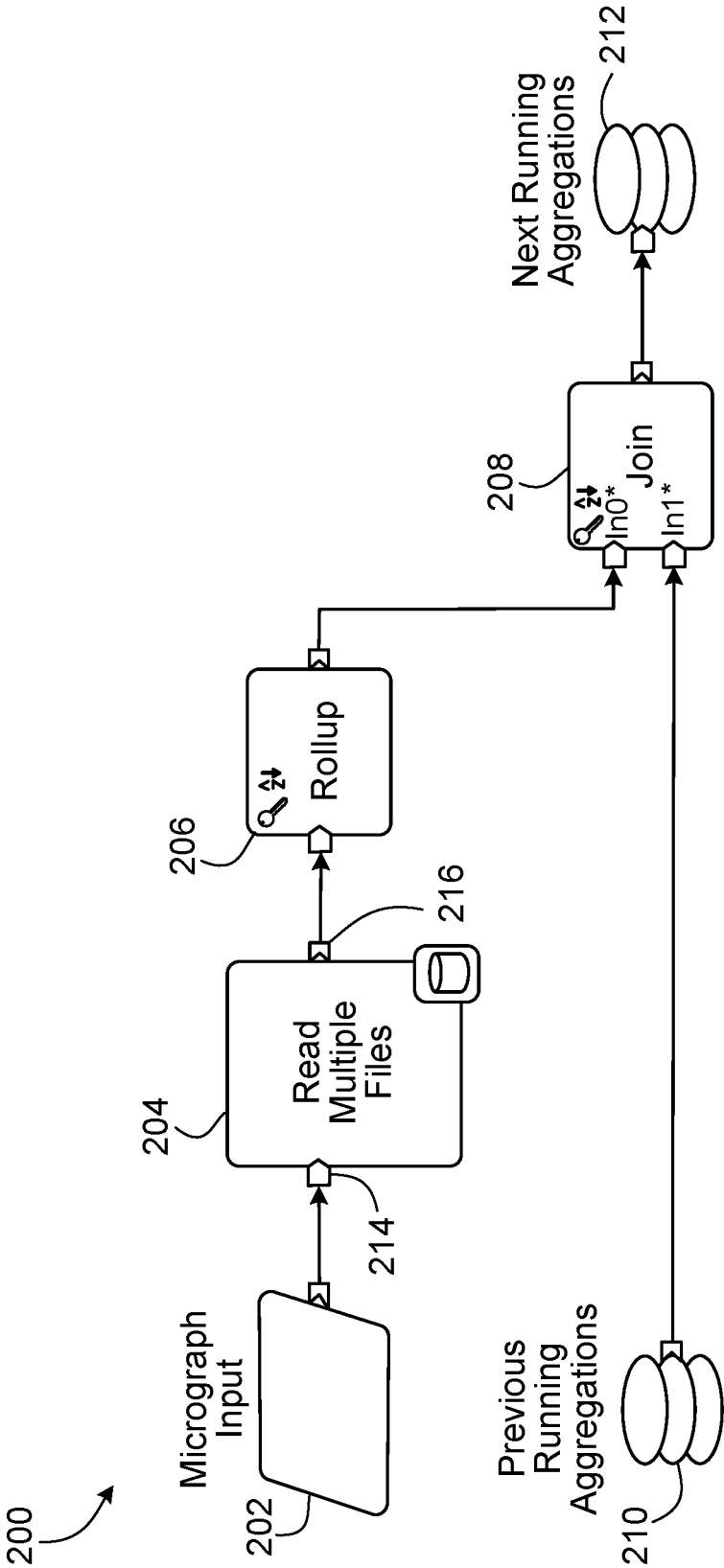


FIG. 3

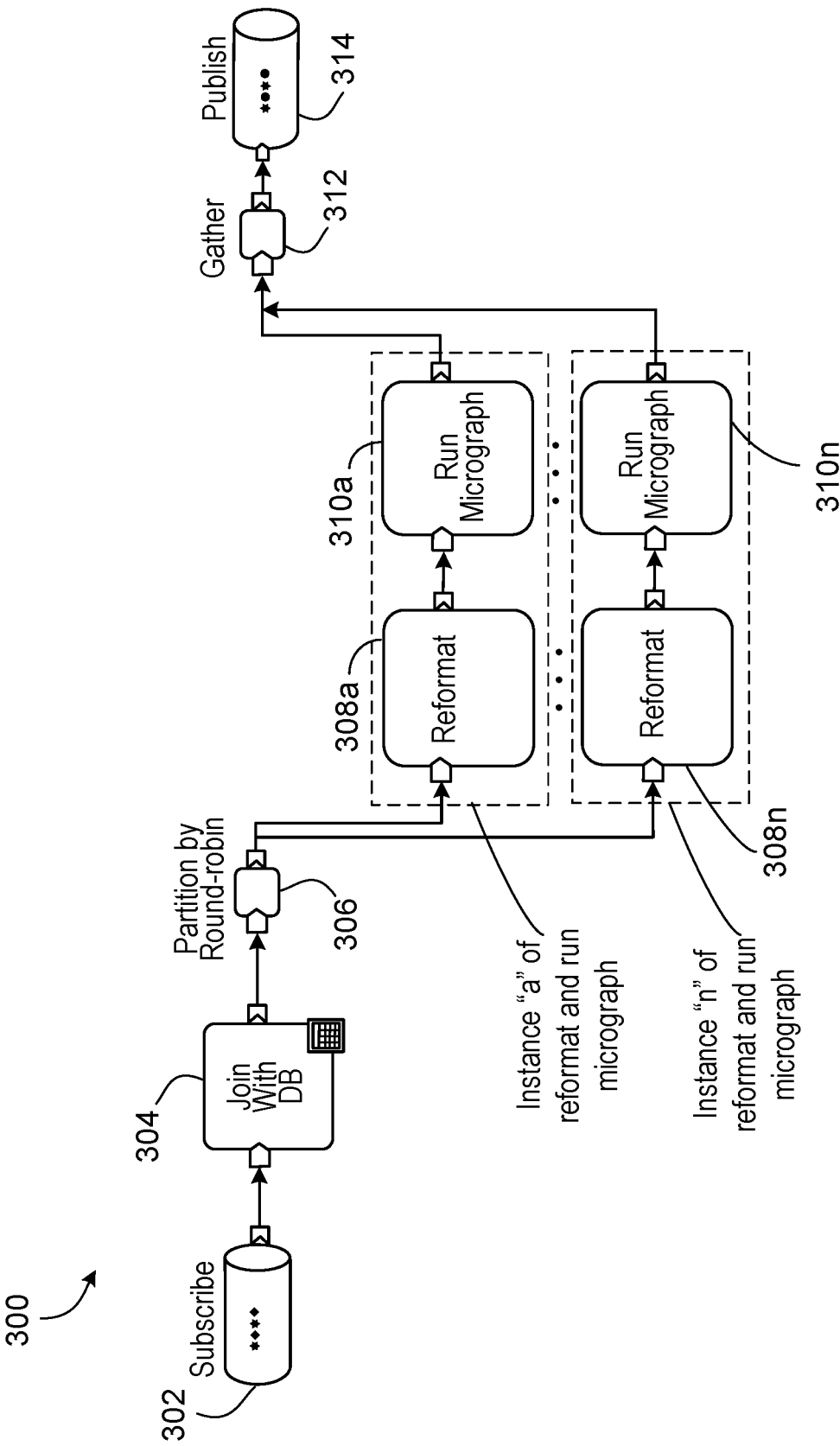


FIG. 4

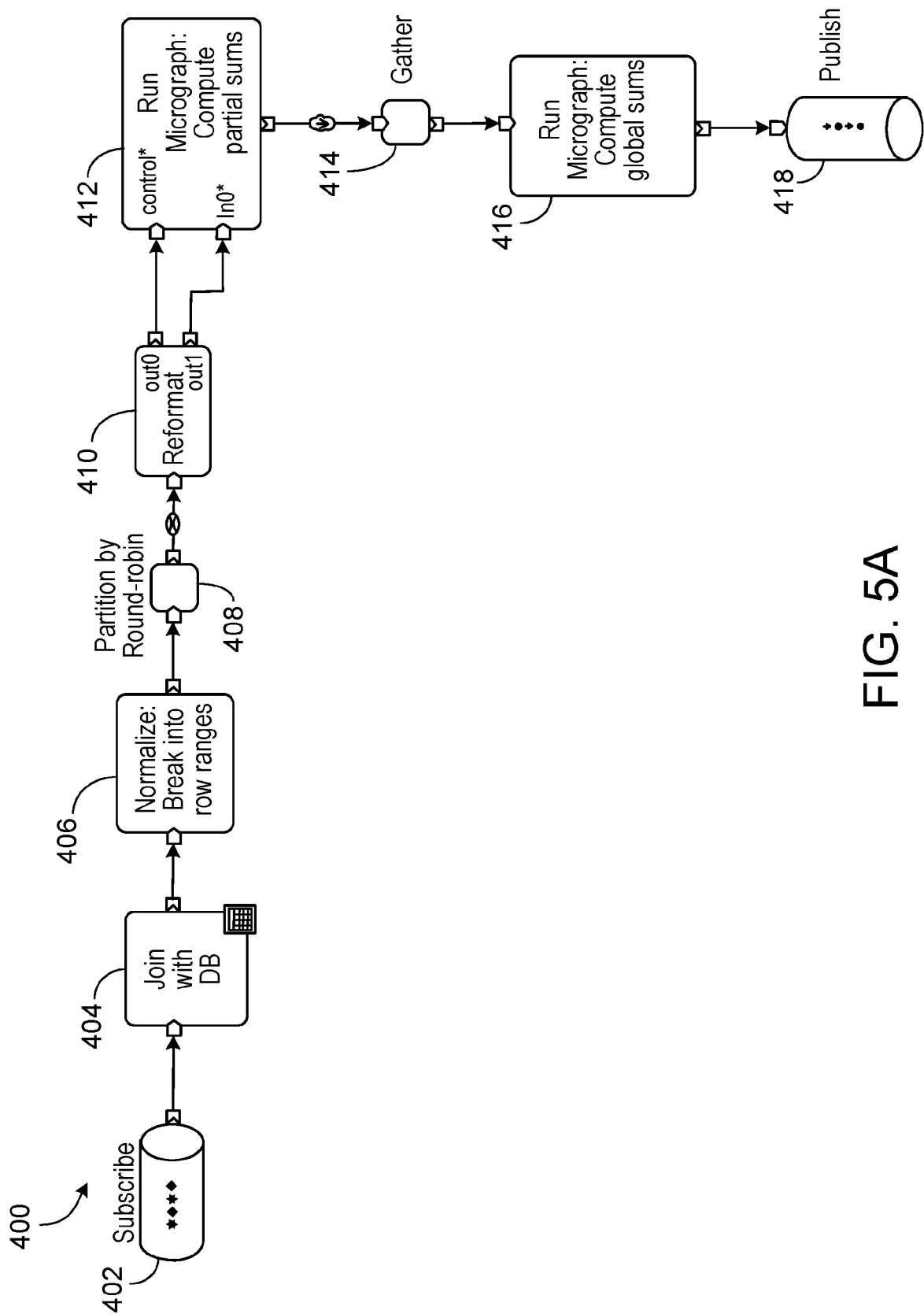


FIG. 5A

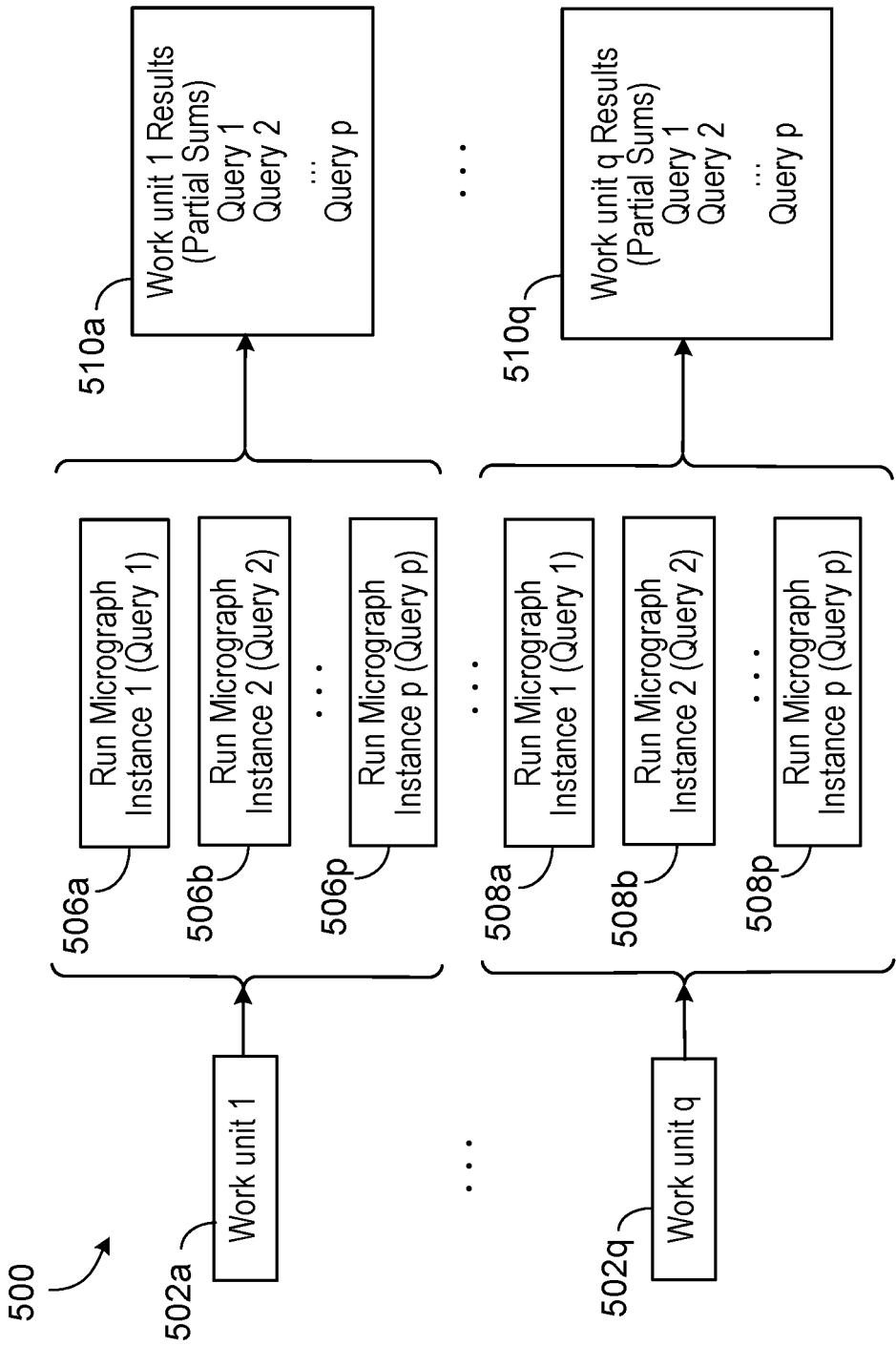


FIG. 5B

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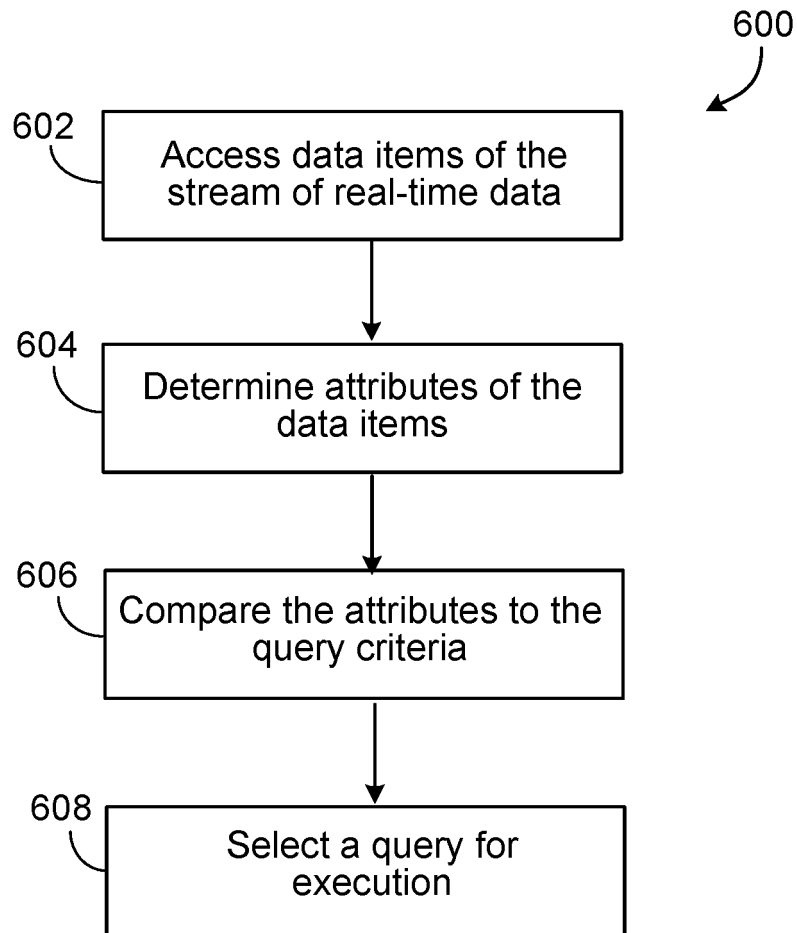


FIG. 6

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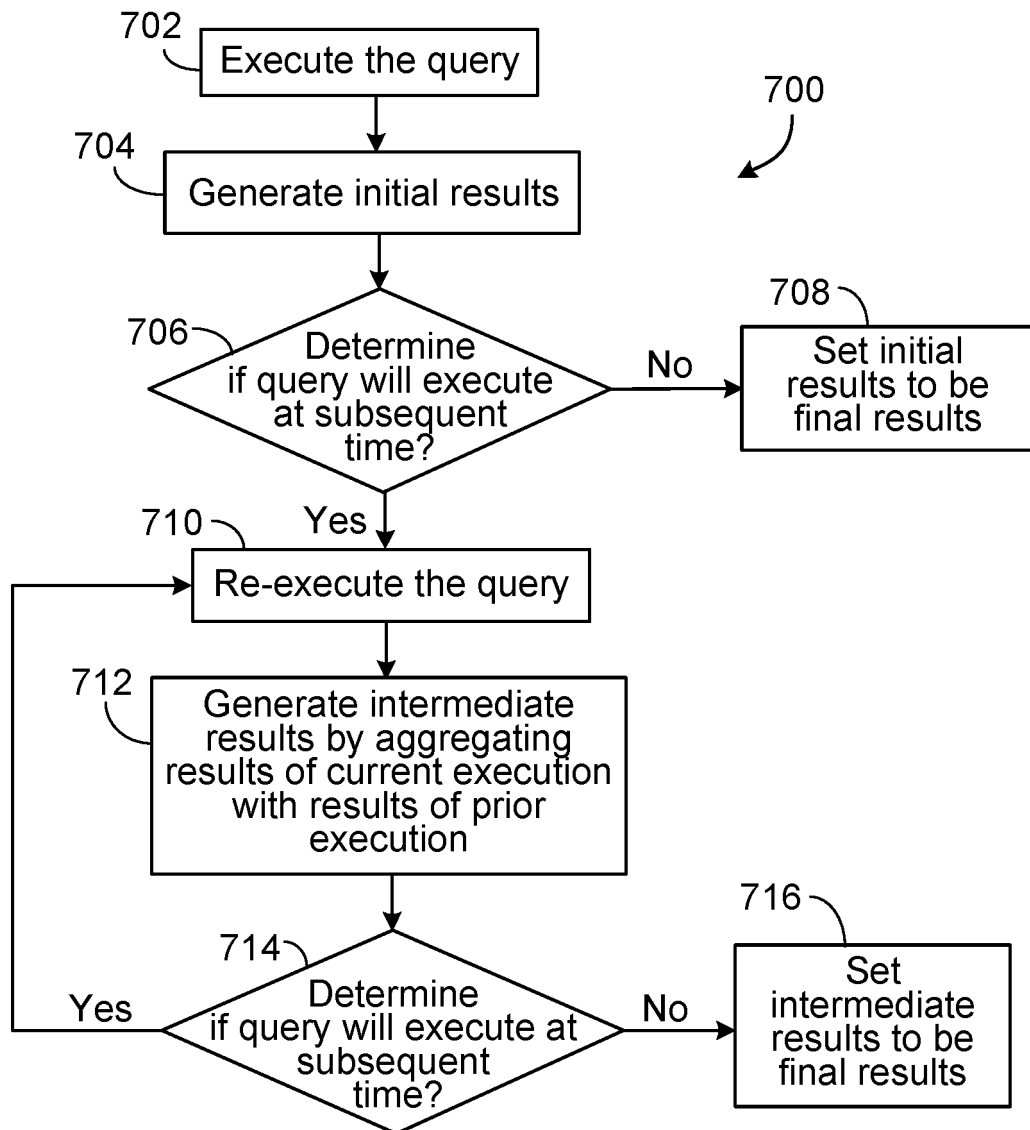


FIG. 7

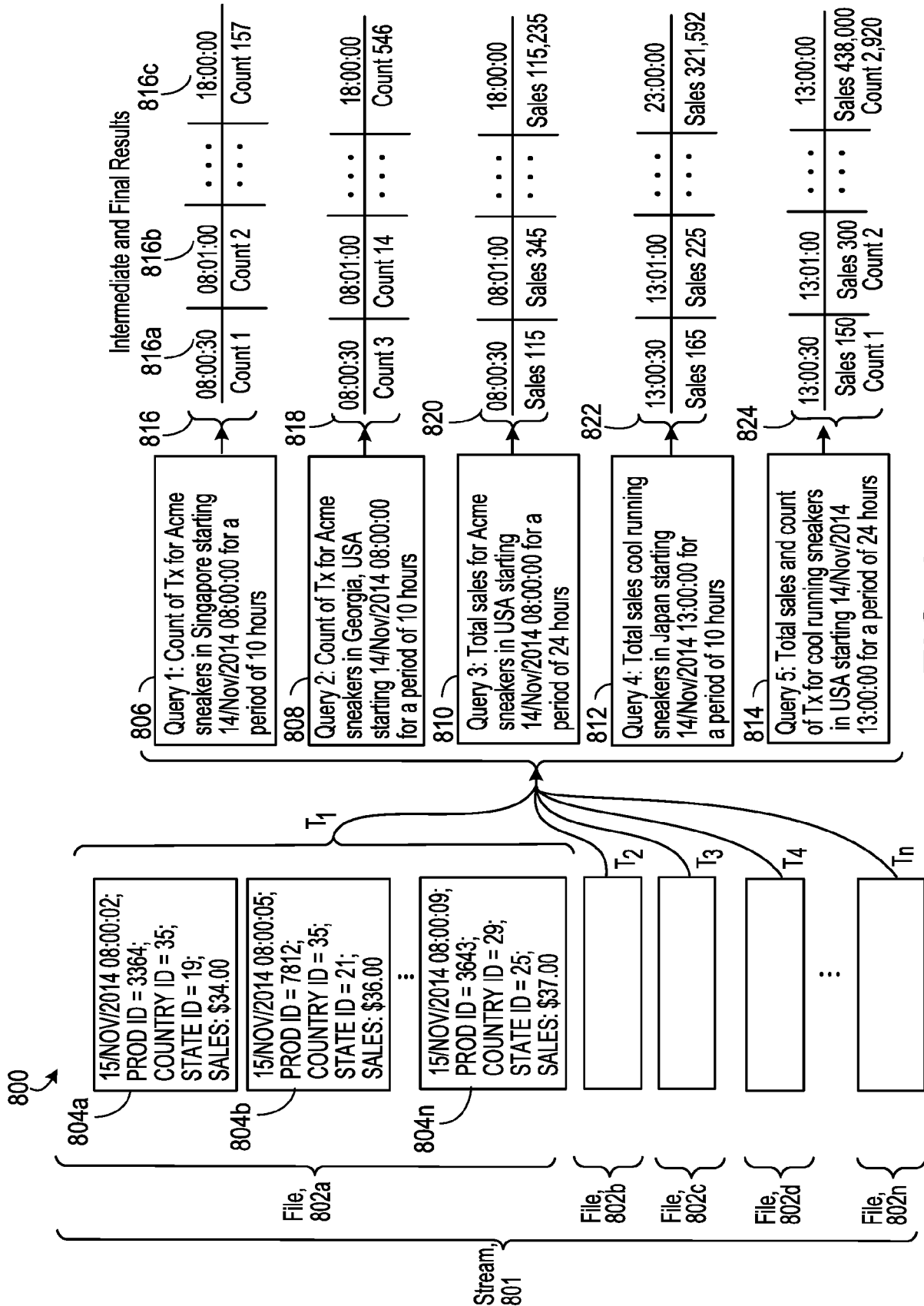


FIG. 8

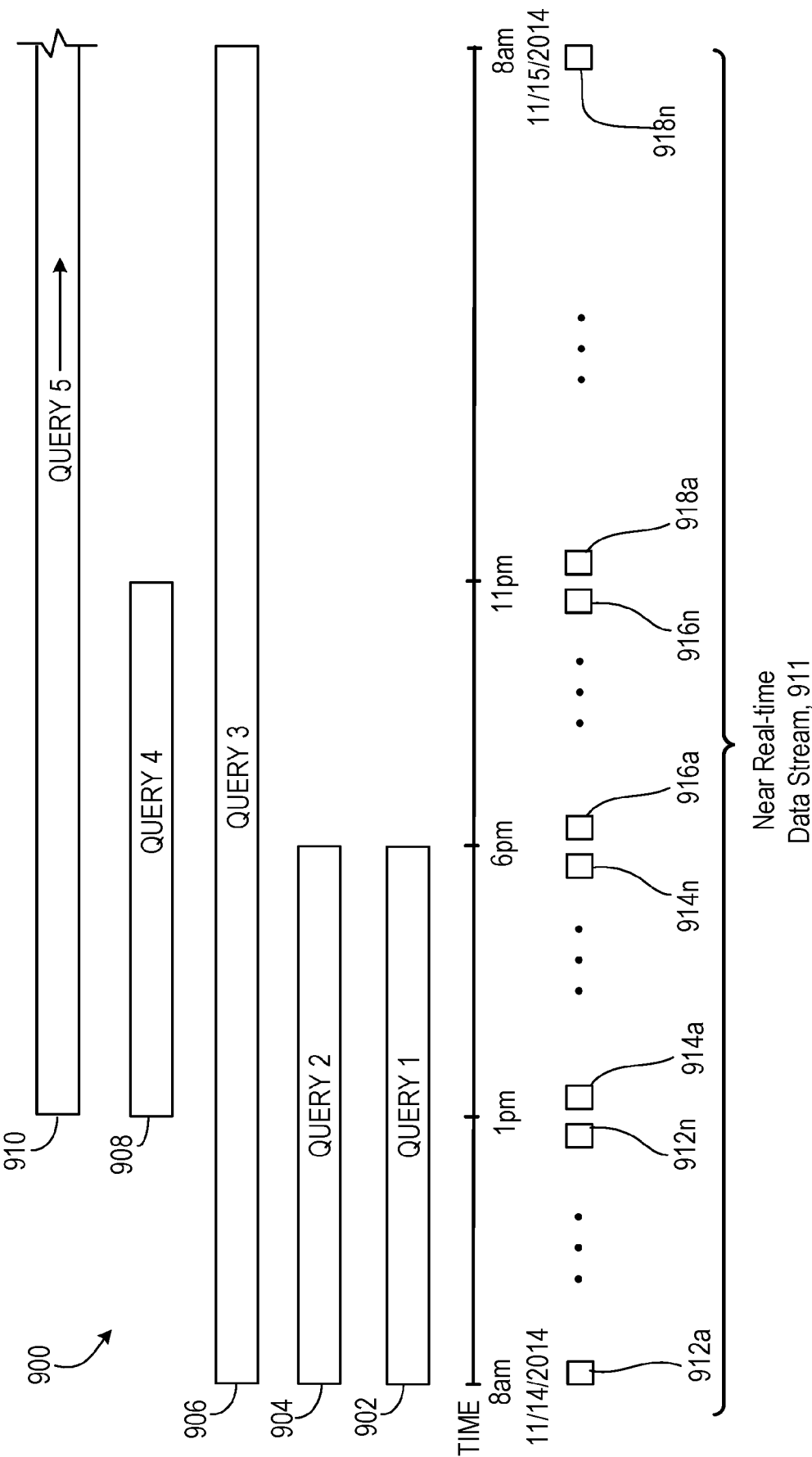


FIG. 9

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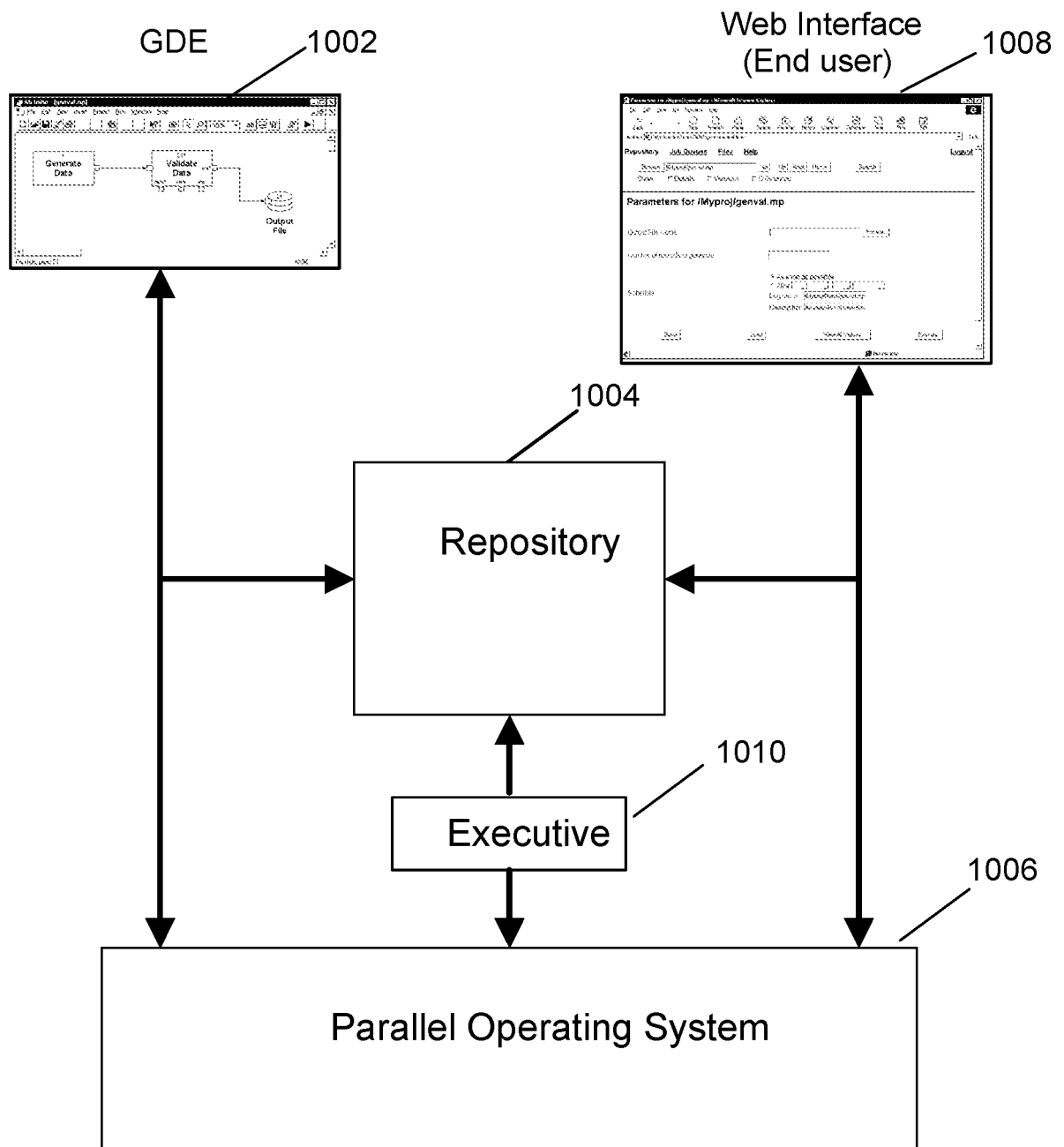


FIG. 10A

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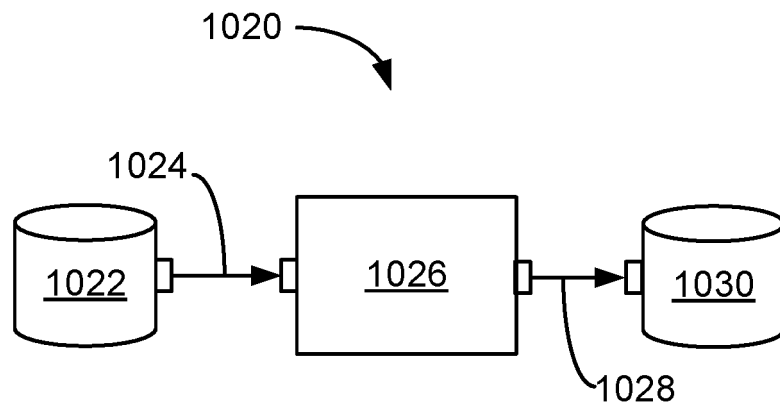


FIG. 10B

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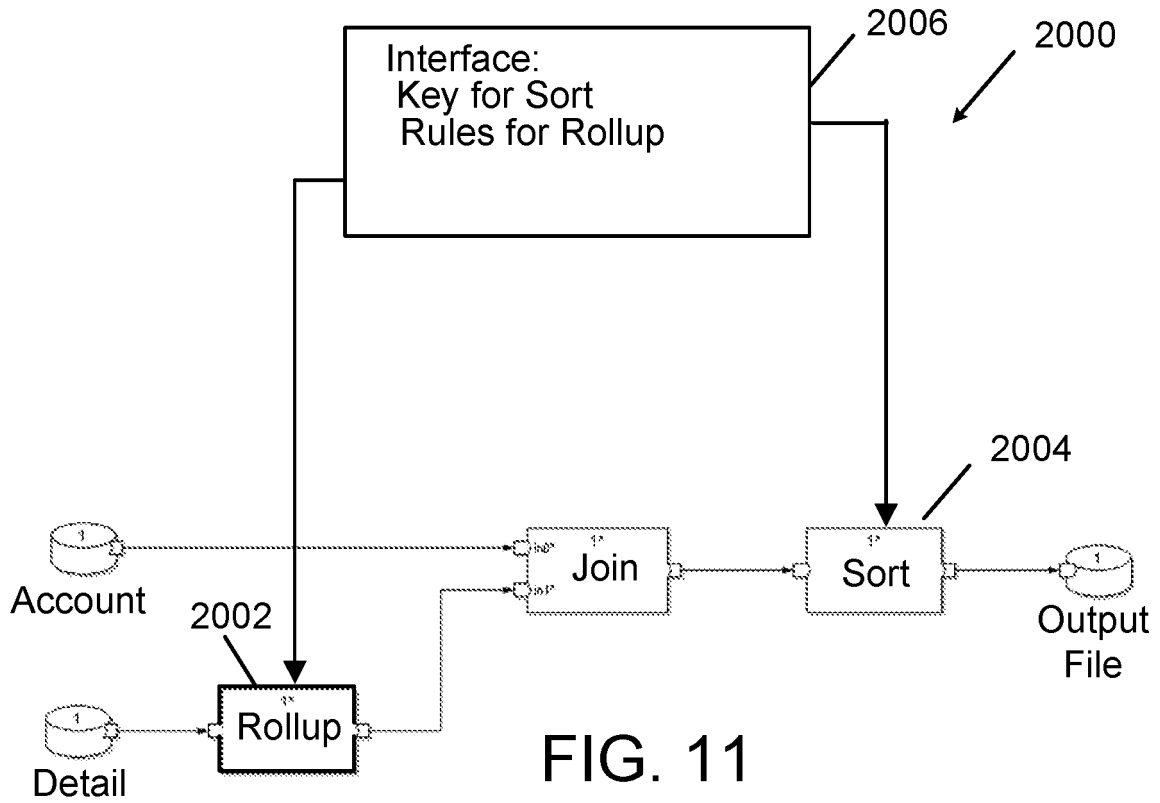
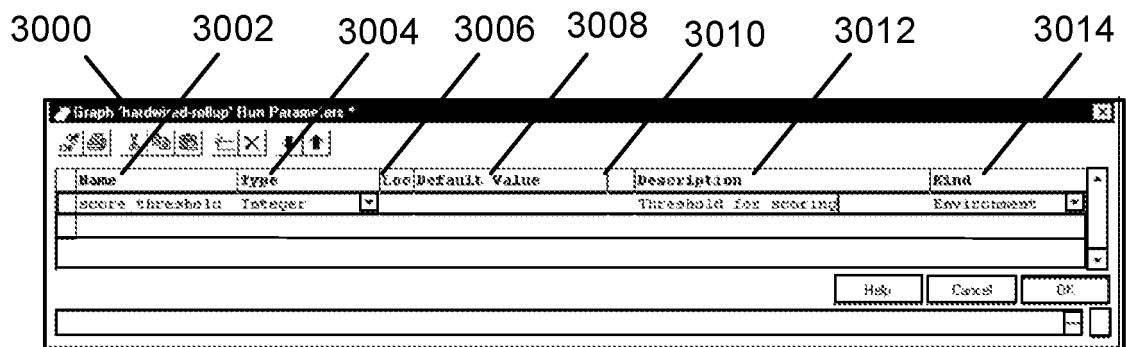


FIG. 12

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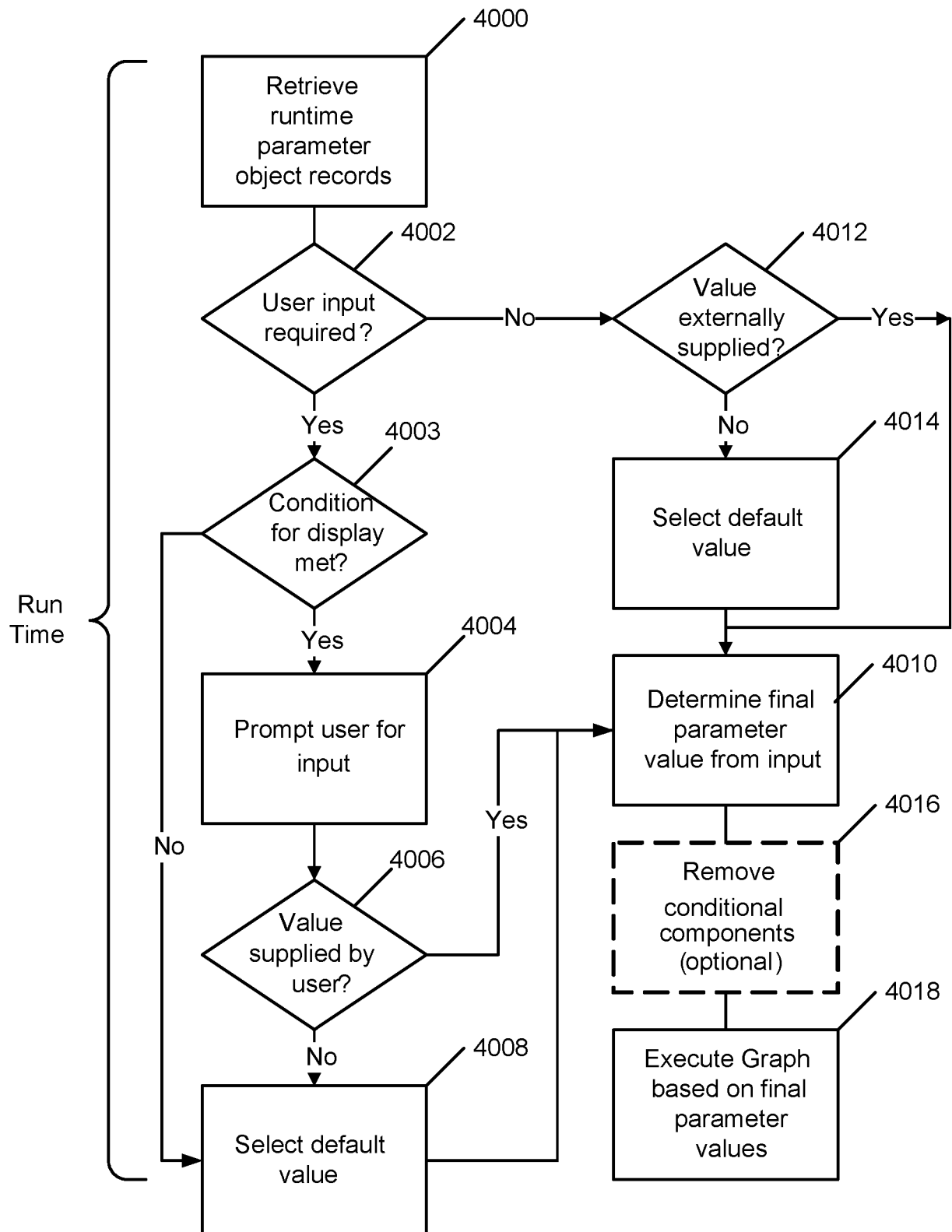


FIG. 13

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5002 5004 5000

last_name	☒ descending
first_name	☒ descending
	☐ descending

FIG. 14

6002 6006 6000

	cust_id	==	
AND	last_name	==	
AND	first_name	==	
AND	street_addr	==	
AND	state	==	
AND	zip	==	
AND	gender	==	
AND	income	==	
AND	newline	==	
AND			

6004

FIG. 15

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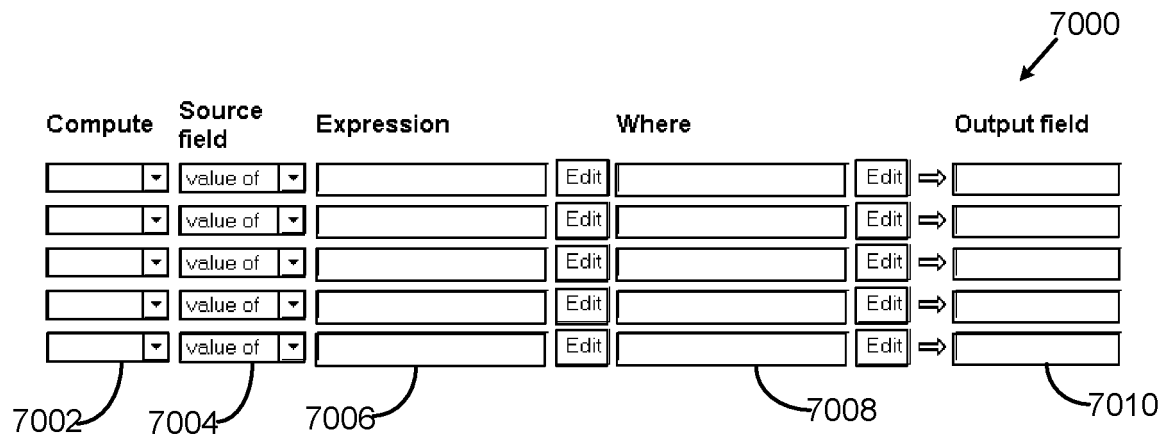


FIG. 16

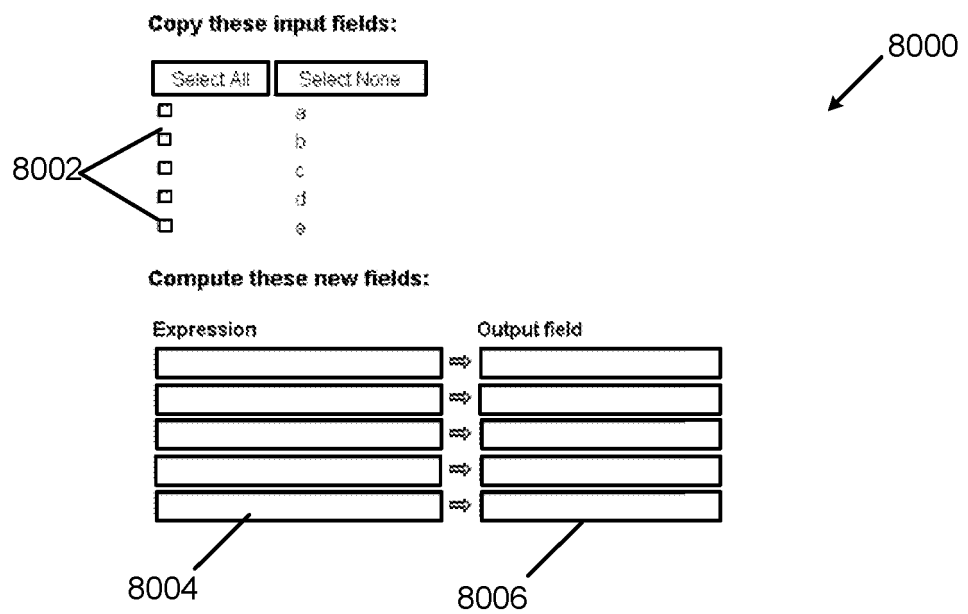


FIG. 17

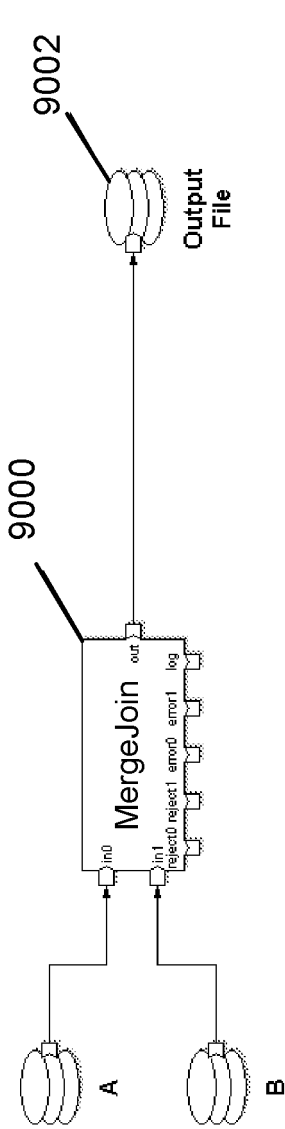


FIG. 18A

Join A and B

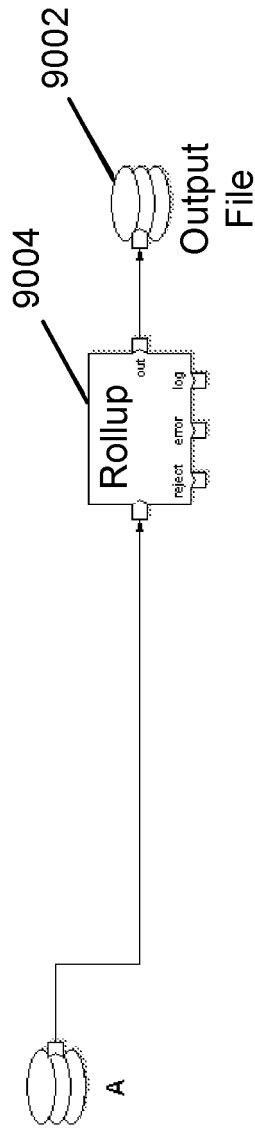


FIG. 18B

Aggregate A

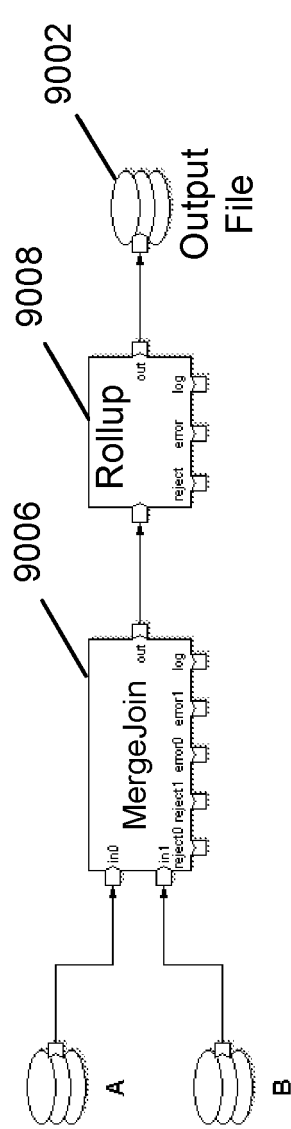


FIG. 18C

Join A & B, then aggregate

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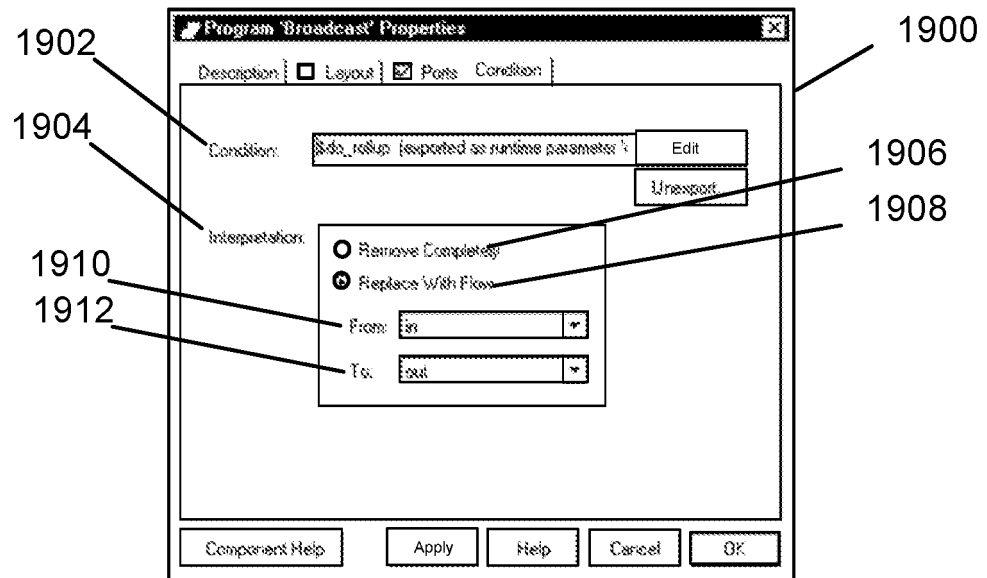
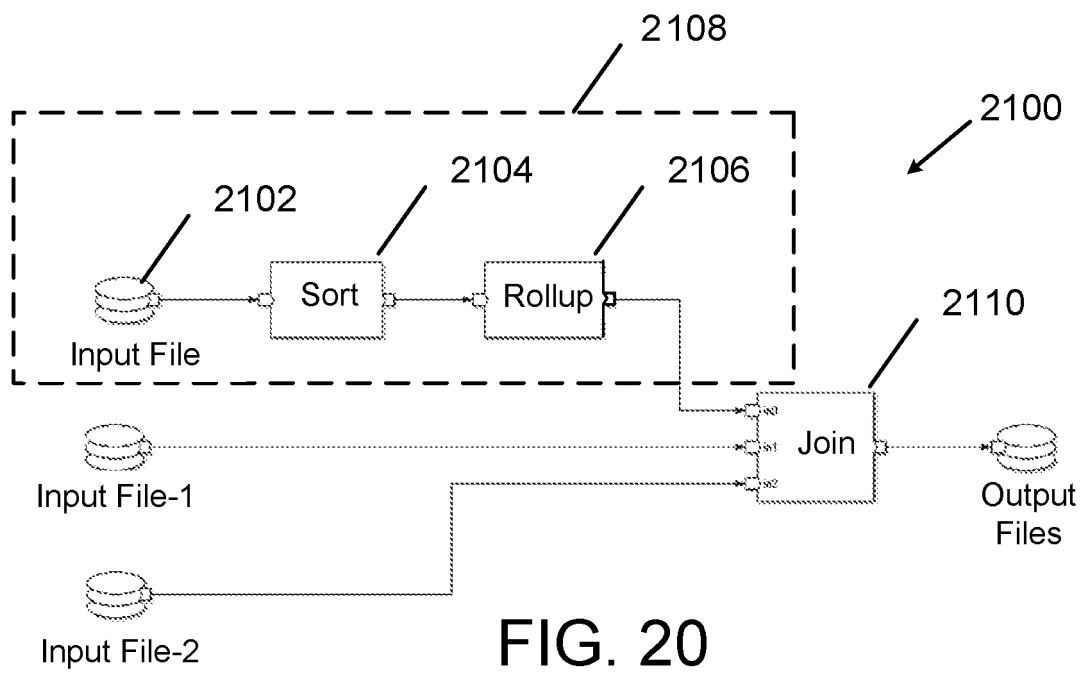


FIG. 19

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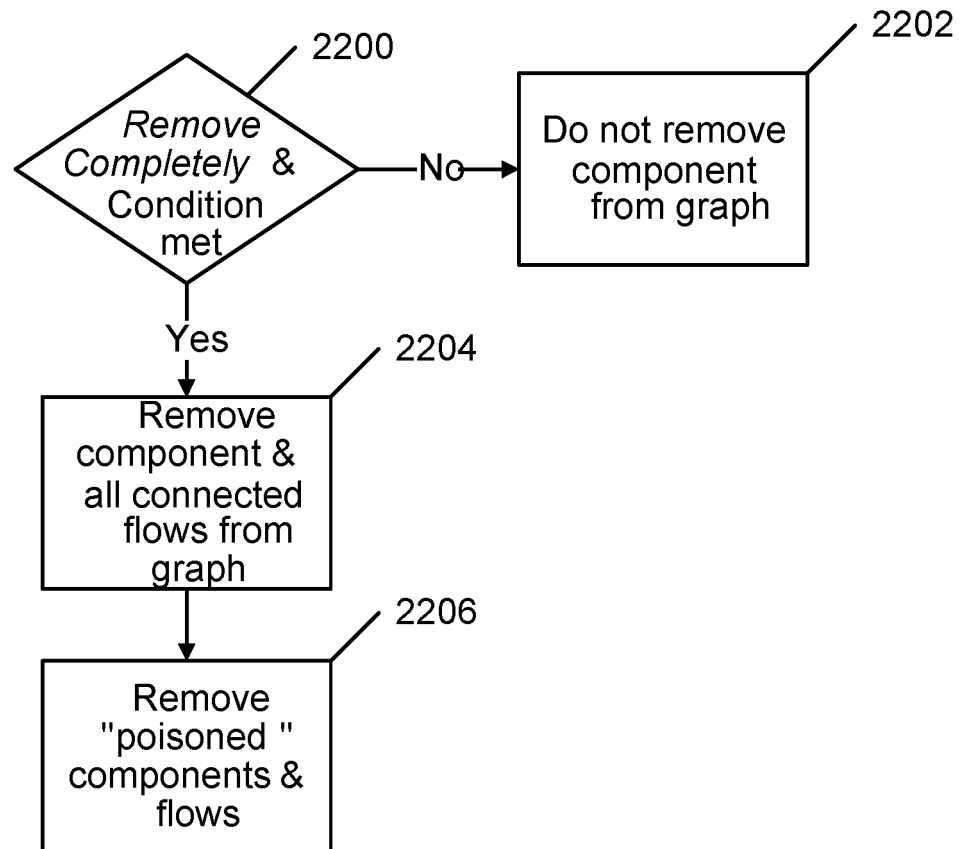


FIG. 21

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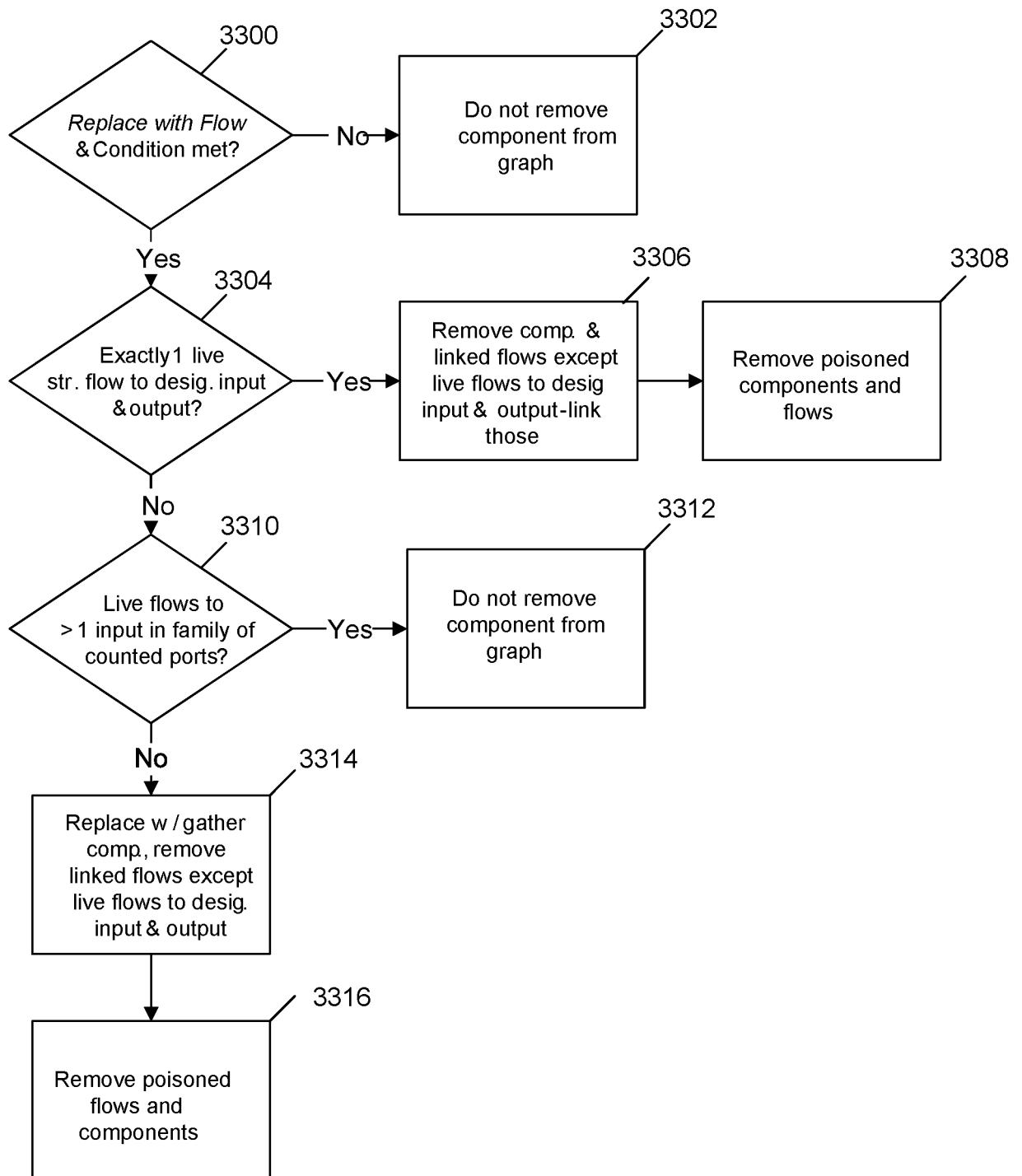


FIG. 22

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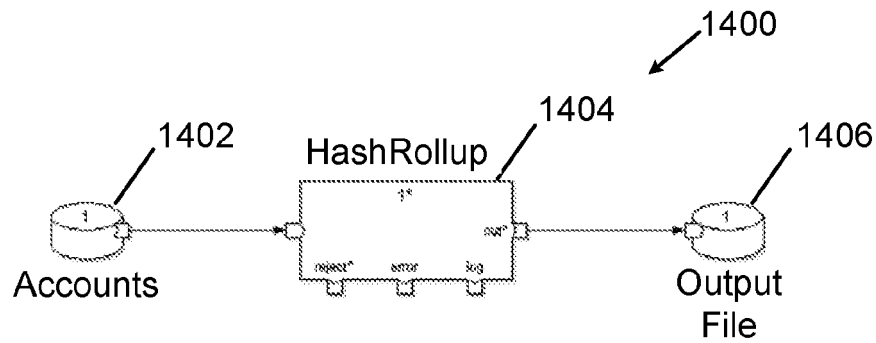


FIG. 23

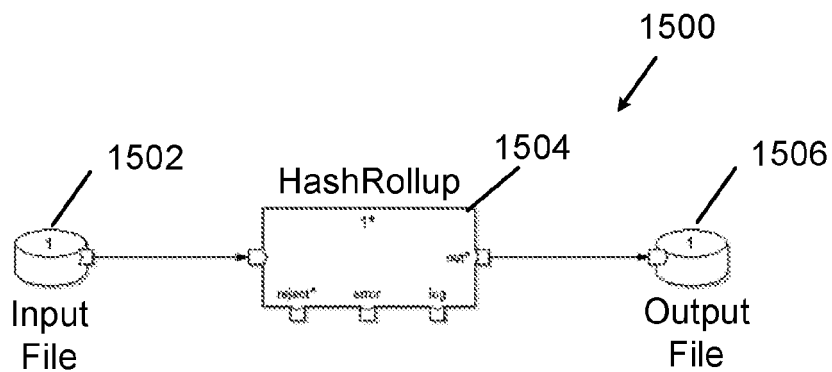


FIG. 24

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Name	Type	Loc	Default Value	Description	Kind
input_rpath	String		\$(prompt_for "rpath,inplace")	Input dataset reposi	CDL
input_path	String		\$(dataset_url \$input_rpath)		CDL
input_format	Record Format	Emb	\$(dataset_type \$input_rpath)		CDL
rollup_key	Collator		\$(prompt_for "key", \$input_format)	Key to rollup by	CDL
rollup_transform	Transform	Emb	\$(prompt_for "rollup", \$input_format, \$rollup_key)	Rollup rules	CDL
output_format	Record Format	Emb	\$(find_in \$rollup_transform, "result_type")		CDL
output_path	String		\$(prompt_for "text,inplace", 35)	Output path	CDL

Help Cancel OK

FIG. 25

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1700

1702

1704

1706

1708

Input dataset repository path

Browse

Key to rollup by

Unset

Edit

Rollup rules

No rules

Edit

Output path

FIG. 26A

1700

1702

1704

1706

1708

1710

1712

1714

1716

Input dataset repository path

/Schema/Warehouse/CallDetail

Browse

Key to rollup by

dt

Edit

Rollup rules

max(duration) ⇒ max_duration

min(duration) ⇒ min_duration

records ⇒ num_calls

Edit

Output path

results.dat

FIG. 26B

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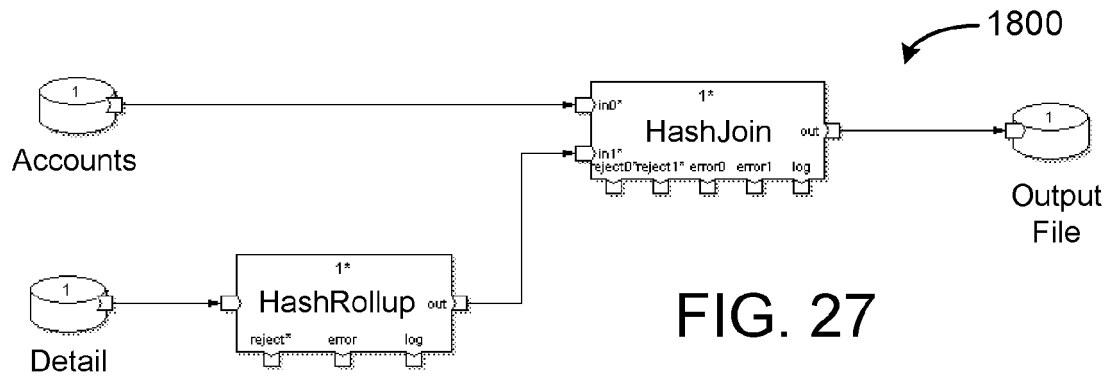


FIG. 27

FIG. 28 is a screenshot of a dialog box titled "Graph 'parameterized-rollup-join' Run Parameters". It contains a table with the following columns: Name, Type, Loc, Default Value, Description, and Kin. The table lists several parameters for the rollup and join operation.

Name	Type	Loc	Default Value	Description	Kin
rollup_transform	Transform	Emb	\${prompt_for "rollup,inplace", \${dataset_type "/Schema/Warehouse/CallDet "acct_no")	Detail rollup rules	CDL
rollup_format	Record Format	Emb	\${find_in \$rollup_transform, "result_type")		CDL
join_transform	Transform	Emb	\${xfr_for_join "join", \${dataset_type "/Schema/Warehouse/Account \$rollup_format)		CDL
join_format	Record Format	Emb	\${type_join \${dataset_type "/Schema/Warehouse/Account \$rollup_format)		CDL
output_path	String		\${prompt_for "text,inplace", 35)	Output path	CDL

At the bottom of the dialog box are buttons for "Help", "Cancel", and "OK".

FIG. 28

FIG. 29 is a configuration interface for "Detail rollup rules". It features a table with columns: Compute, Source field, Expression, Where, and Output. Below the table is an "Output path" field.

Compute	Source field	Expression	Where	Output
<input type="text"/>	value of	<input type="text"/>	<input type="text"/>	<input type="text"/>
<input type="text"/>	value of	<input type="text"/>	<input type="text"/>	<input type="text"/>
<input type="text"/>	value of	<input type="text"/>	<input type="text"/>	<input type="text"/>
<input type="text"/>	value of	<input type="text"/>	<input type="text"/>	<input type="text"/>
<input type="text"/>	value of	<input type="text"/>	<input type="text"/>	<input type="text"/>

Below the table is an "Output path" field with a text input box and a button.

FIG. 29

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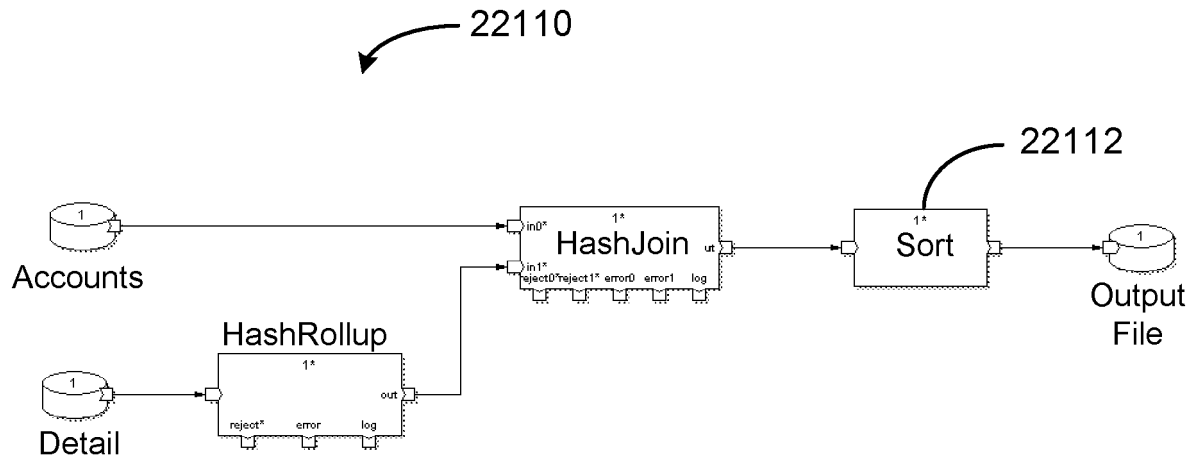


FIG. 30

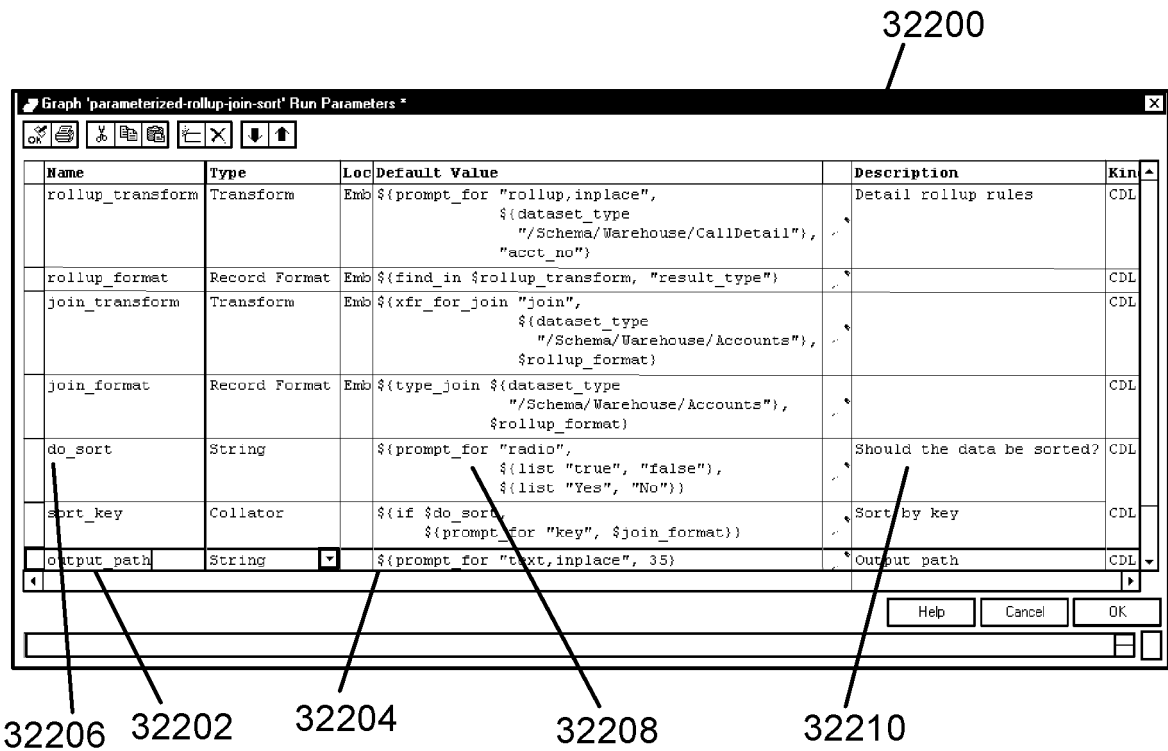


FIG. 31

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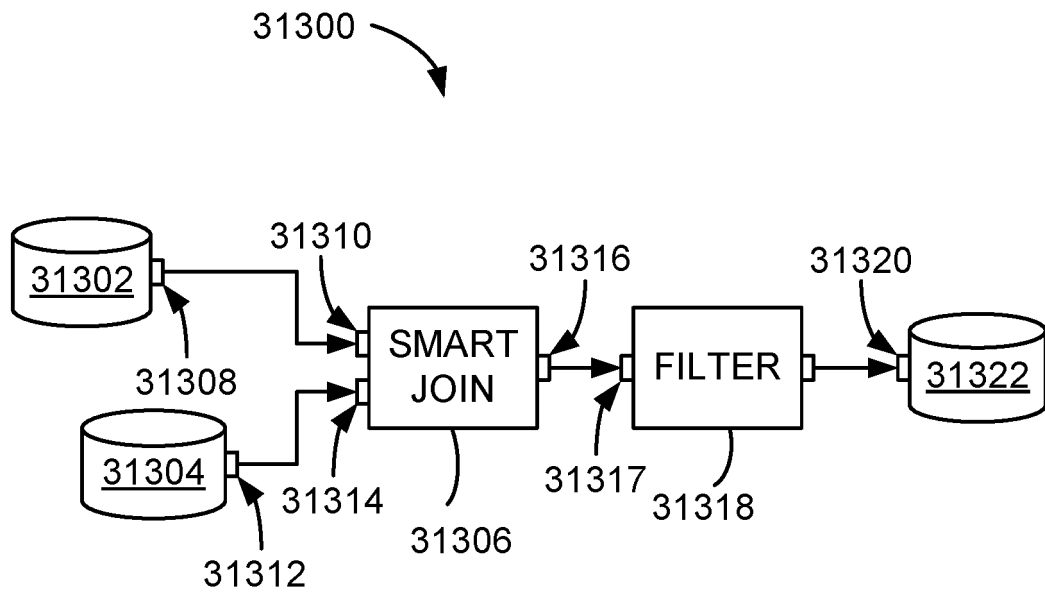


FIG. 32A

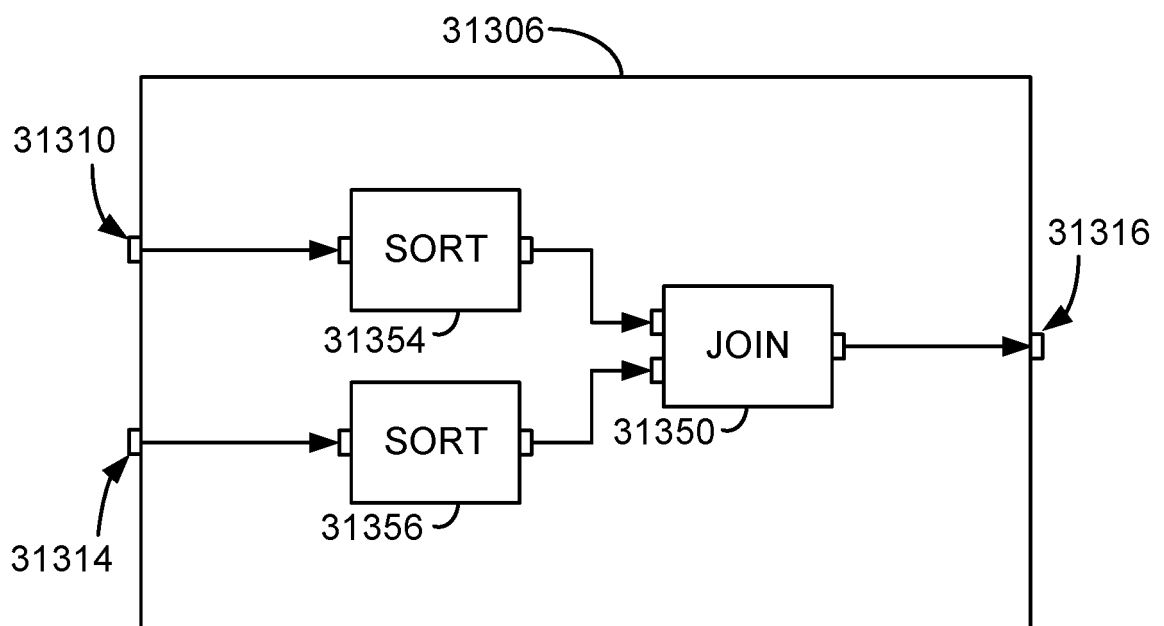


FIG. 32B

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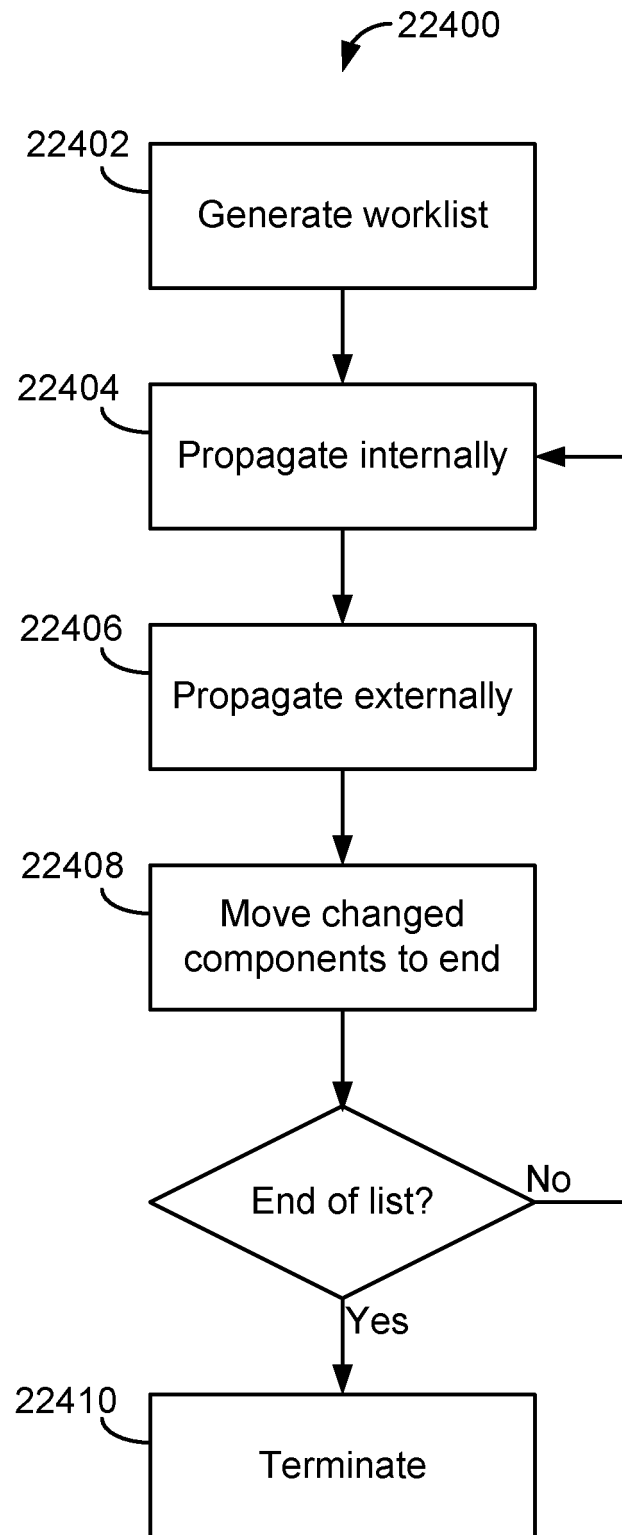


FIG. 33

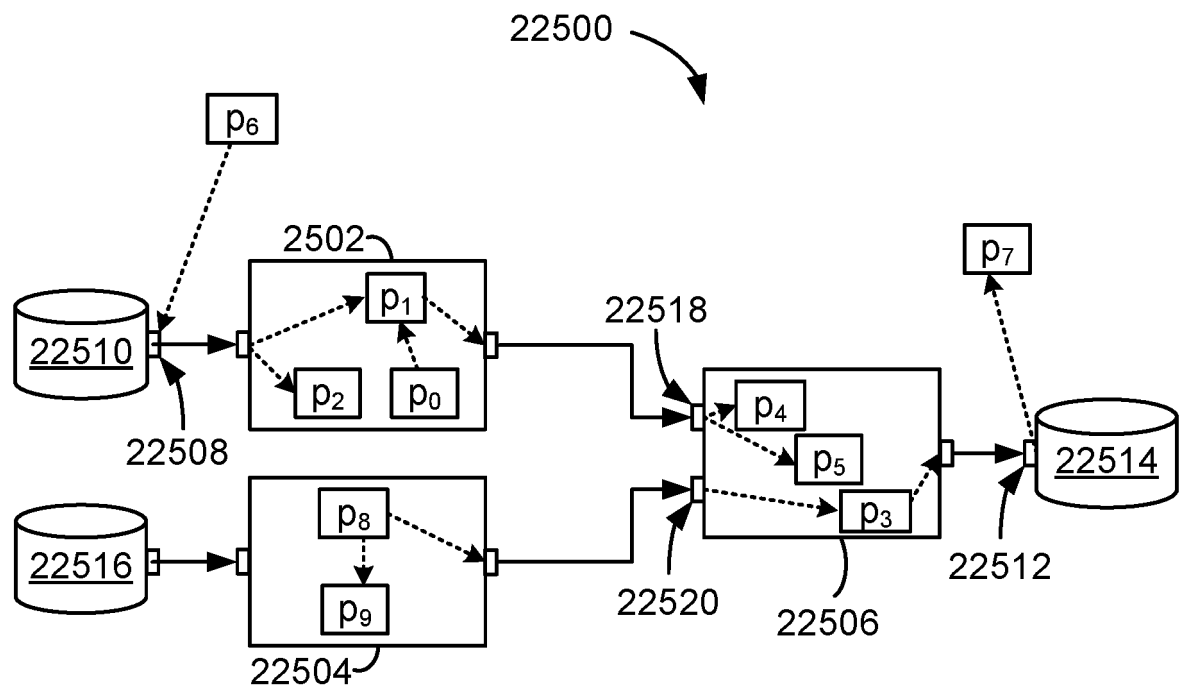


FIG. 34A

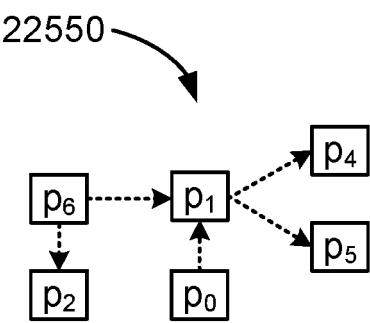


FIG. 34B

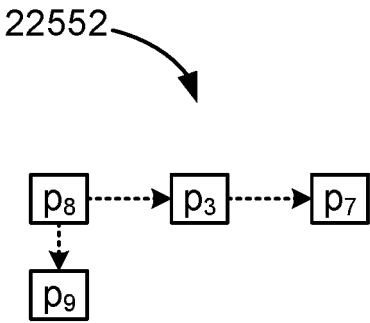


FIG. 34C

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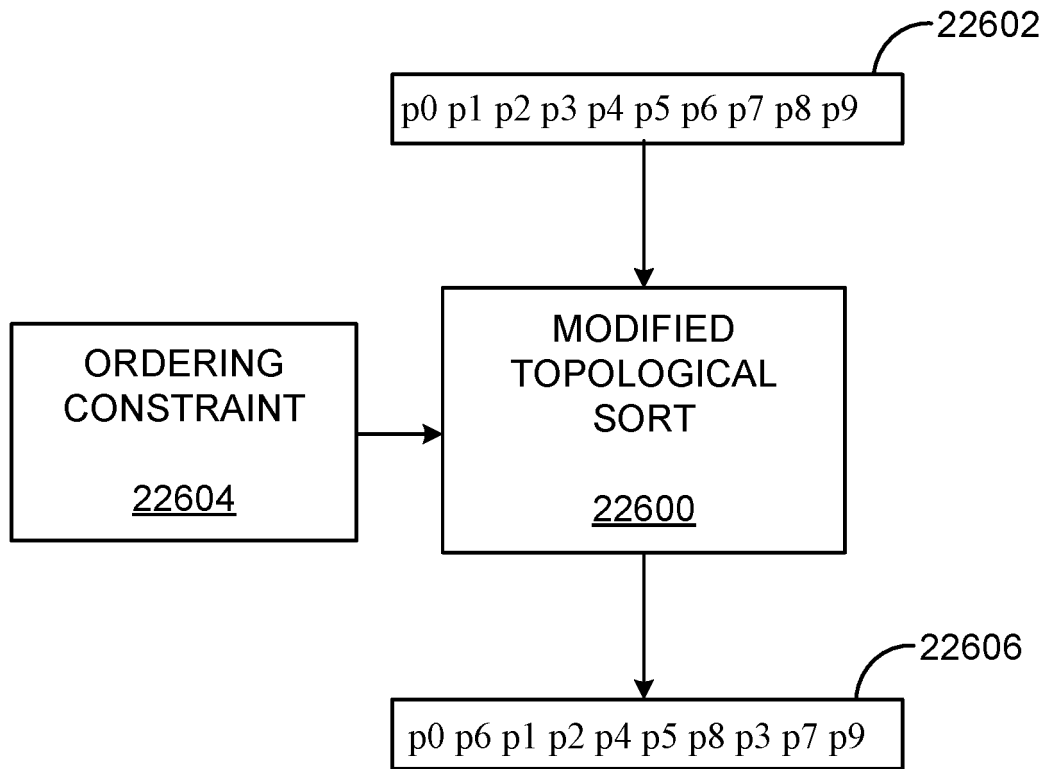


FIG. 35

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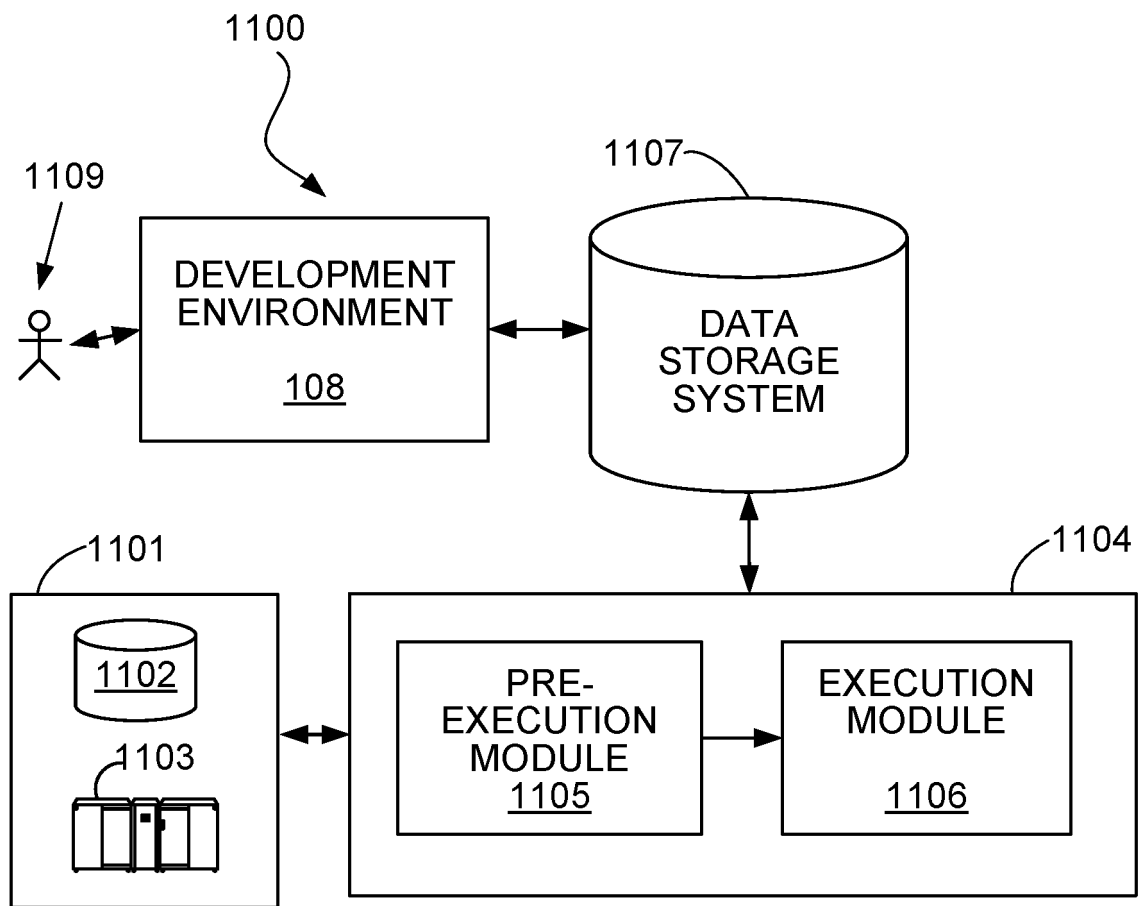


FIG. 36

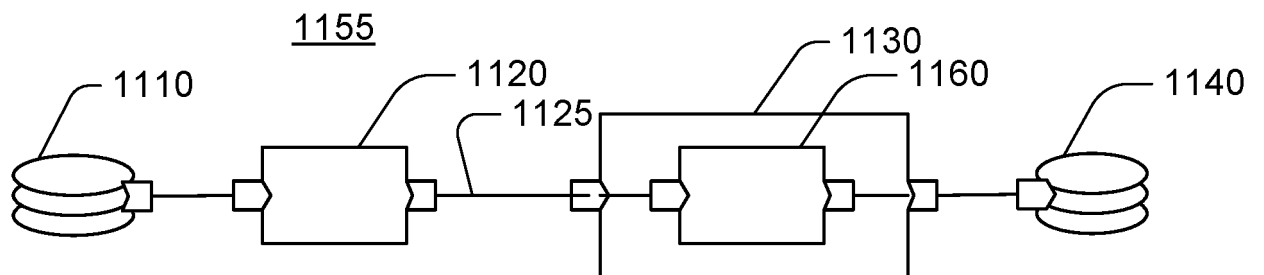
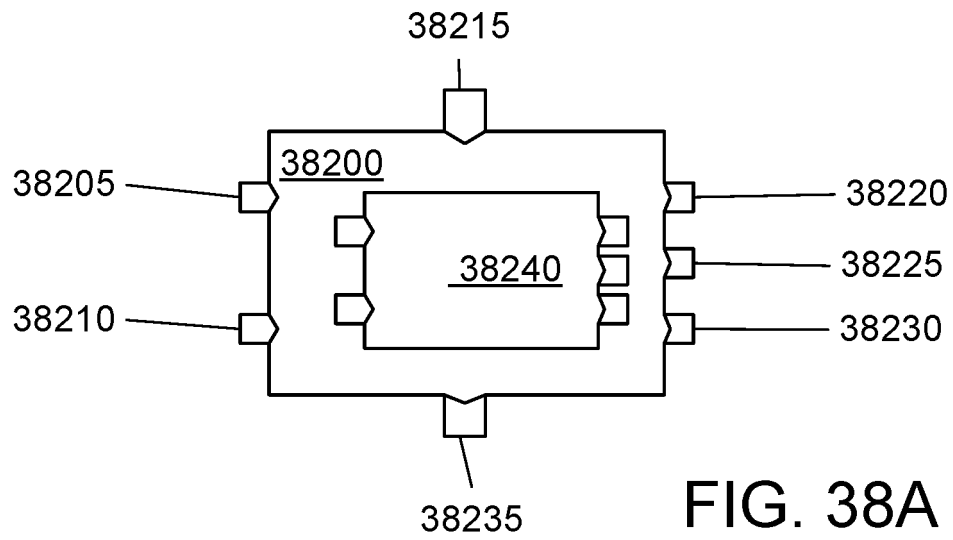
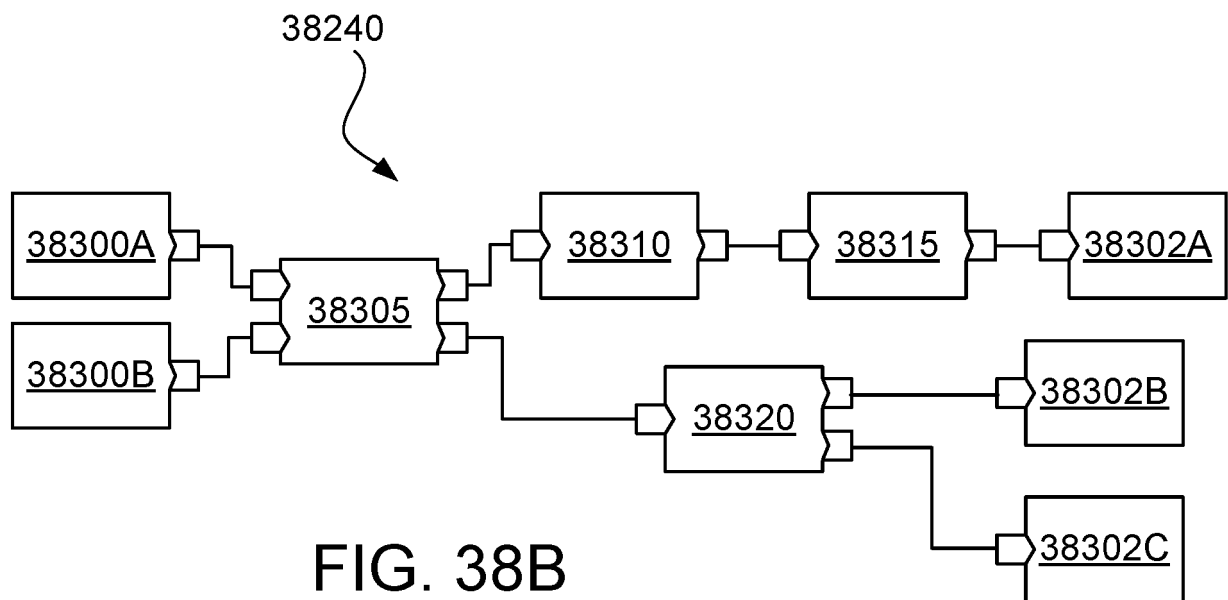


FIG. 37

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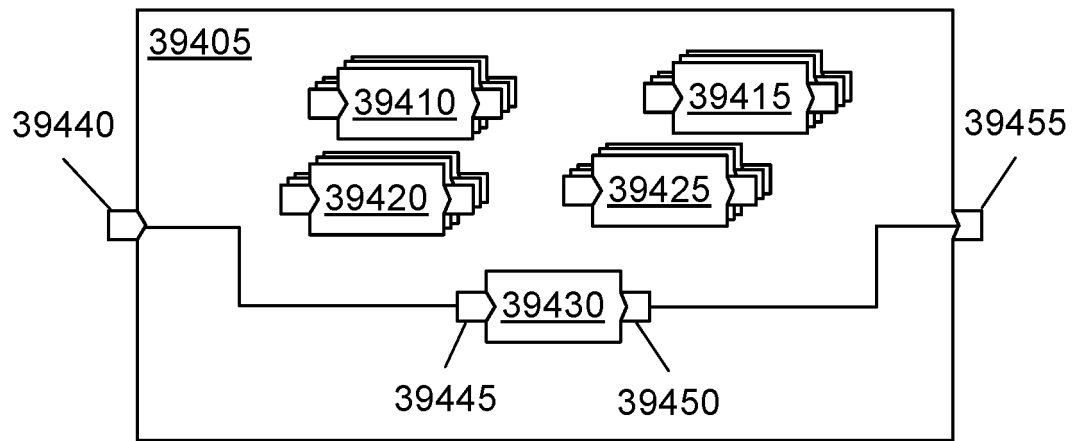


FIG. 39

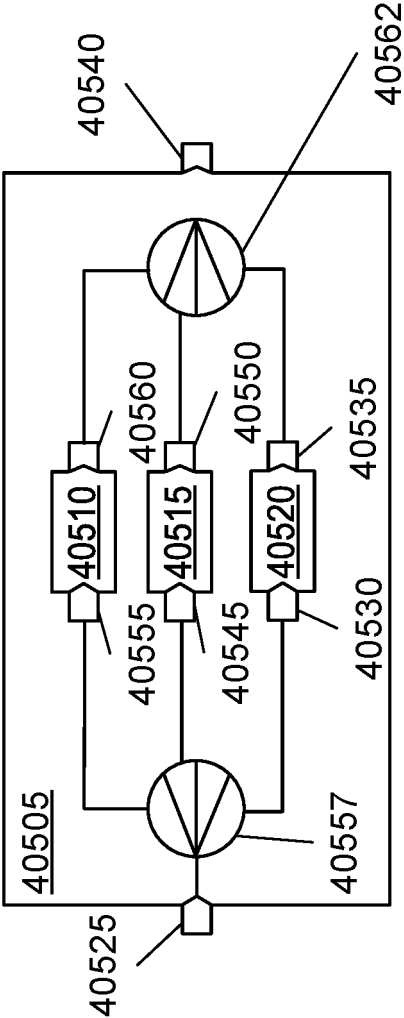


FIG. 40A

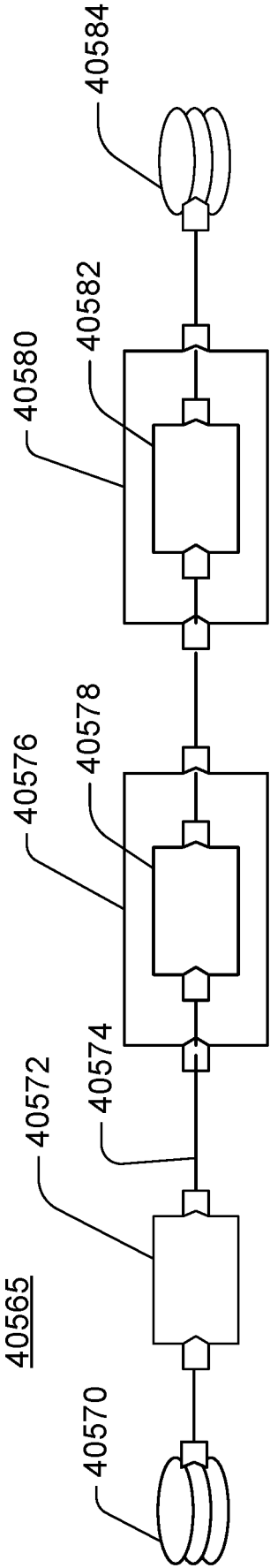


FIG. 40B

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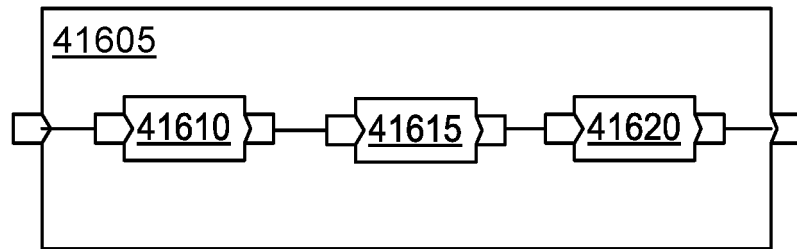


FIG. 41

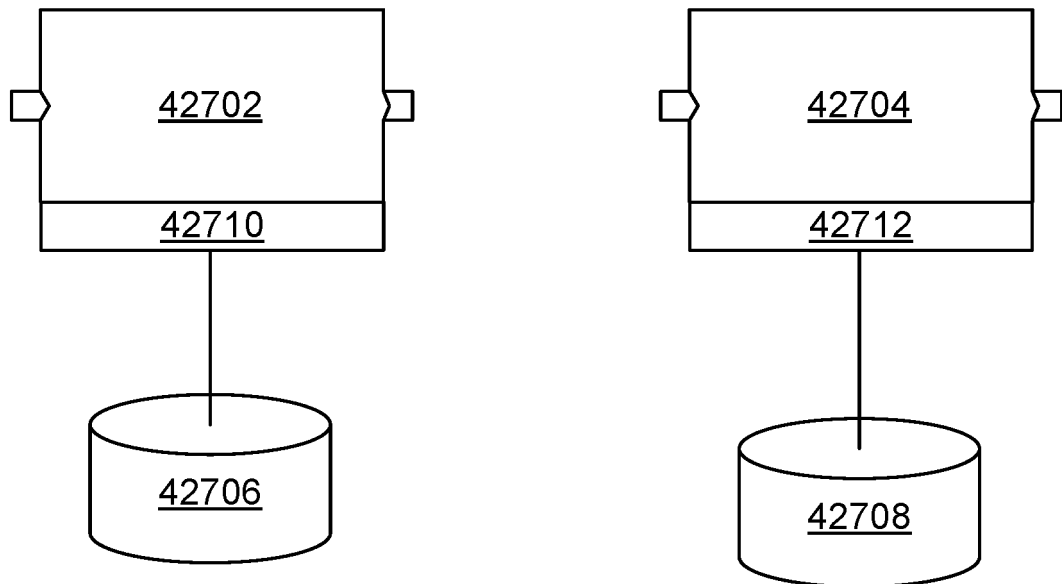


FIG. 42

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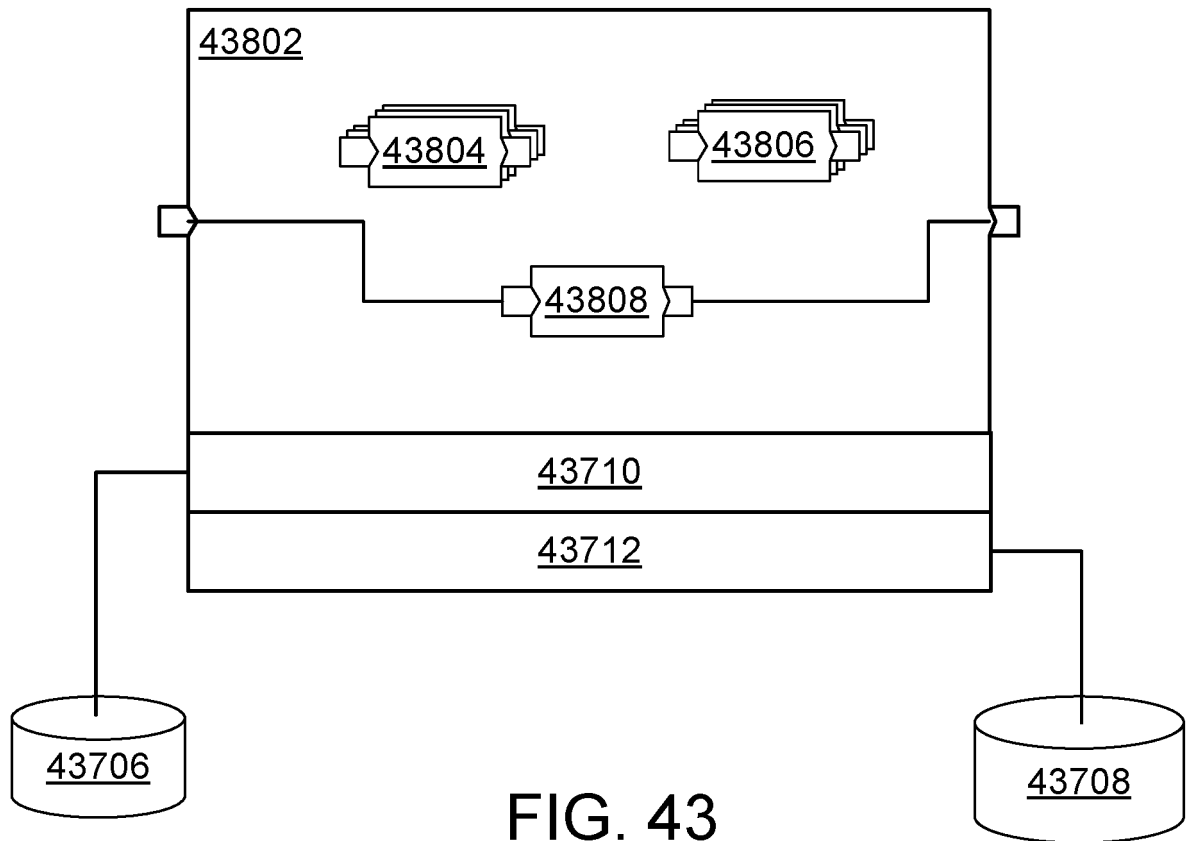


FIG. 43

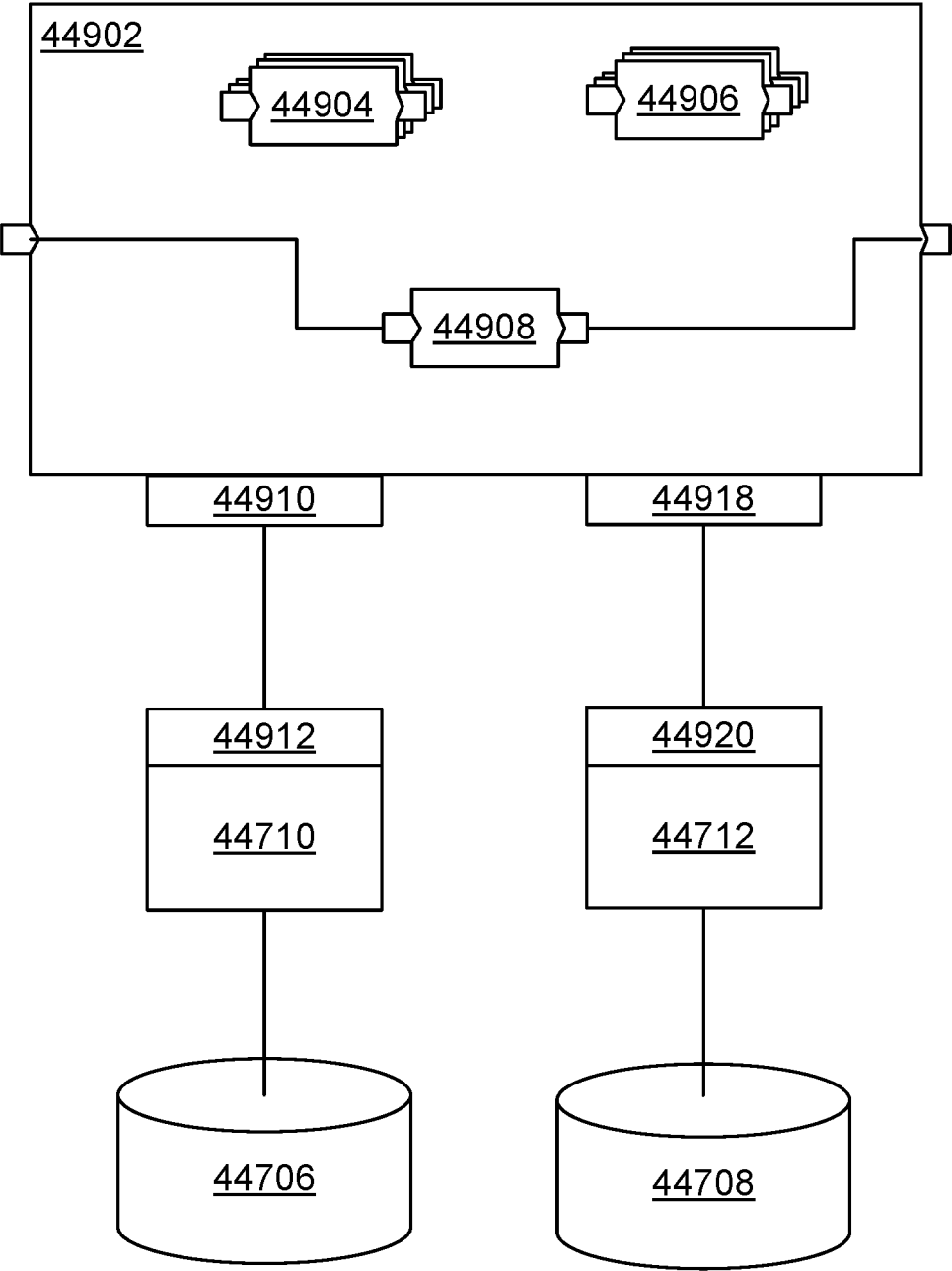


FIG. 44A

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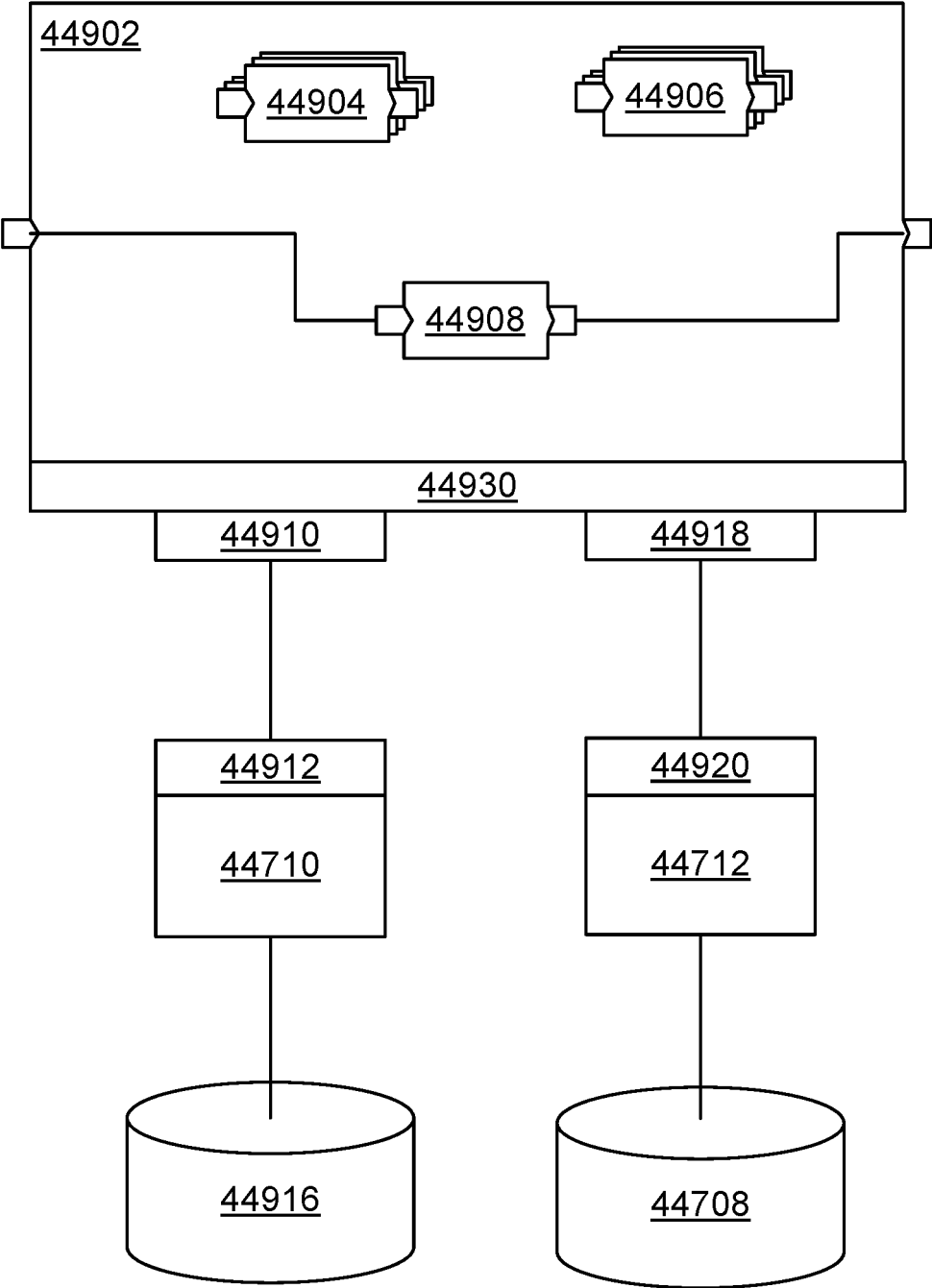


FIG. 44B

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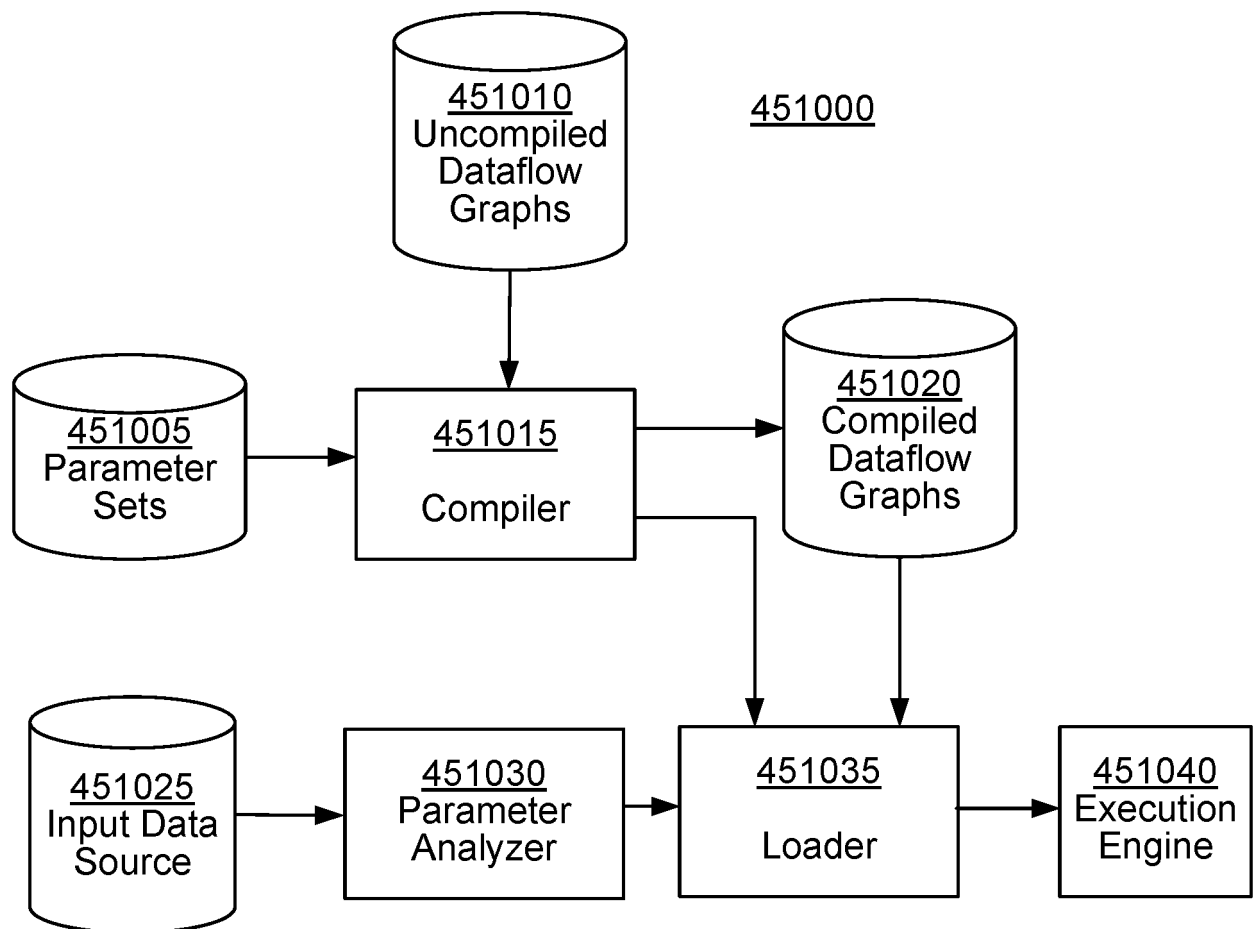


FIG. 45