

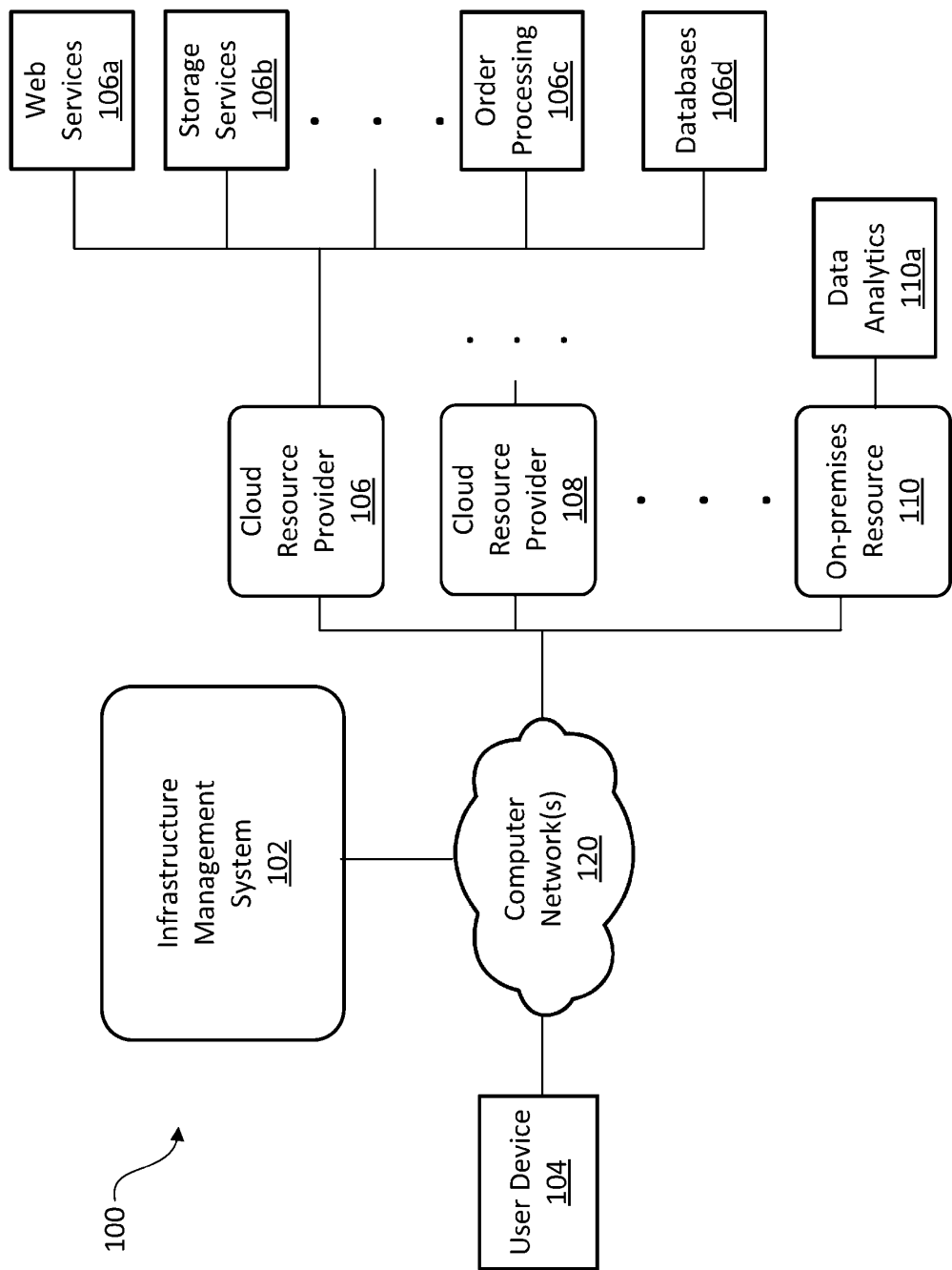


FIG. 1

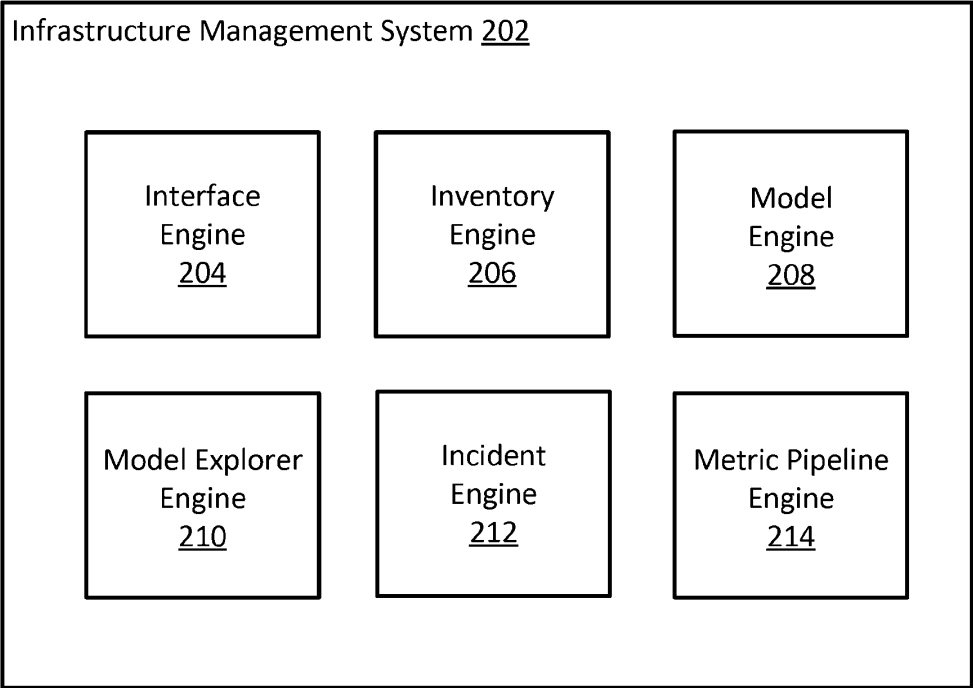


FIG. 2

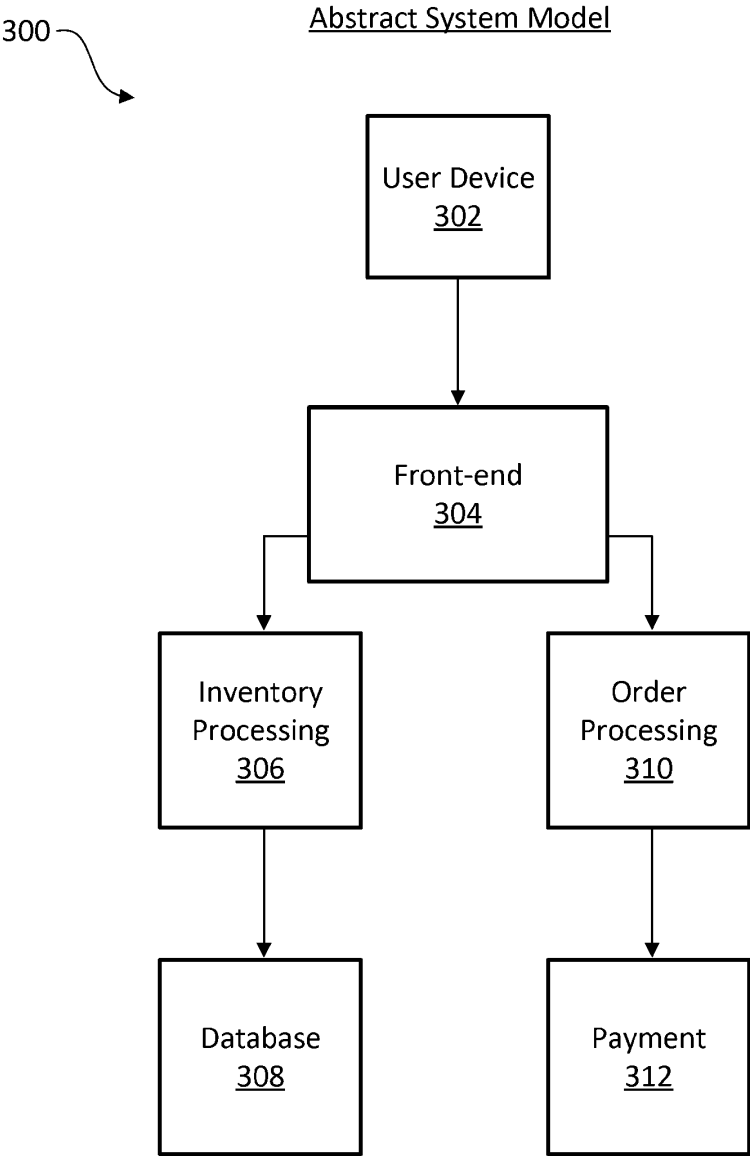


FIG. 3

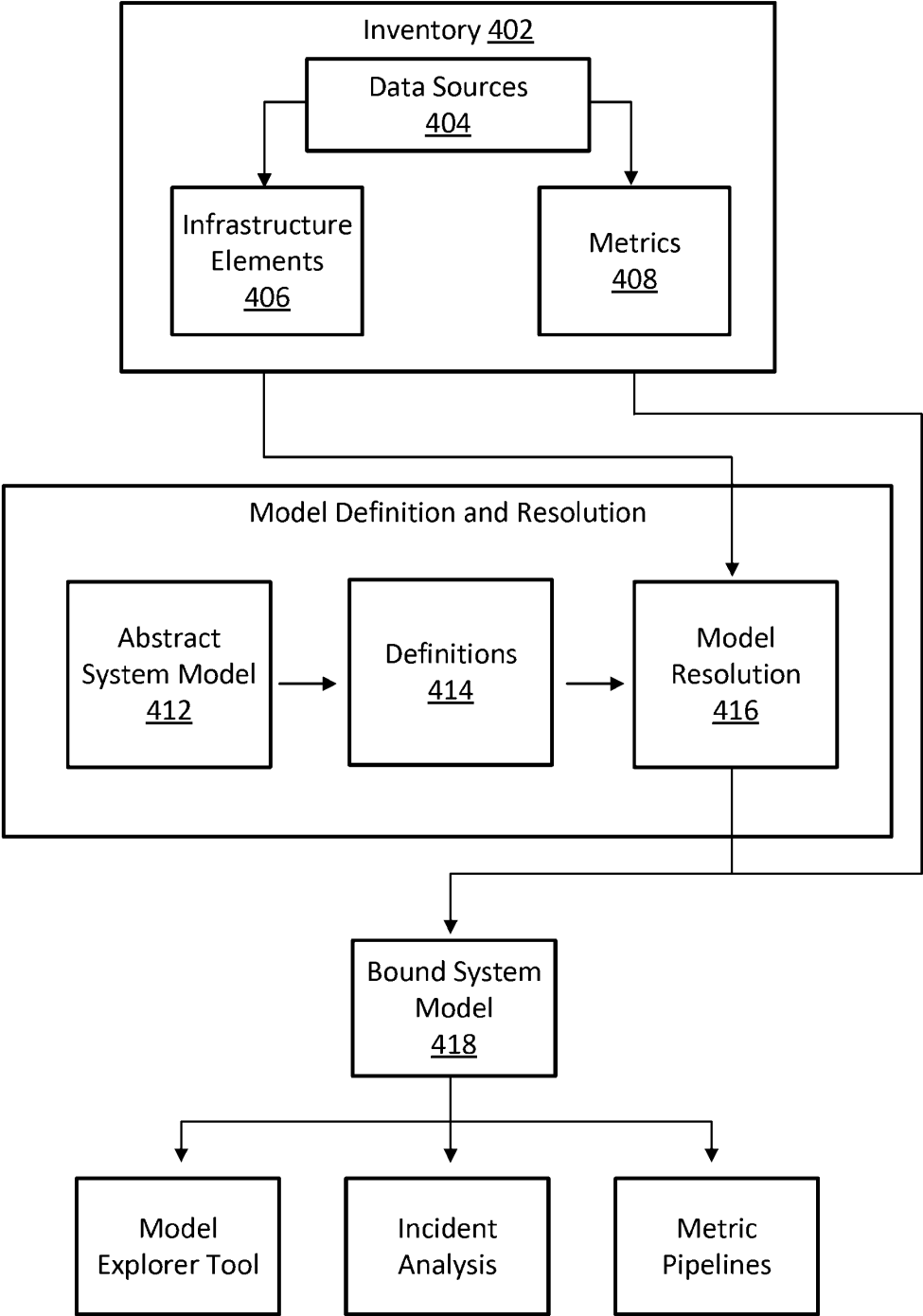


FIG. 4

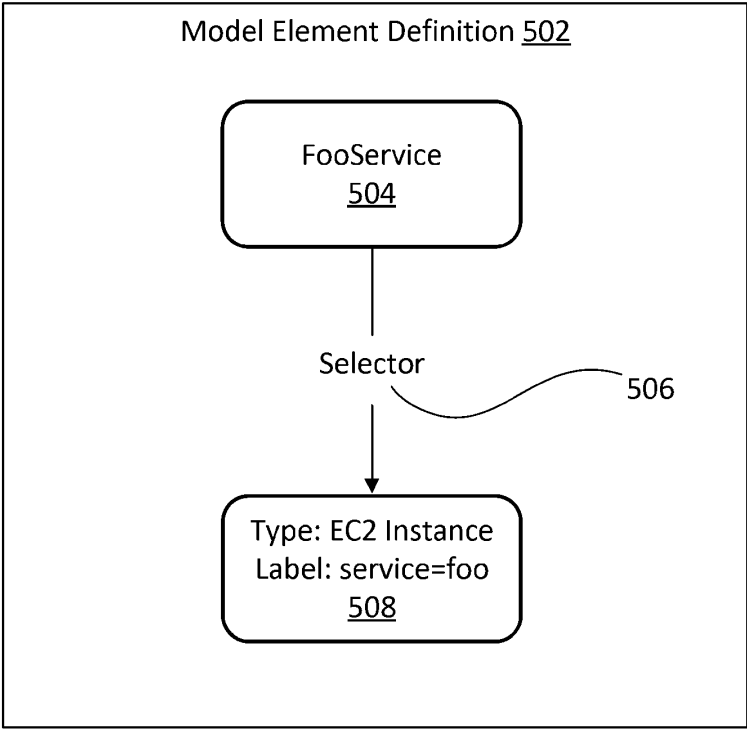


FIG. 5A



FIG. 5B

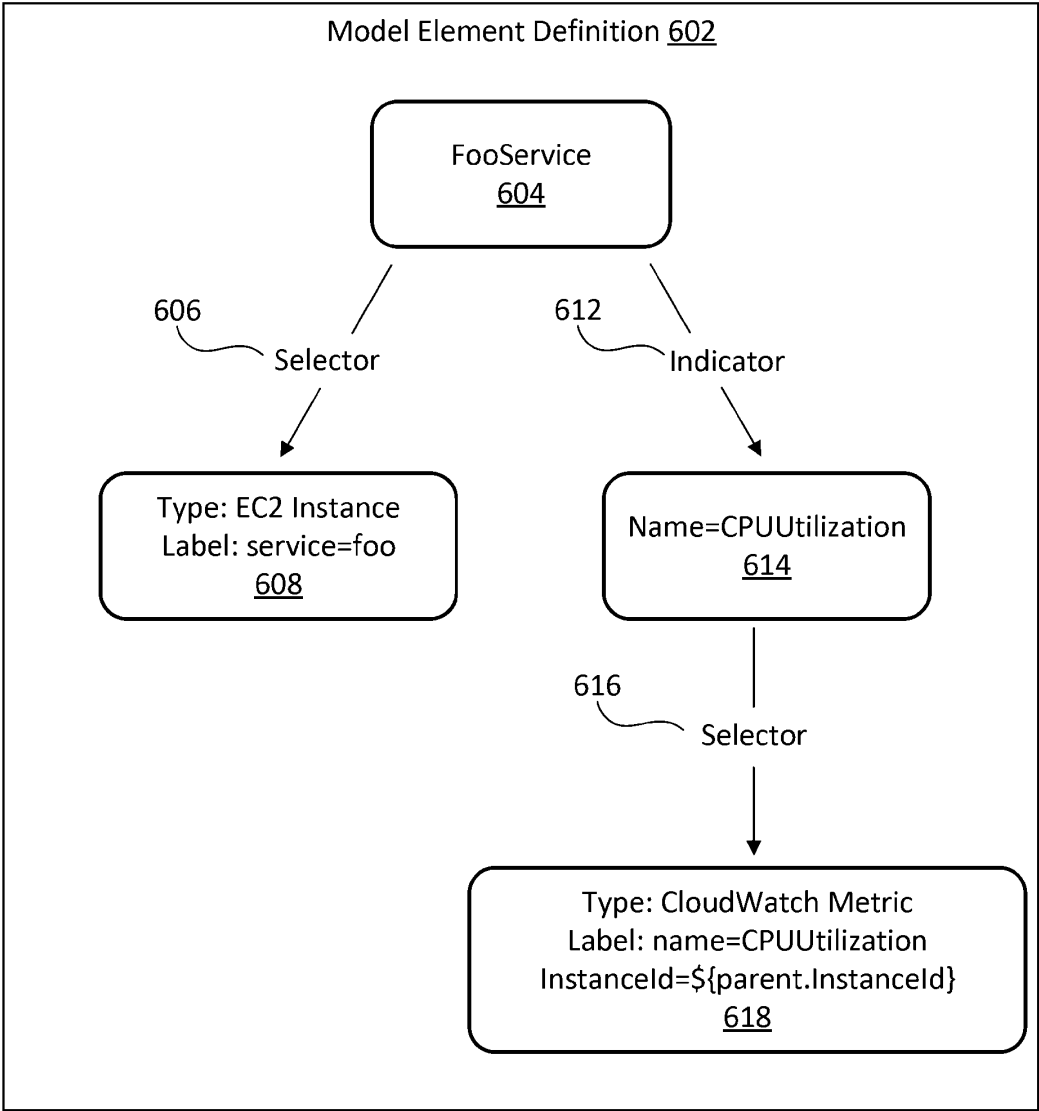


FIG. 6A

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630

```
{
  "elements": {
    "1bad88d4-472b-45bd-930e-79b7204954ad": {
      "id": "1bad88d4-472b-45bd-930e-79b7204954ad",
      "name": "FooService"
      "selectors": [{
        "types": ["AWSEC2Instance"],
        "matches": [{
          "key": "service",
          "operator": "In",
          "values": ["foo"]
        }]
      }]
  }

  "indicators": {
    "e7de9407-780e-4864-9424-f890535c8f27": {
      "name": "CPUUtilization",
      "metrics": [{
        "id": "f9f0c974-f793-4e8c-8ffc-f82ef36a0c48",
        "selectors": [
          "types": ["AWSCloudwatchMetric"],
          "matches": [{
            "key": "Name",
            "operator": "In",
            "values": ["CPUUtilization"]
          }],
          {
            "key": "InstanceId",
            "operator": "In",
            "values": ["S{parent.InstanceId}"]
          }
        ]
      }
    ]
  }
}
```

FIG. 6B

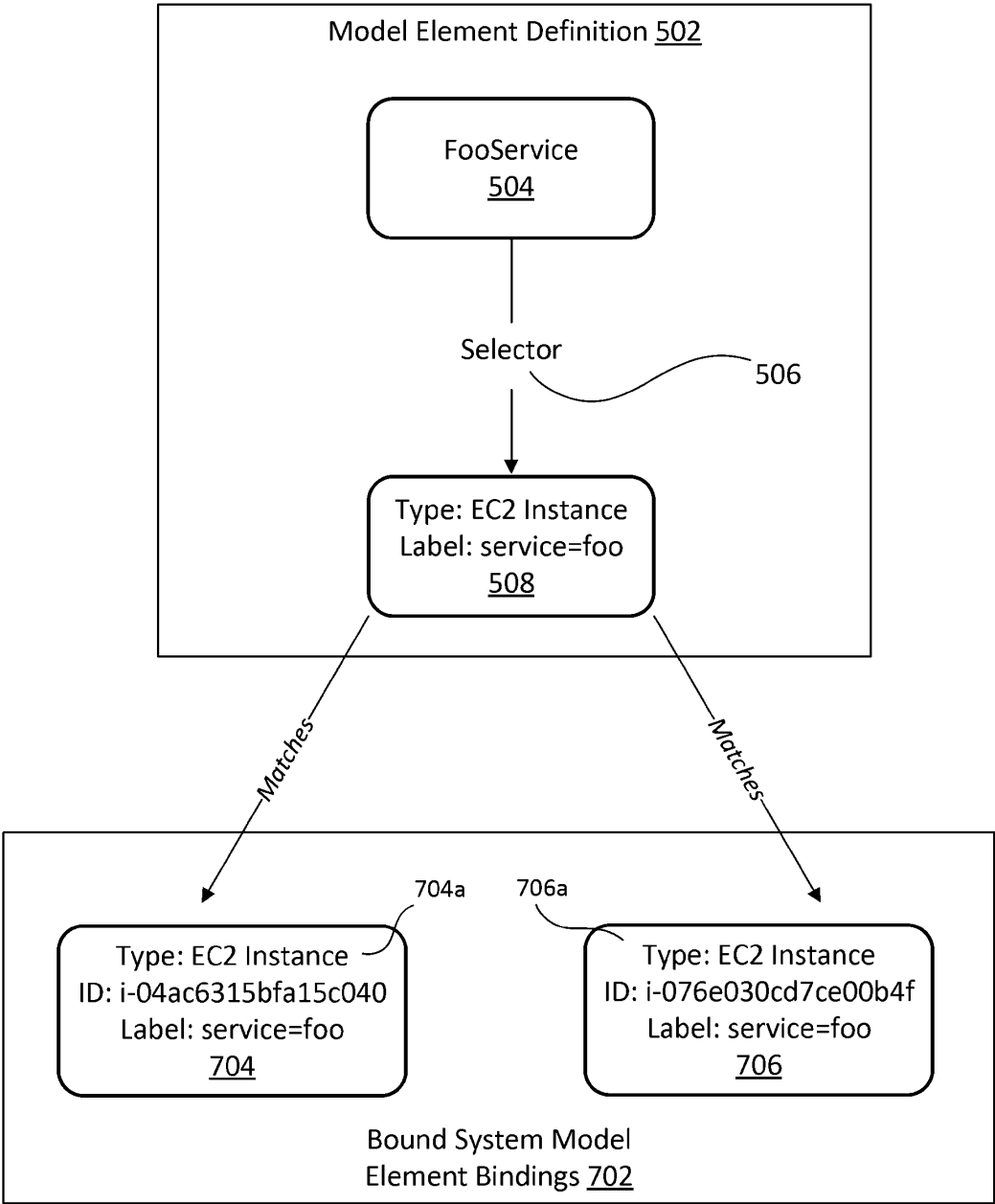


FIG. 7

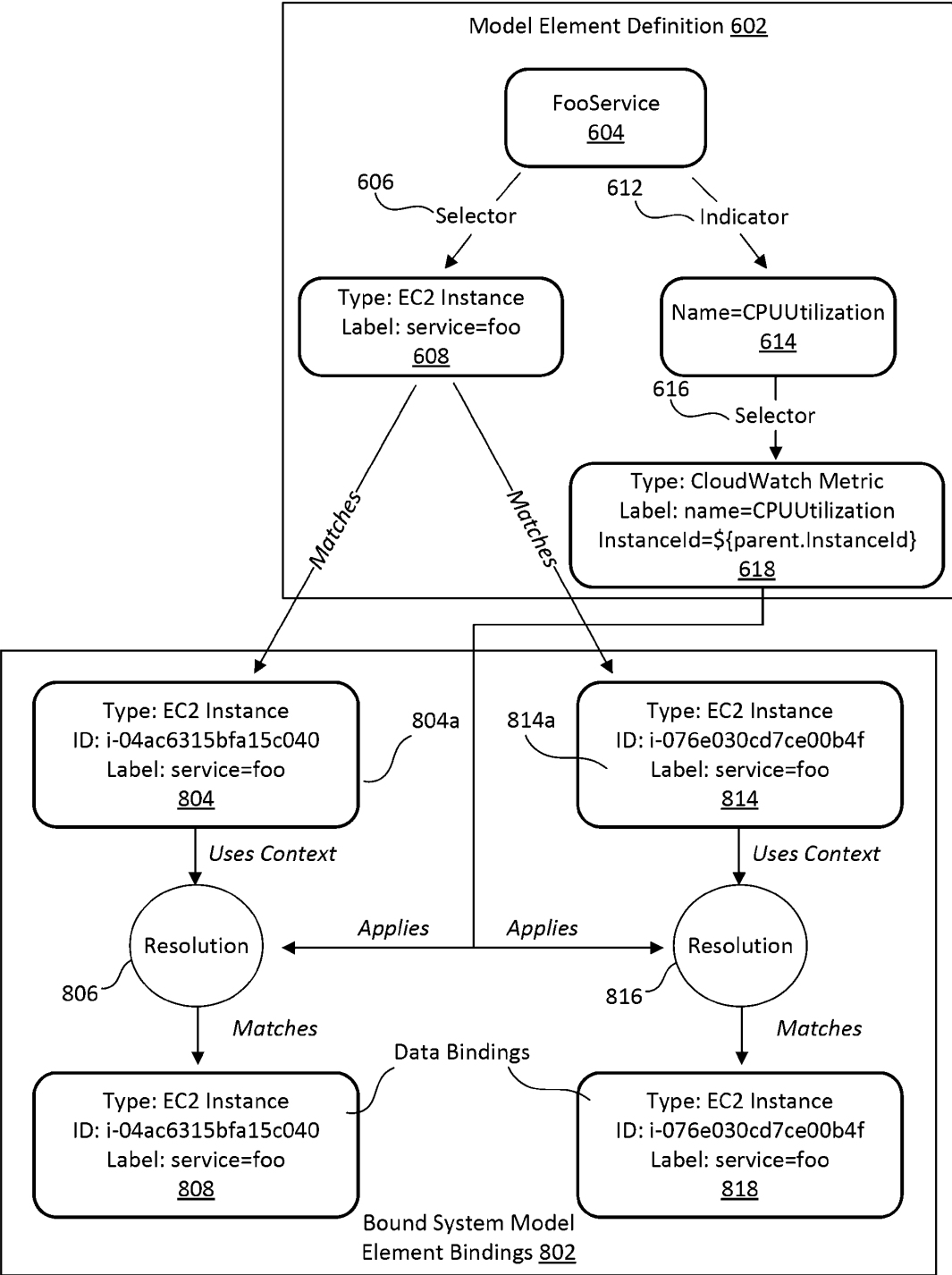


FIG. 8

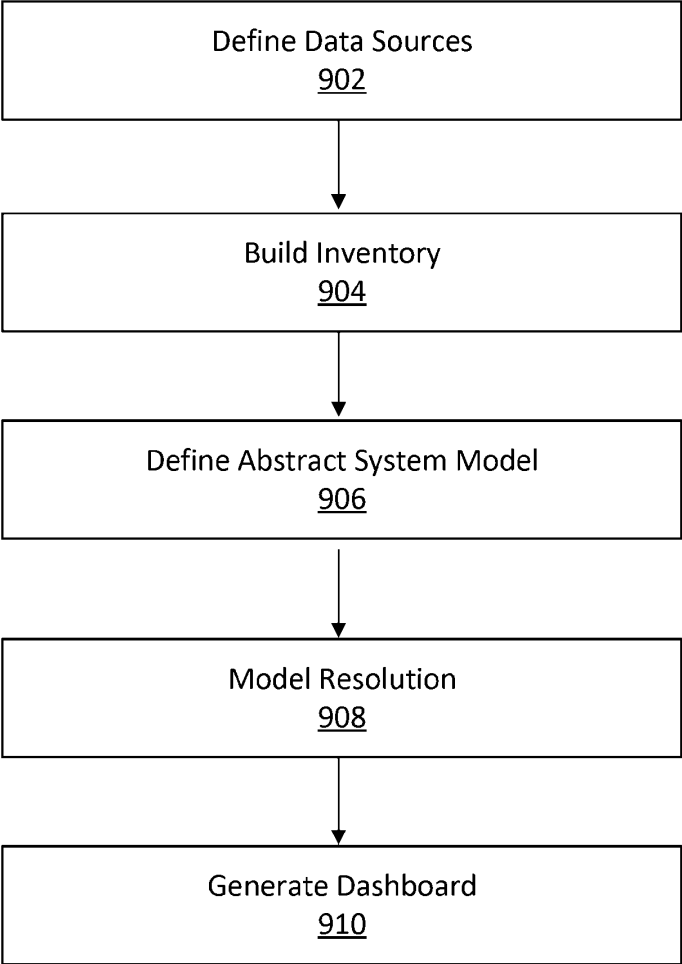


FIG. 9

1002

Add Data Source

General Info

Name*

test

Description

Source Type

Type*

AWS

Source Config

API *

☒ EC2

☒ CloudWatch

☒ Elastic Kubernetes Service

☒ Elastic Load Balancer

Region*

Access Key ID*

Secret Access Key*

Inventory Sync Enabled

Disabling sync period will prevent fetching any new inventory

Inventory Sync Period

600

How often new inventory data is fetched (in seconds)

Metric Pull Period

600

FIG. 10A

1004

'Neil1' AWS Source

Neil1

SUMMARY

TASKS

INVENTORY

DATA SOURCES / 'NEIL1' AWS SOURCE / SUMMARY

Configuration

Type	AWS
APIs	CloudWatch, EC2, Elastic Load Balancer
Region	us-west-2
Access Key ID	*****
Secret Access Key	*****
Sync Period ⚙️	60
Metric Pull Period ⚙️	60

Status

🔄 AWS CloudWatch Sync ⚙️

less than a minute ago

🔗 Task Successful

🔄 AWS ELB Sync ⚙️

less than a minute ago

🔗 Task Successful

🔄 AWS Metrics Pull ⚙️

1 minute ago

🔗 Task Successful

🔄 AWS EC2 Sync ⚙️

1 minute ago

🔗 Task Successful

Feedback

FIG. 10B

1006

'Neil1' AWS Source
Neil1

SUMMARYTASKSINVENTORY

DATA SUMMARY / 'NEIL1' AWS Inventory

Search

Name

...

...

...

...

...

...

...

...

...

...

...

...

...

Inventory Details

DNSName:...
Ipaddress:...
KubernetesName:...
KubernetesNameSpace:...
LoadBalancerArm:...
LoadBalancerMetricLabel:...
LoadBalancerName:...
Scheme:...
Tag:...
Tag:...
Tag:...
Type: ...

FIG. 10C

1008

Search		INFRA		METRICS	
Name		Type	Time		
	AWS/ApplicationELB/HealthyHostCount	AWS Cloudwatch Metric	16 minutes ago		
	AWS/ApplicationELB/RequestCountPerTarget	AWS Cloudwatch Metric	16 minutes ago		
	AWS/ApplicationELB/RequestCountPerTarget	AWS Cloudwatch Metric	16 minutes ago		
	AWS/ApplicationELB/AnomalousHostCount	AWS Cloudwatch Metric	16 minutes ago		
	AWS/ApplicationELB/HealthyStateRouting	AWS Cloudwatch Metric	16 minutes ago		
	AWS/ApplicationELB/RequestCountPerTarget	AWS Cloudwatch Metric	16 minutes ago		
	AWS/ApplicationELB/HTTPCode_Target_2XX_Count	AWS Cloudwatch Metric	16 minutes ago		
	AWS/ApplicationELB/HealthyStateDNS	AWS Cloudwatch Metric	16 minutes ago		
	AWS/ApplicationELB/TargetResponseTime	AWS Cloudwatch Metric	16 minutes ago		
	AWS/ApplicationELB/UnhealthyStateDNS	AWS Cloudwatch Metric	16 minutes ago		
	AWS/ApplicationELB/RequestCount	AWS Cloudwatch Metric	16 minutes ago		
				Rows per page: 100 1-100 of 3033	

FIG. 10D

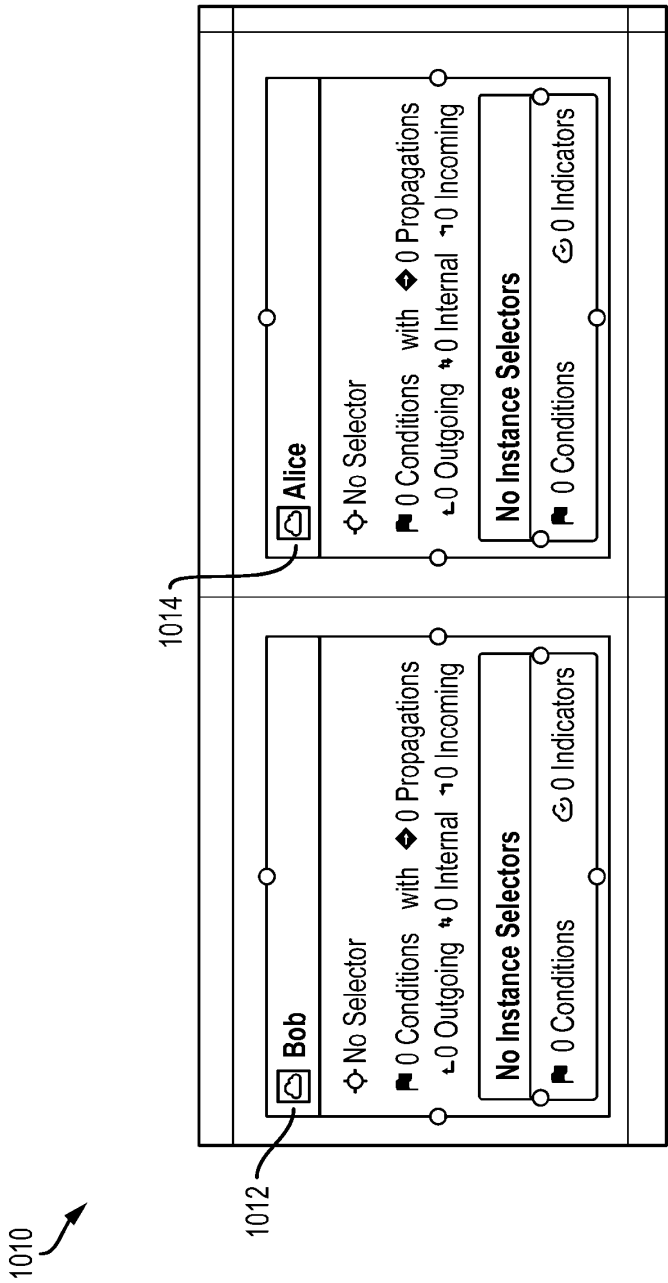


FIG. 10E

1020

1022

^

SELECTORS

SELECTED INSTANCES

CONDITIONS

RELATIONSHIPS

SELF PROPAGATION

INDICATORS

INDICATOR METRICS

^ Stuff > Bob

Name* Bob

Description

FIG. 10F

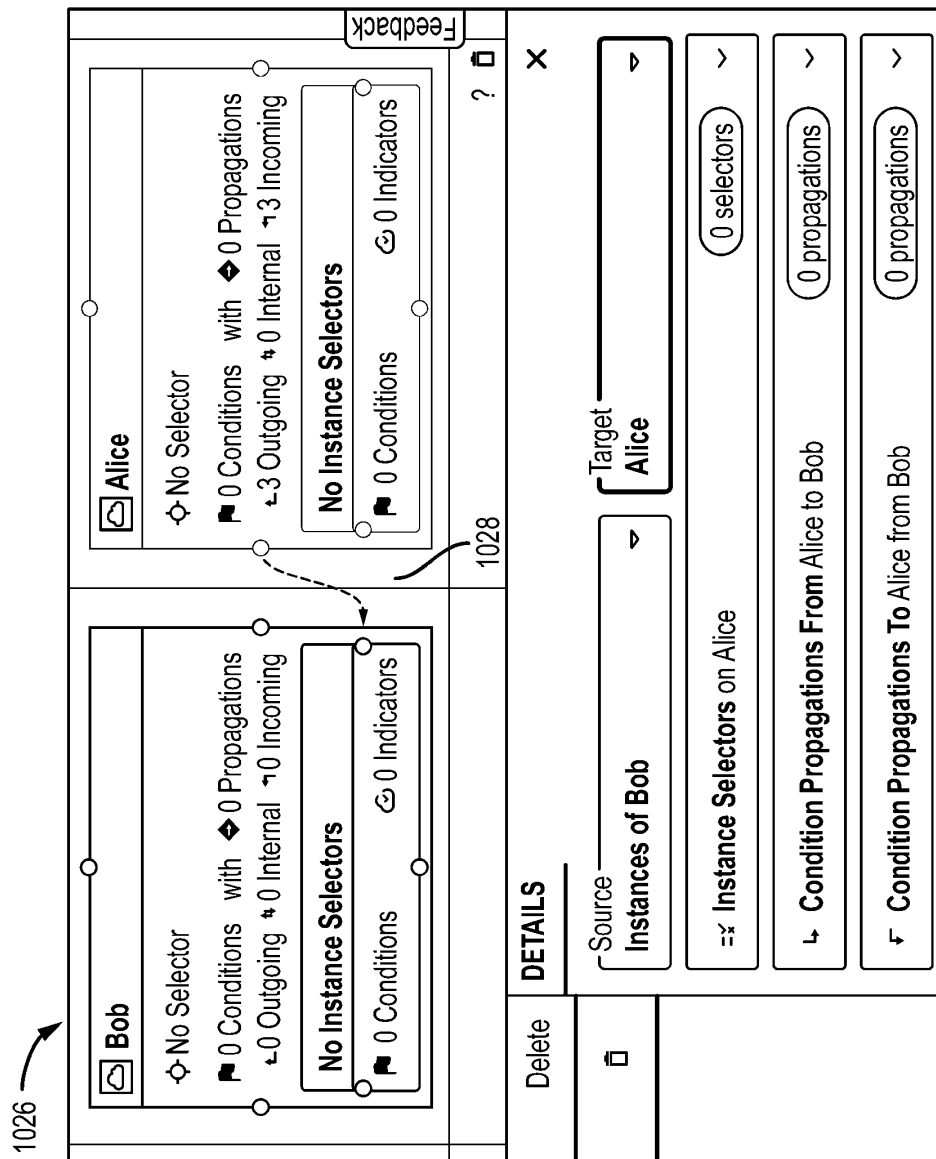


FIG. 10G

1030

v 'Neil1' - Advanced Model Deployment > Database ?							
OVERALL METRICS INSTANCES DETAILS SELECTORS CONDITIONS	Name						
	(Instance)	Database Instance Degraded	(↔)	(↑1)	(↑1)	(Normal)	✎
	(Instance)	Databased Instance Quota Exceeded	(↺)	(↺1)	(↑1)	Significant	✎
	(Overall)	Database Service Degraded	(↔)	(↑1)	(↕1)	(Normal)	✎
CONDITIONS							

FIG. 10H

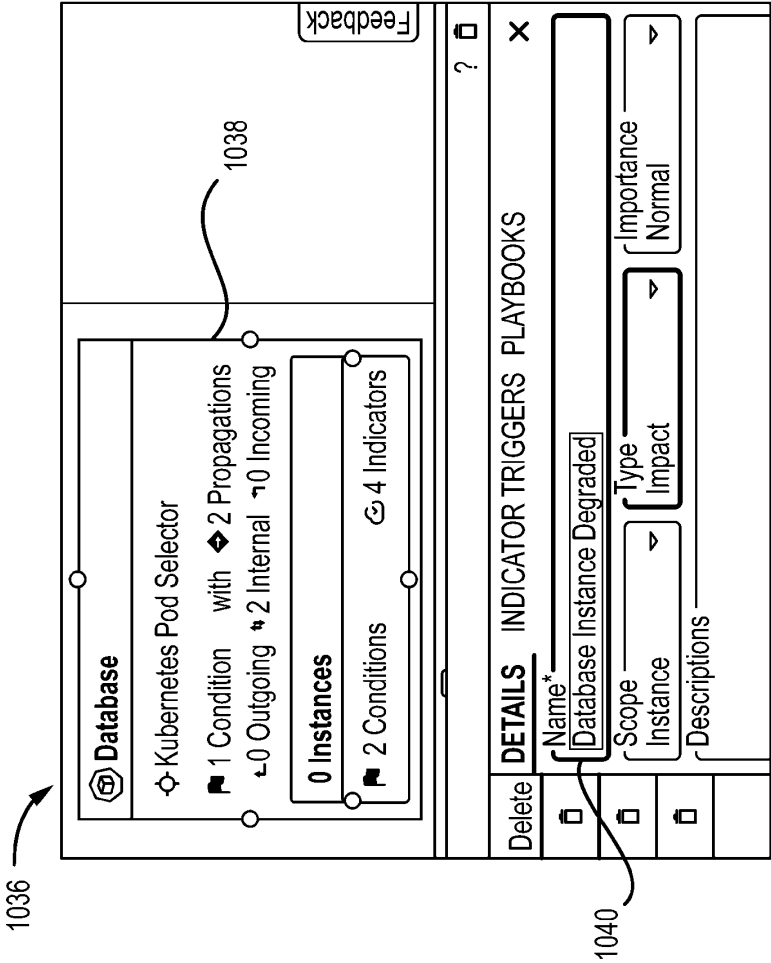
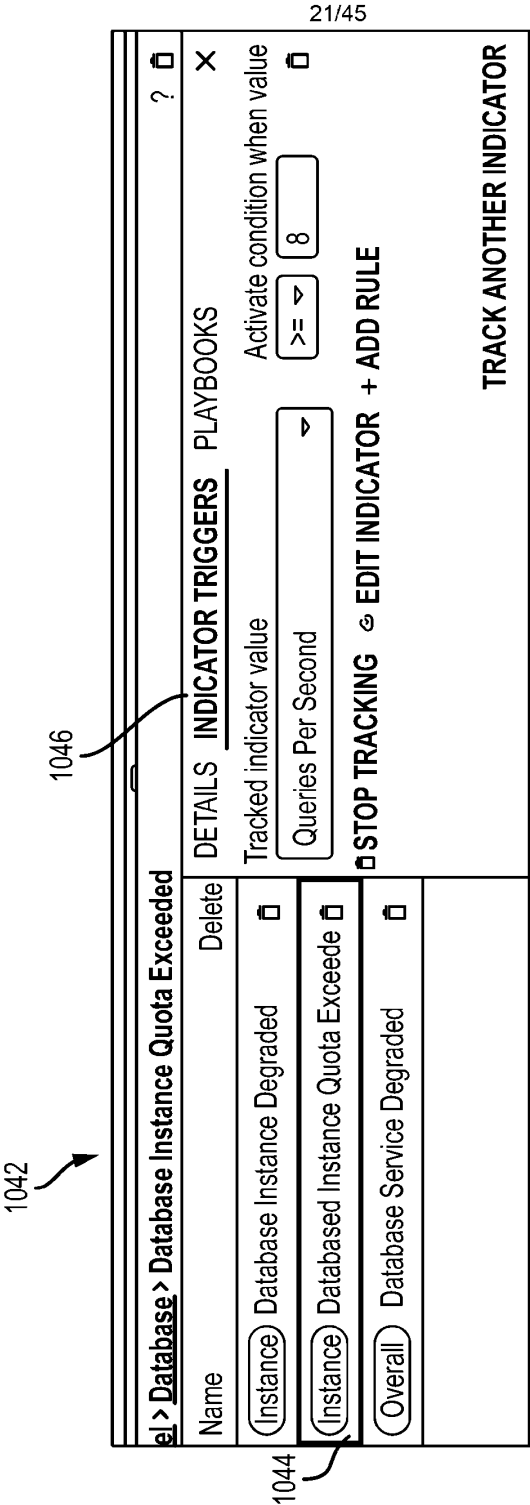


FIG. 10I



1052

v 'Neil1' - Advanced Model > Database ?		
SELECTORS SELECTED INSTANCES CONDITIONS RELATIONSHIPS SELF PROPAGATION INDICATORS	Source	
	Delete	
	Destination	
	Instance - Database Instance Quota Exceeded ▾	Instance - Database Instance Degraded ▾
	Instance - Database Instance Quota Exceeded Overall - Database Service Degraded Instance - Database Instance Degraded	Overall - Database Service Degraded ▾
ADD PROPAGATION		

1054

FIG. 10K

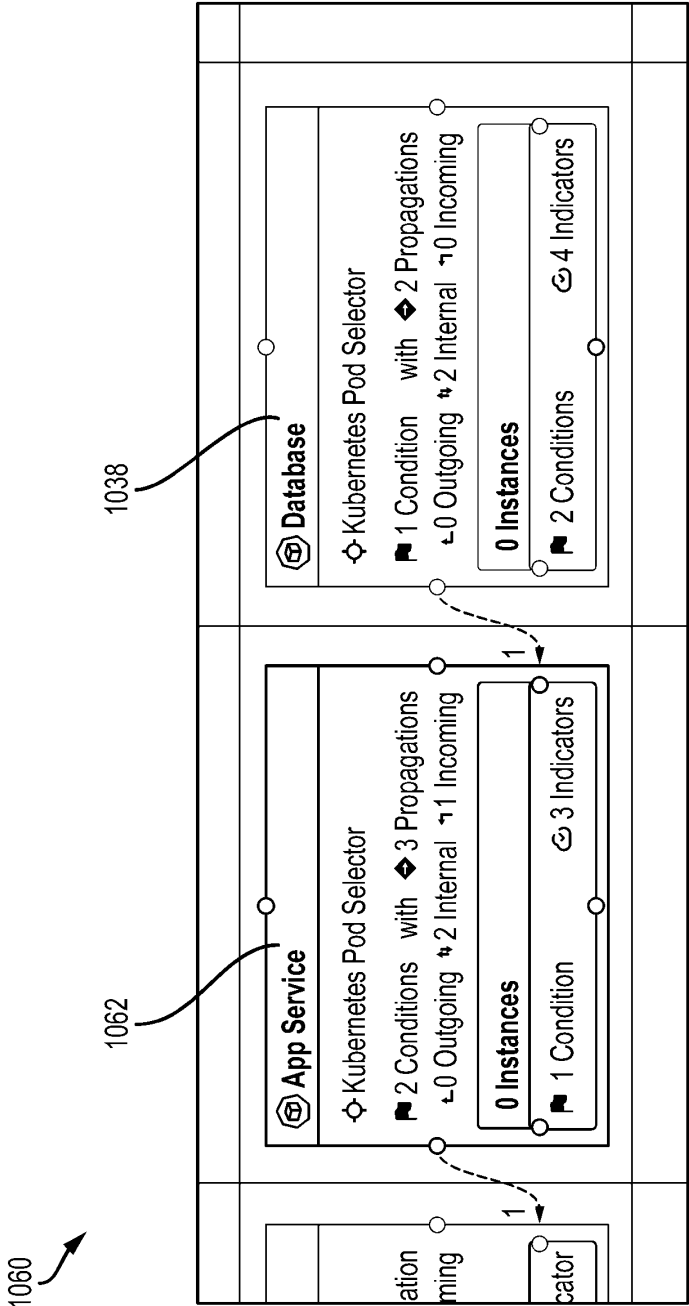


FIG. 10L

1068

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^

SELECTORS

SELECTED INSTANCES

CONDITIONS

RELATIONSHIPS

SELF PROPAGATION INDICATORS

ElementDelete

Database

DETAILS

Condition Propagations From Database to App Service

SourceDestinationDelete

Overall - Database Service De...

→

Instance - Latency High

ADD PROPAGATION

?

×

<

FIG. 10M

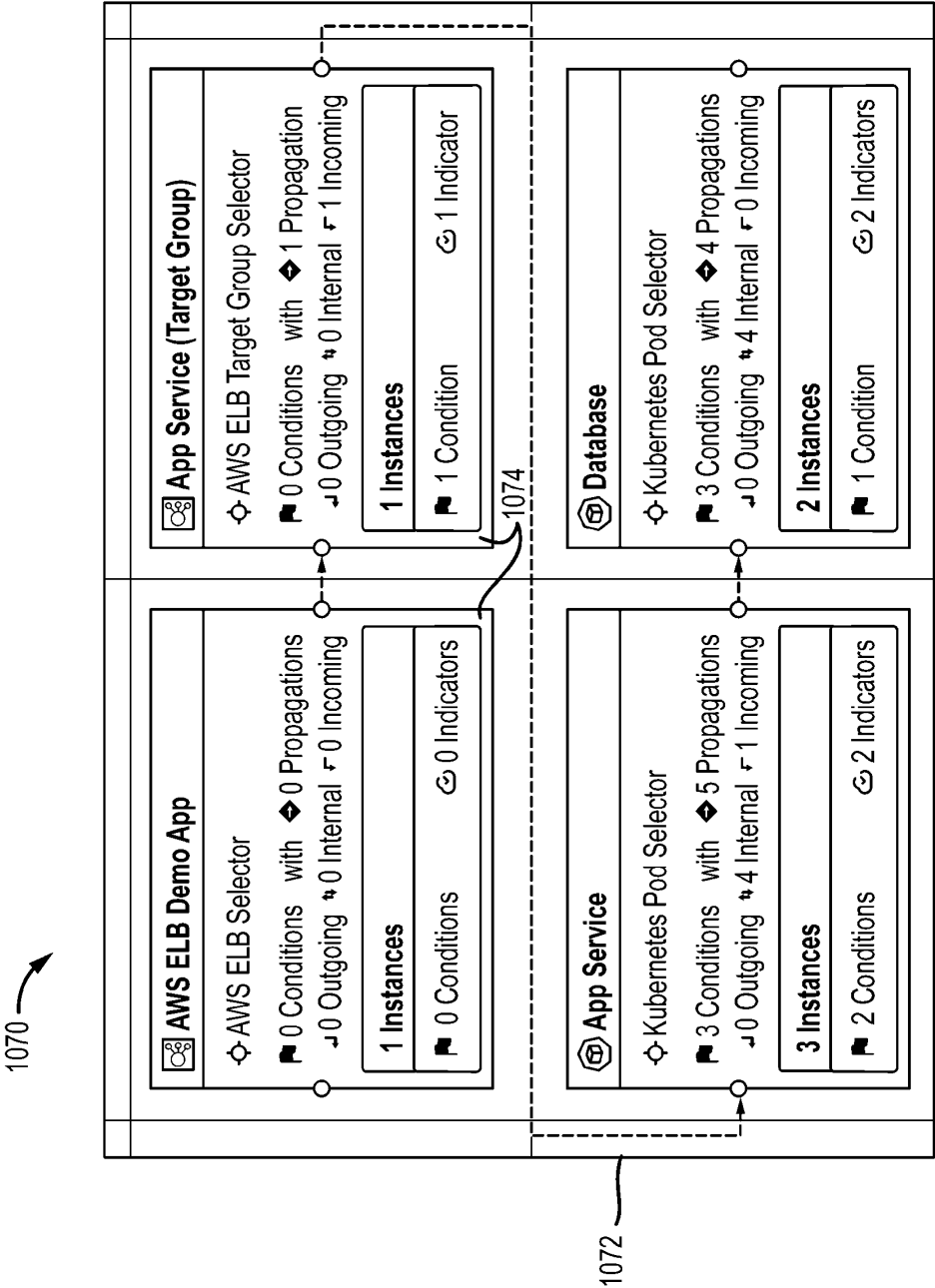


FIG. 10N

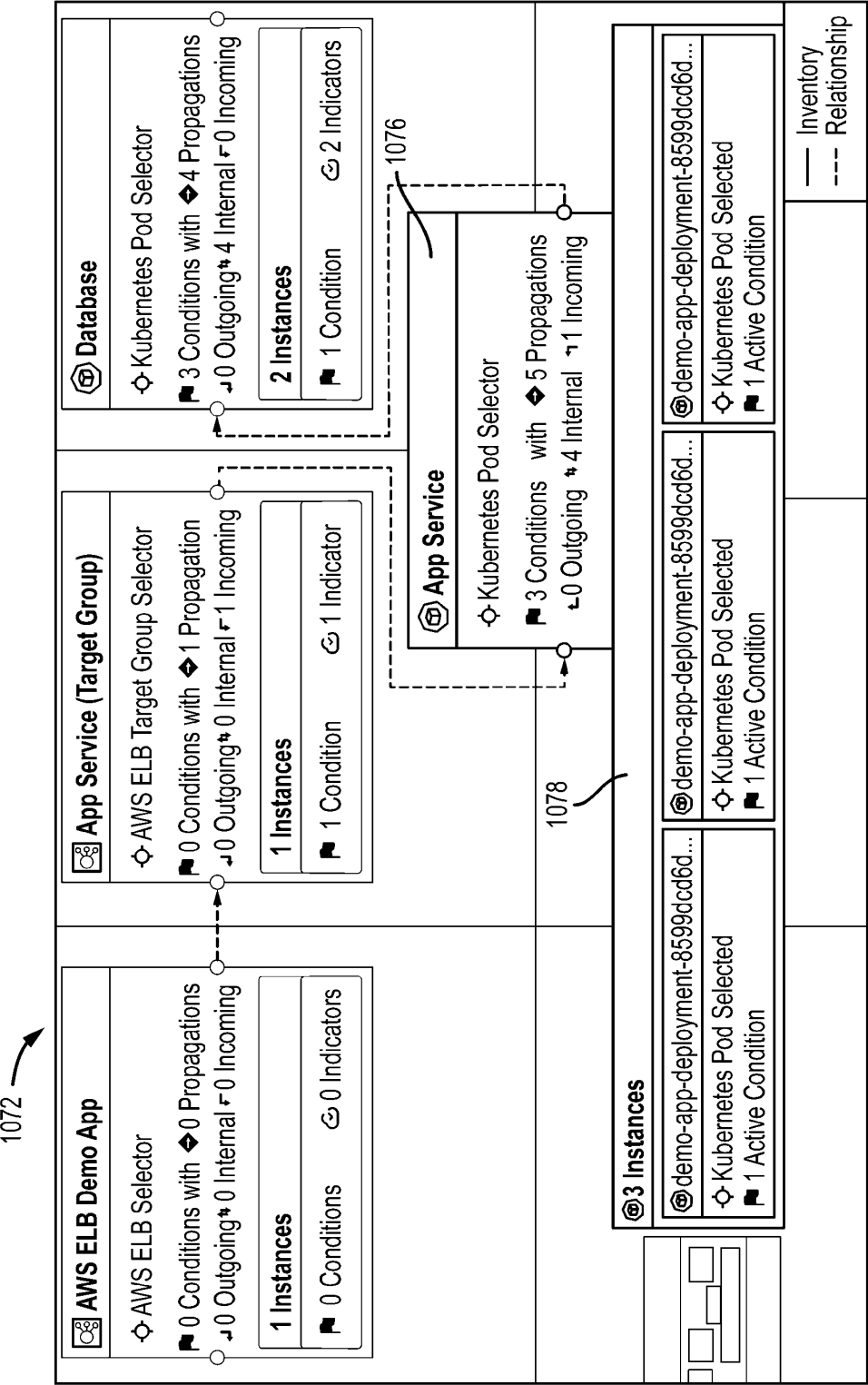


FIG. 100

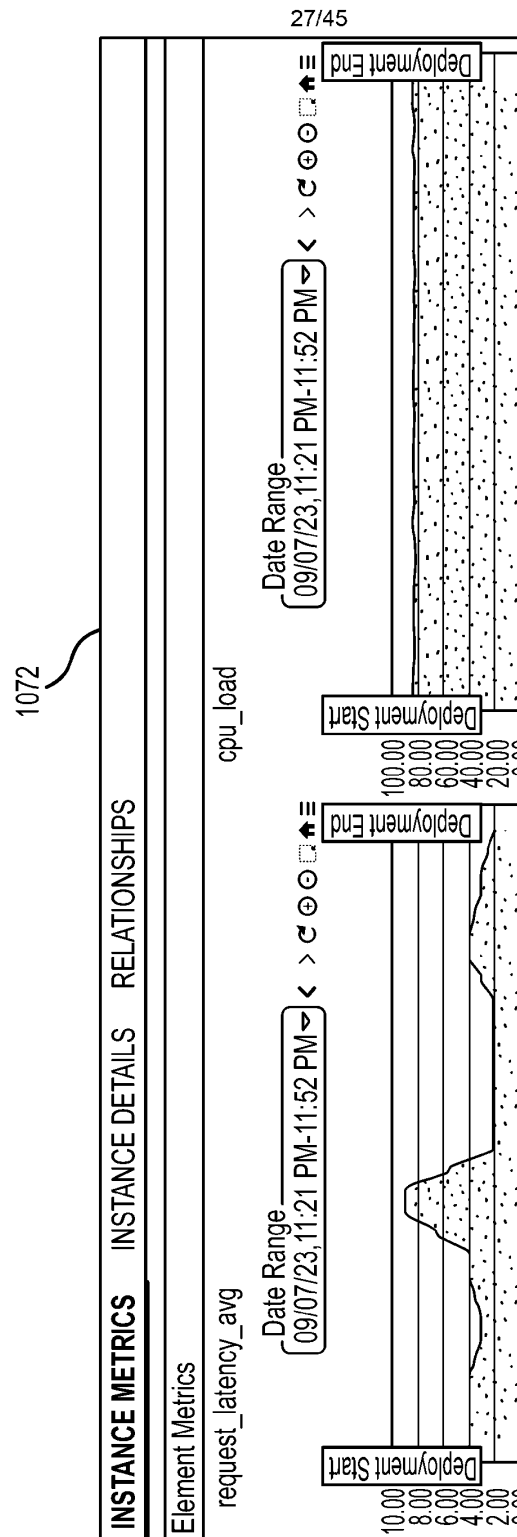


FIG. 10P

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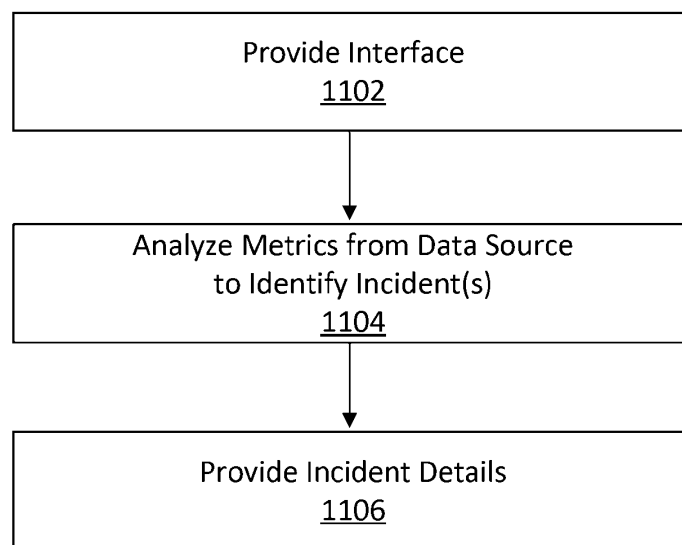


FIG. 11

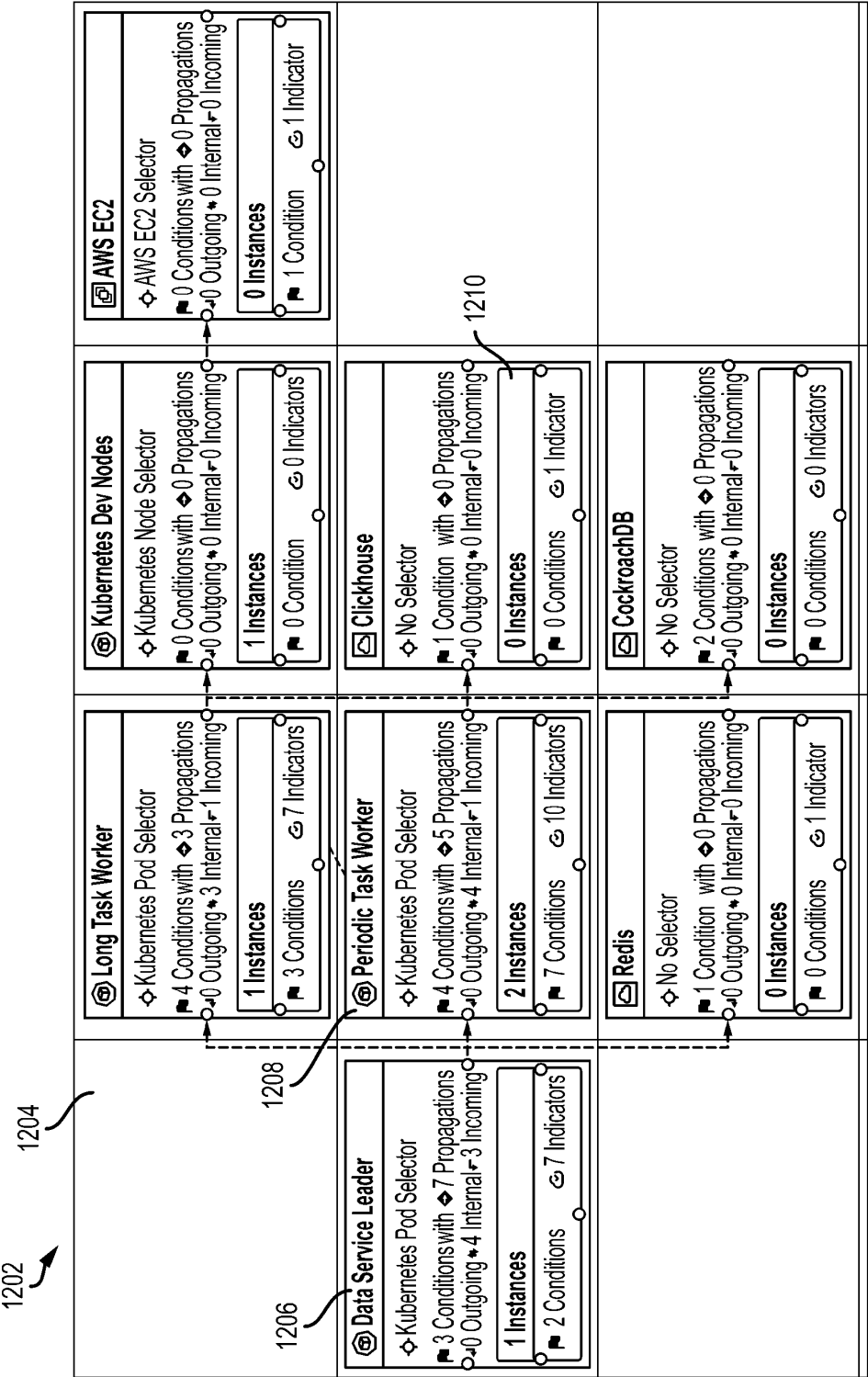


FIG. 12A

1222

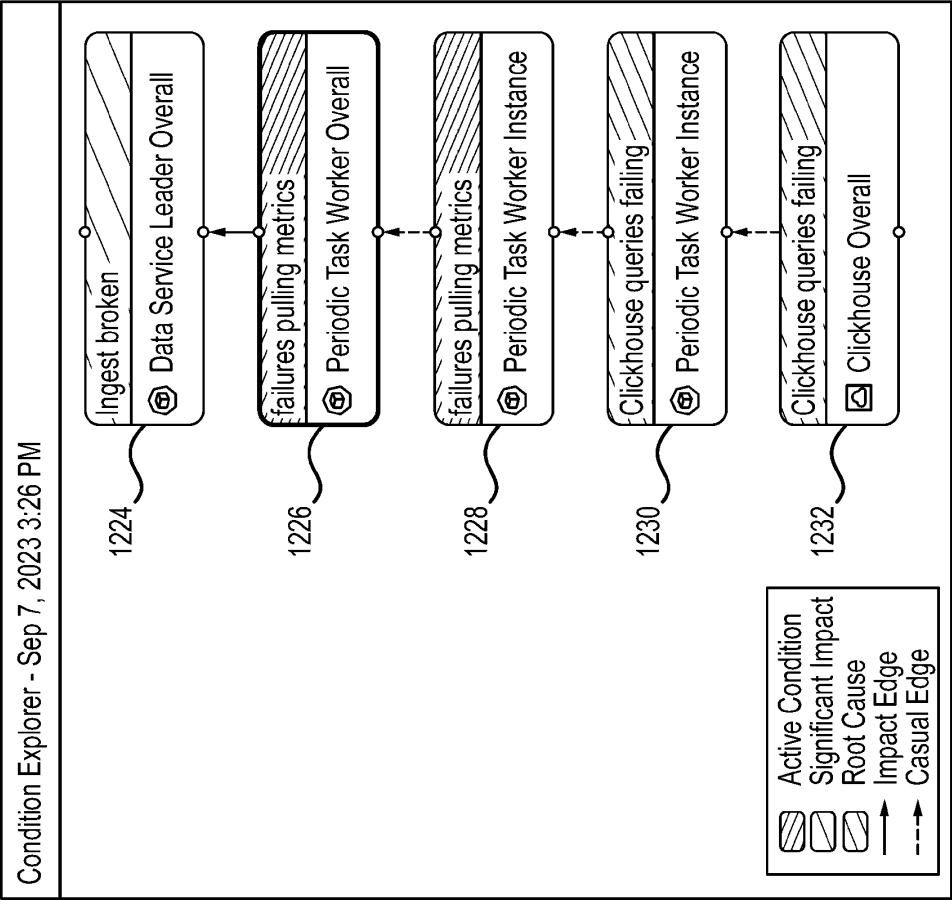


FIG. 12B

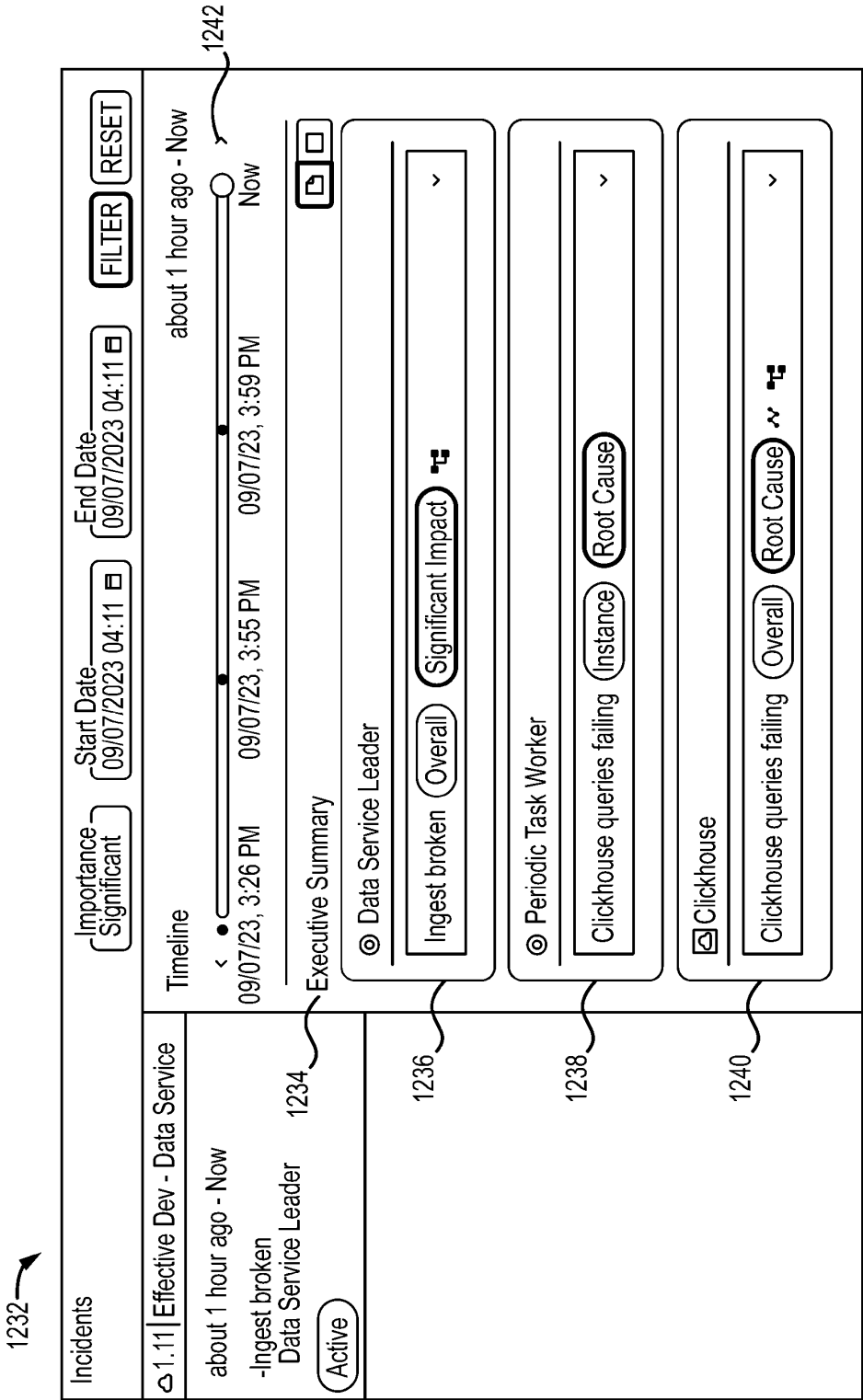
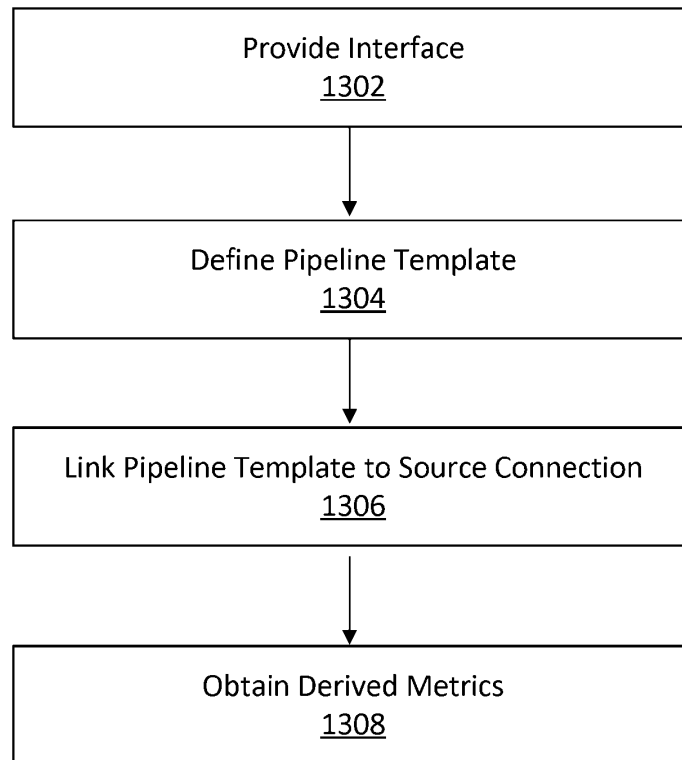


FIG. 12C

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**FIG. 13**

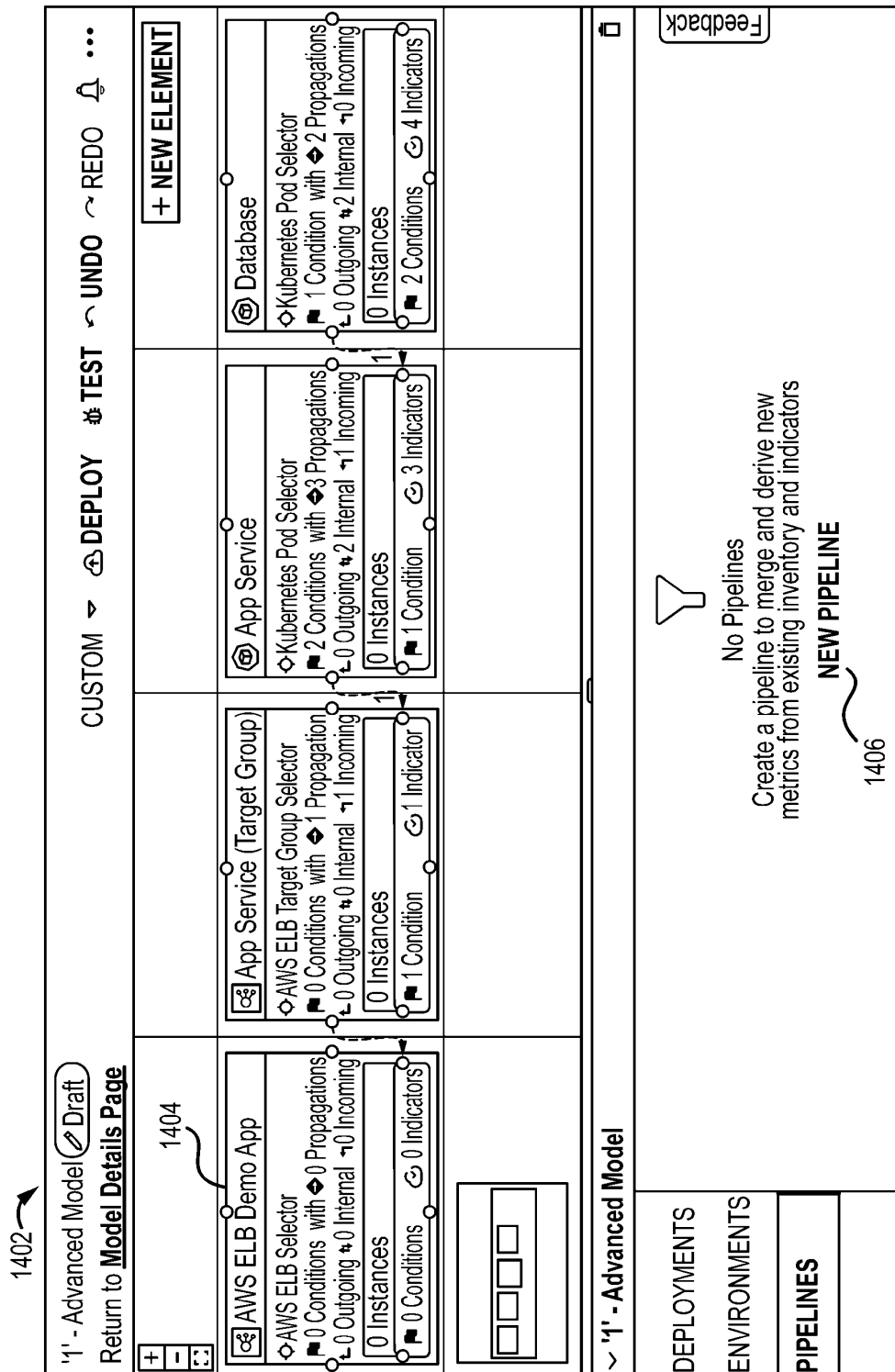


FIG. 14A

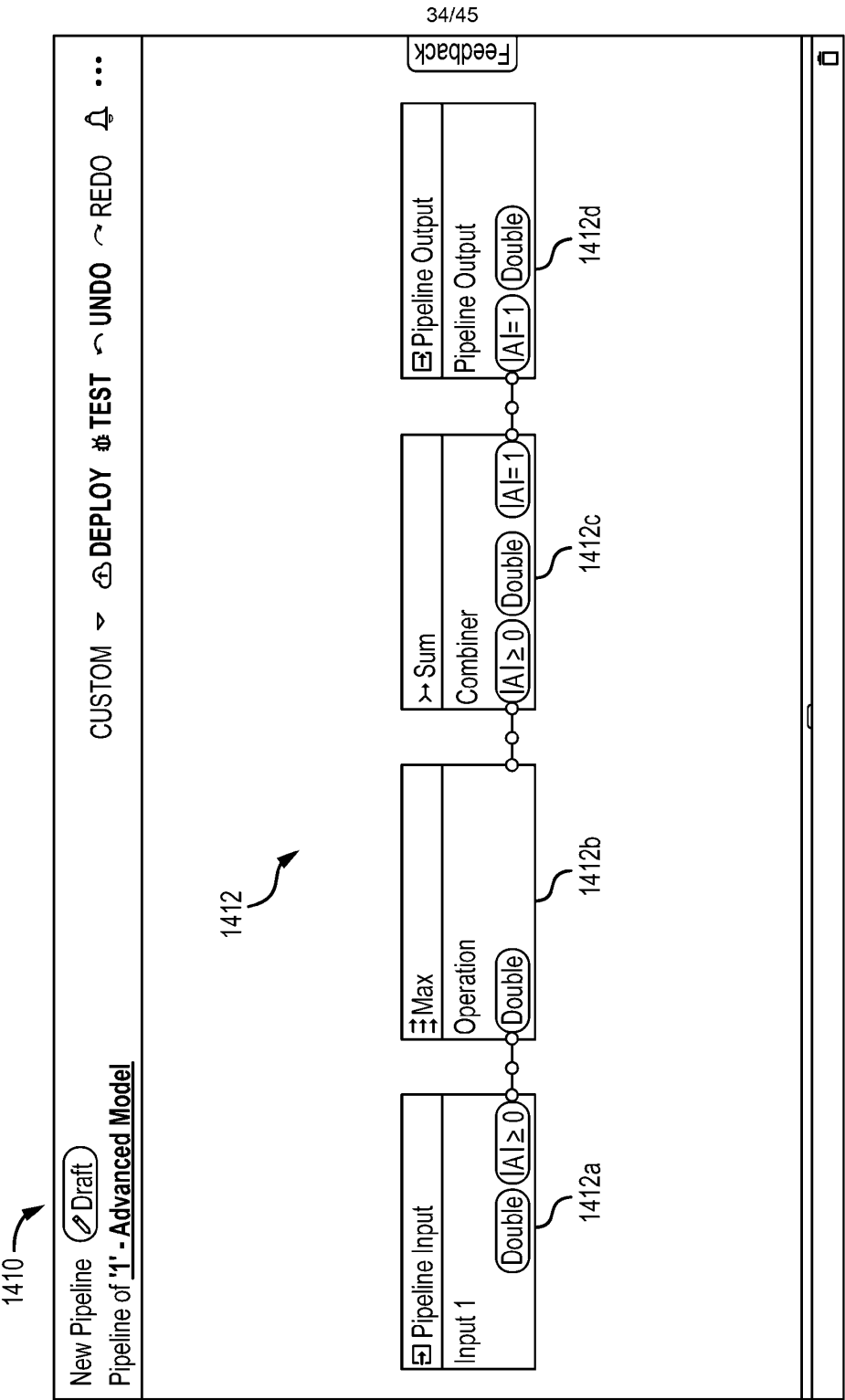


FIG. 14B

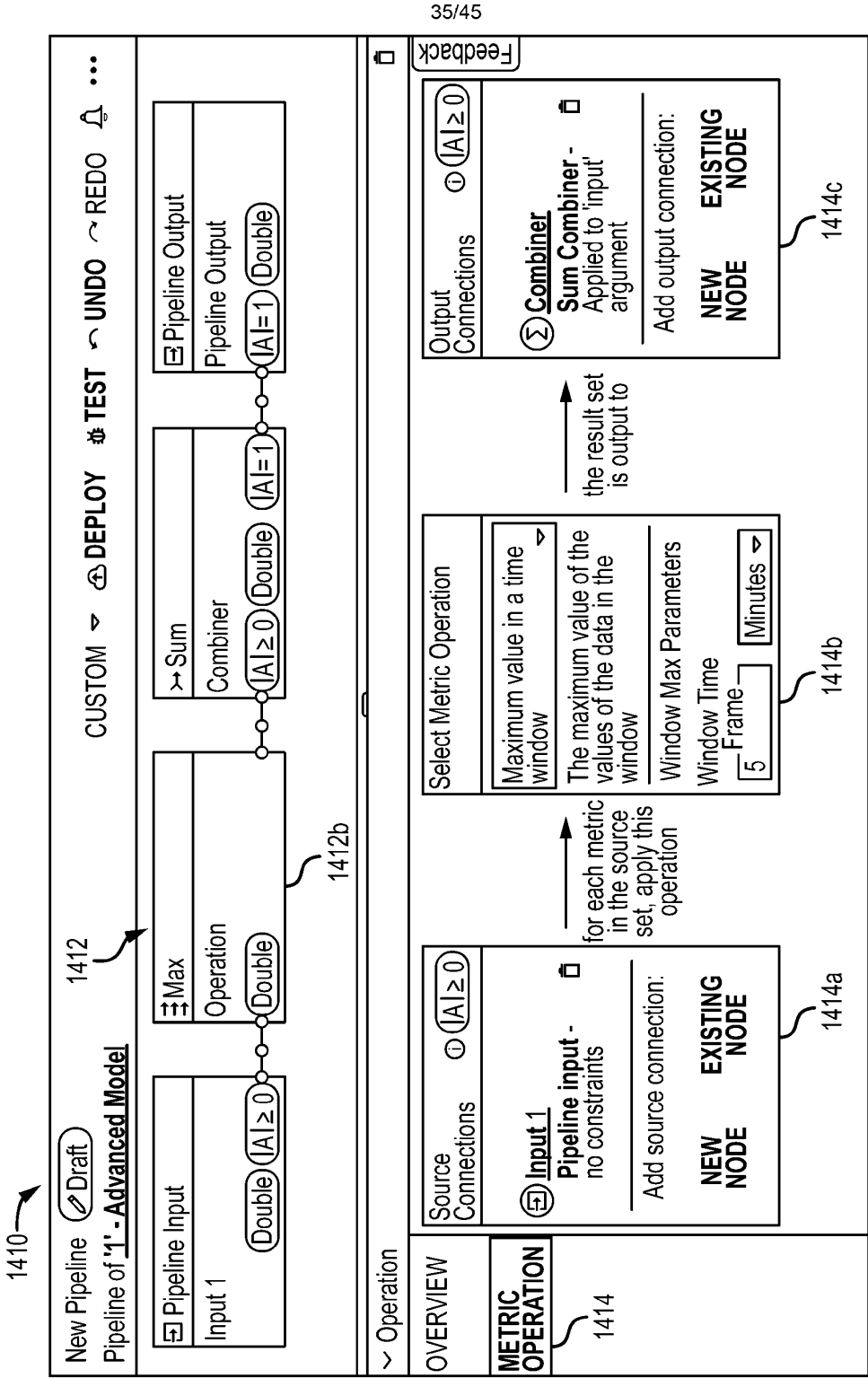
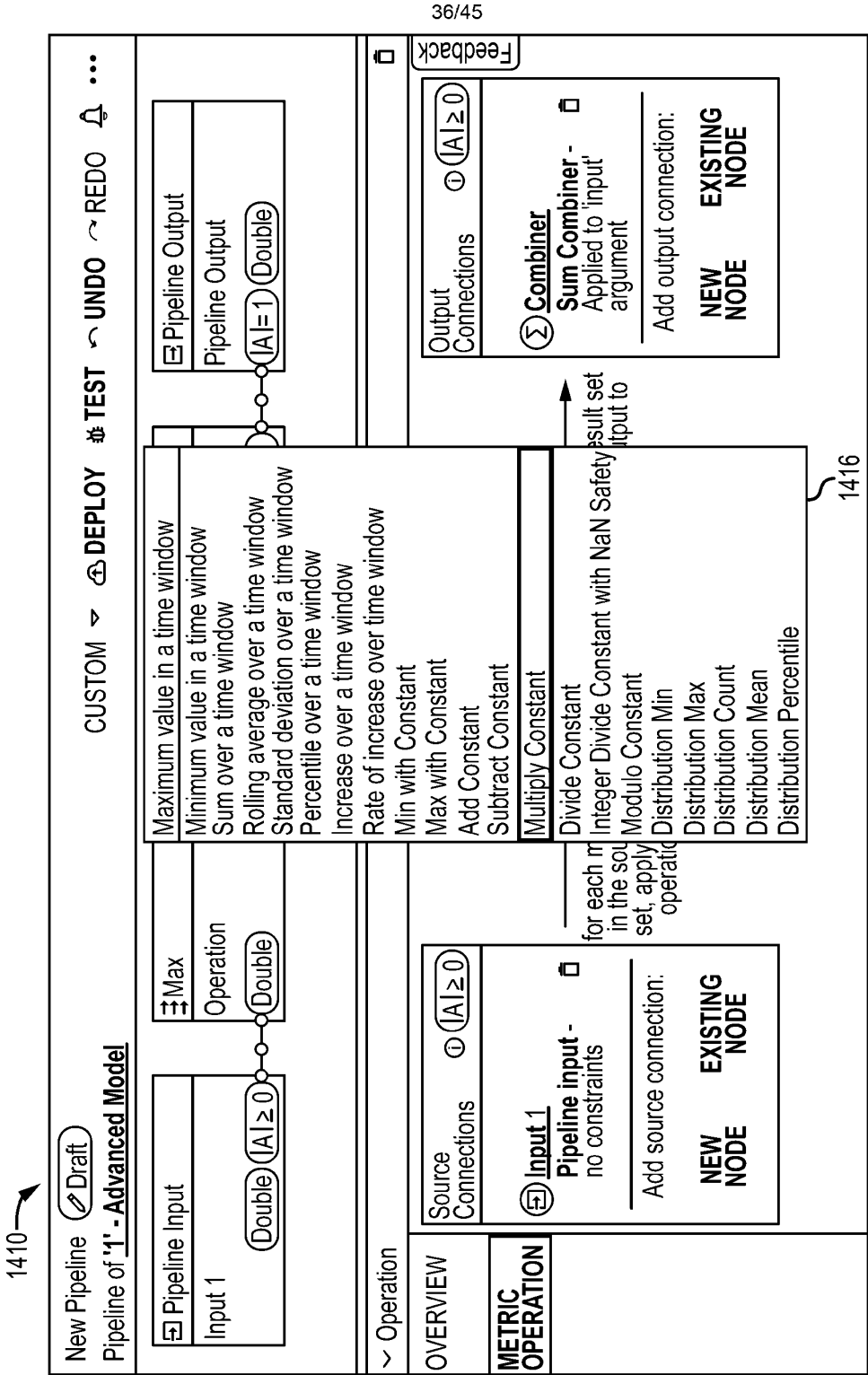


FIG. 14C



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FIG. 14D

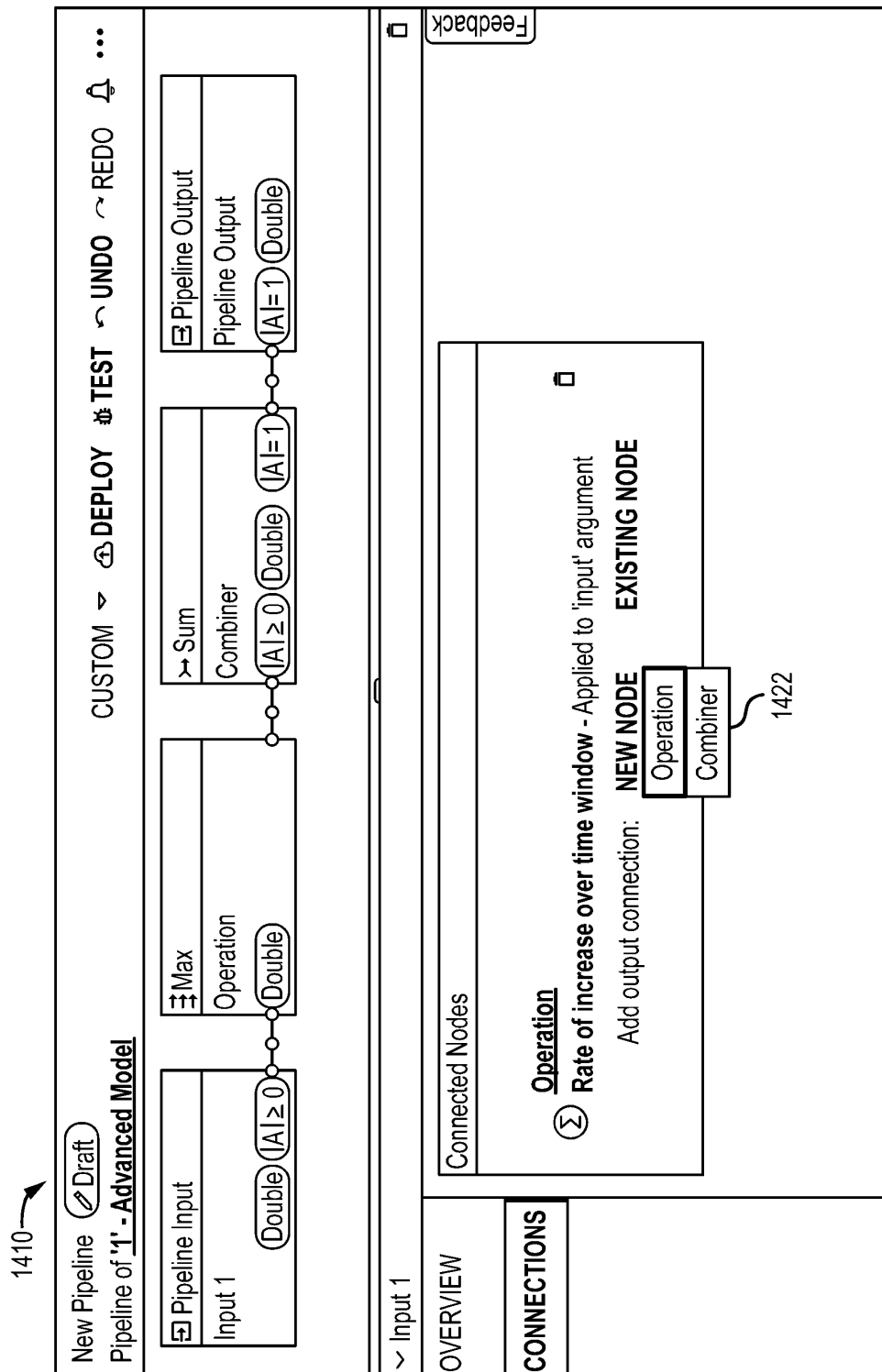


FIG. 14F

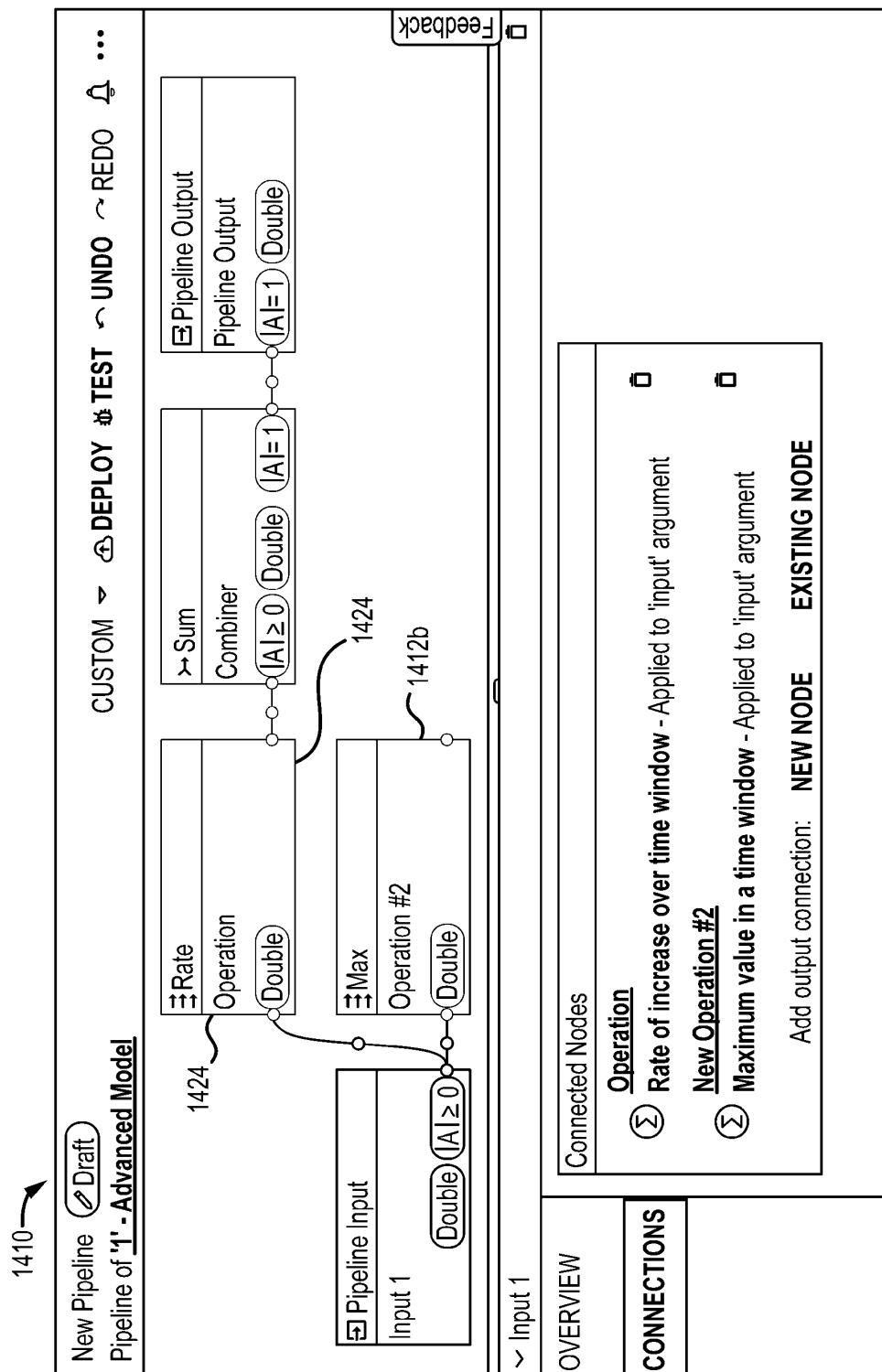


FIG. 14G

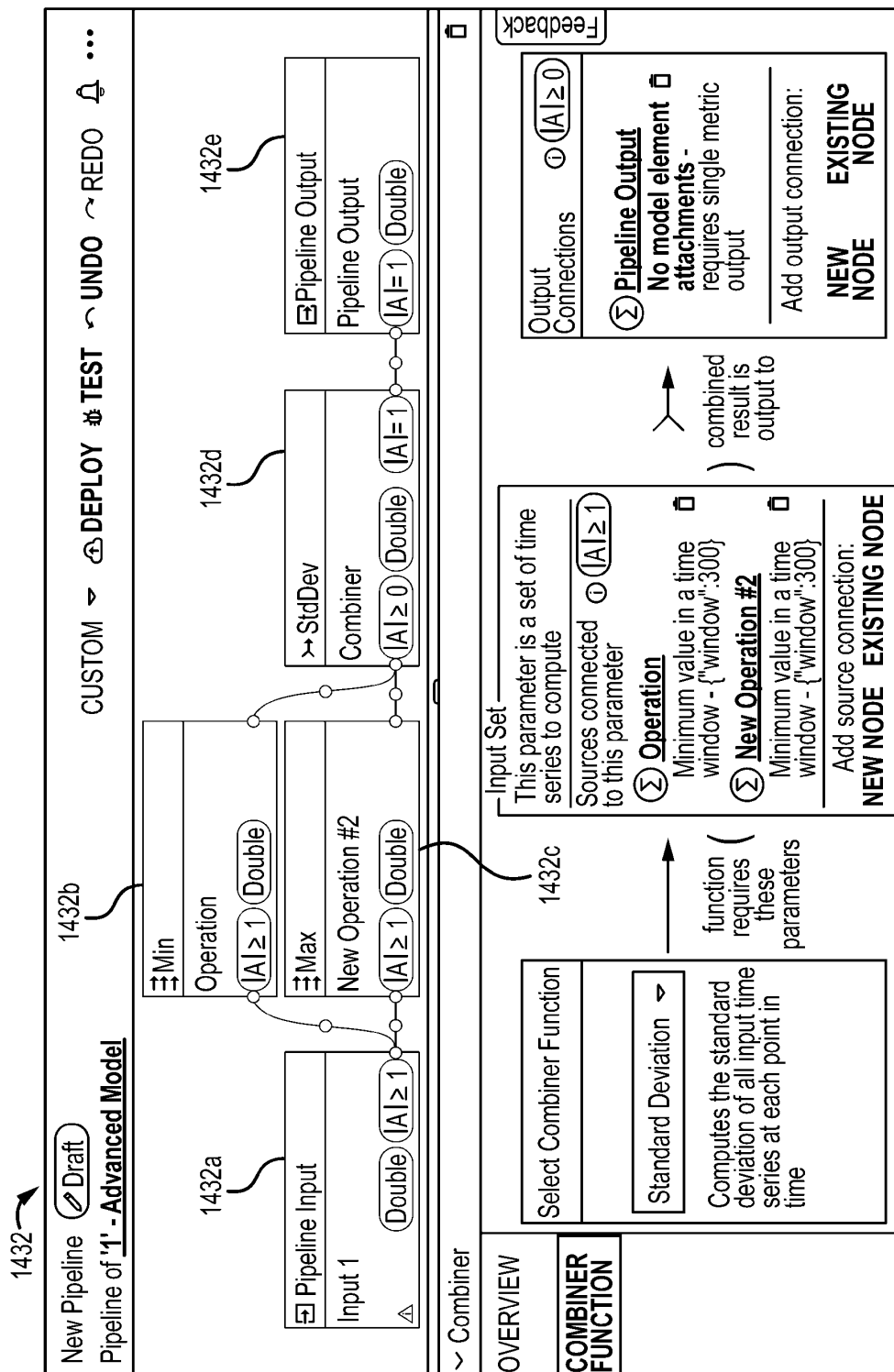
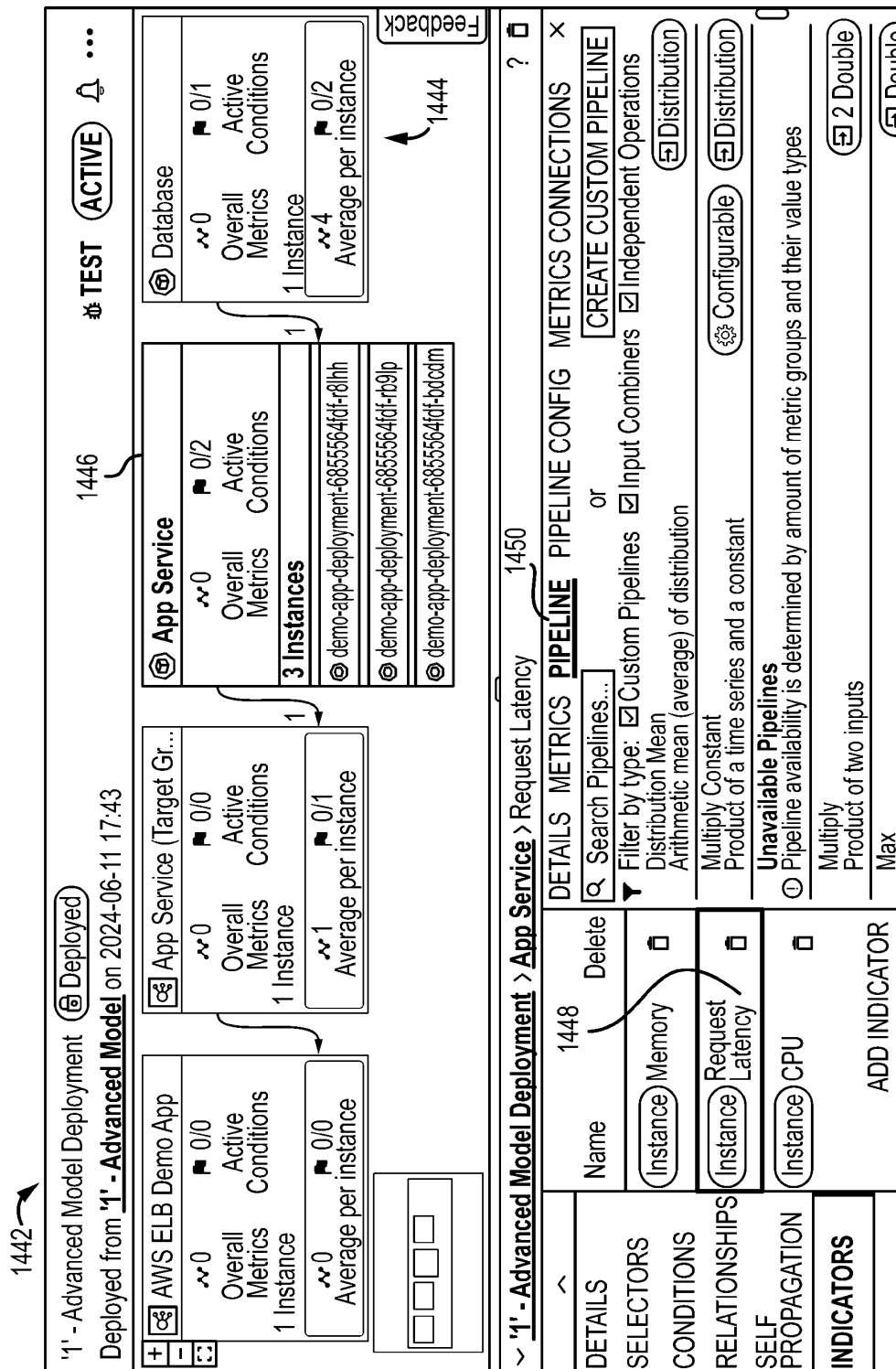


FIG. 14H



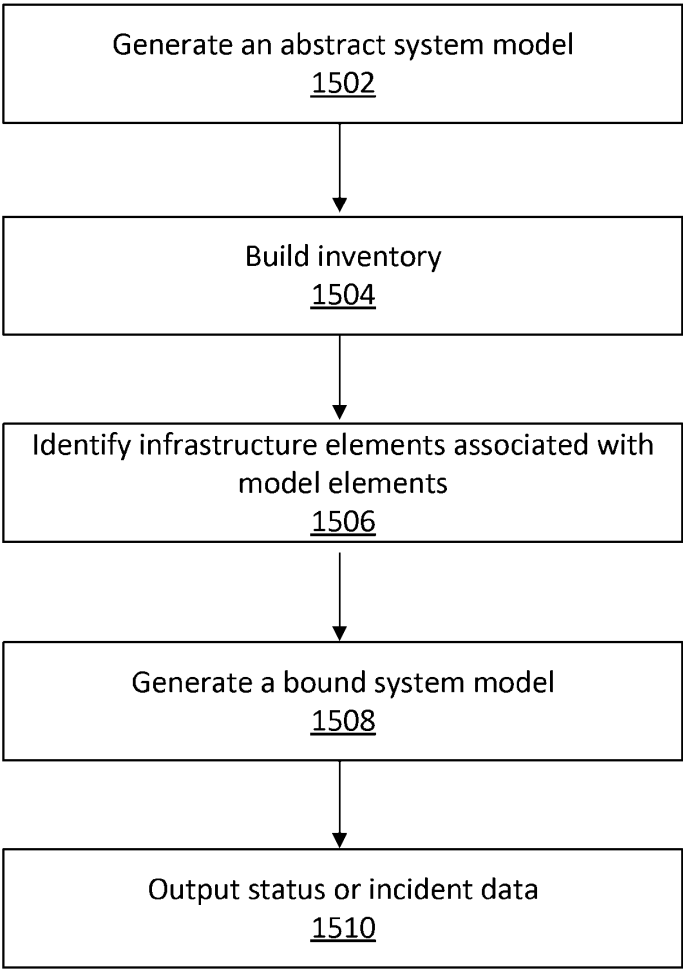
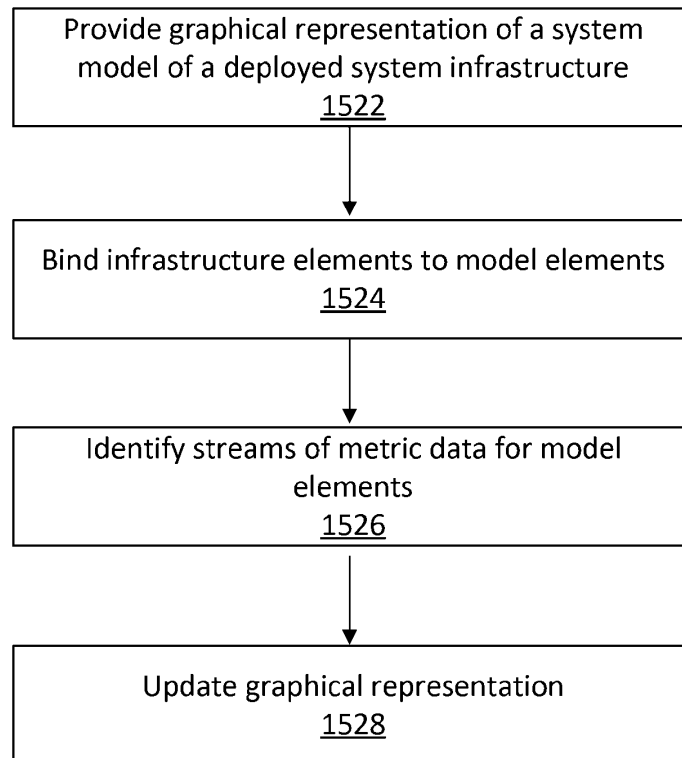
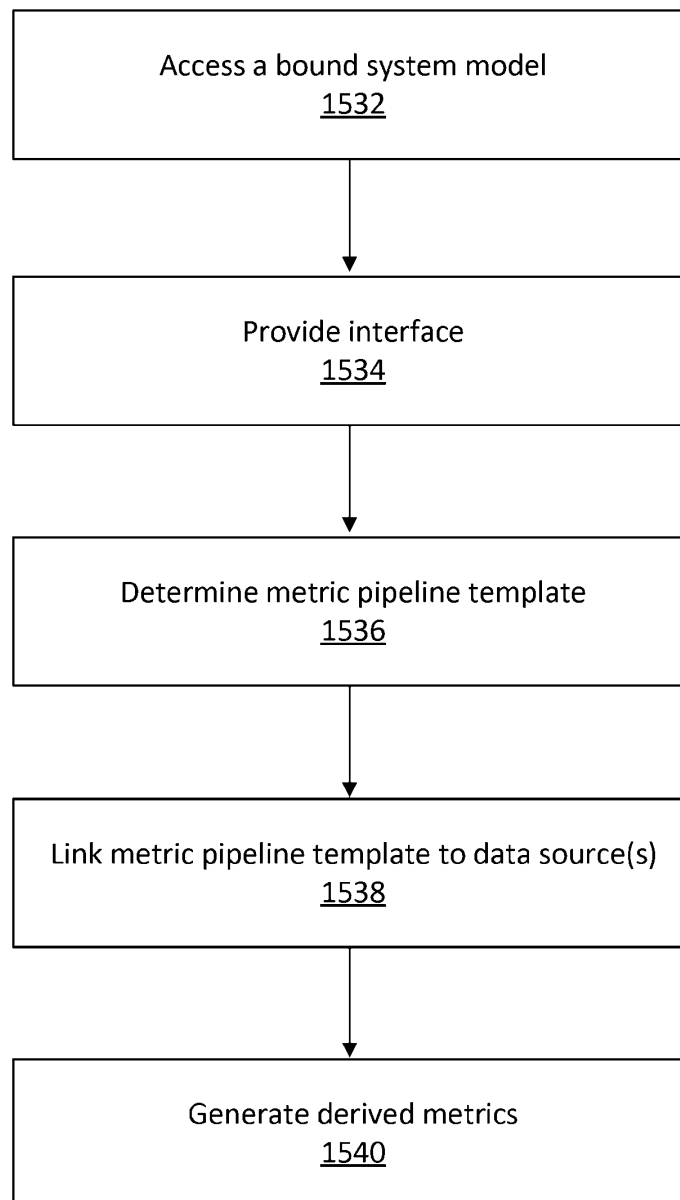


FIG. 15A

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**FIG. 15B**

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**FIG. 15C**

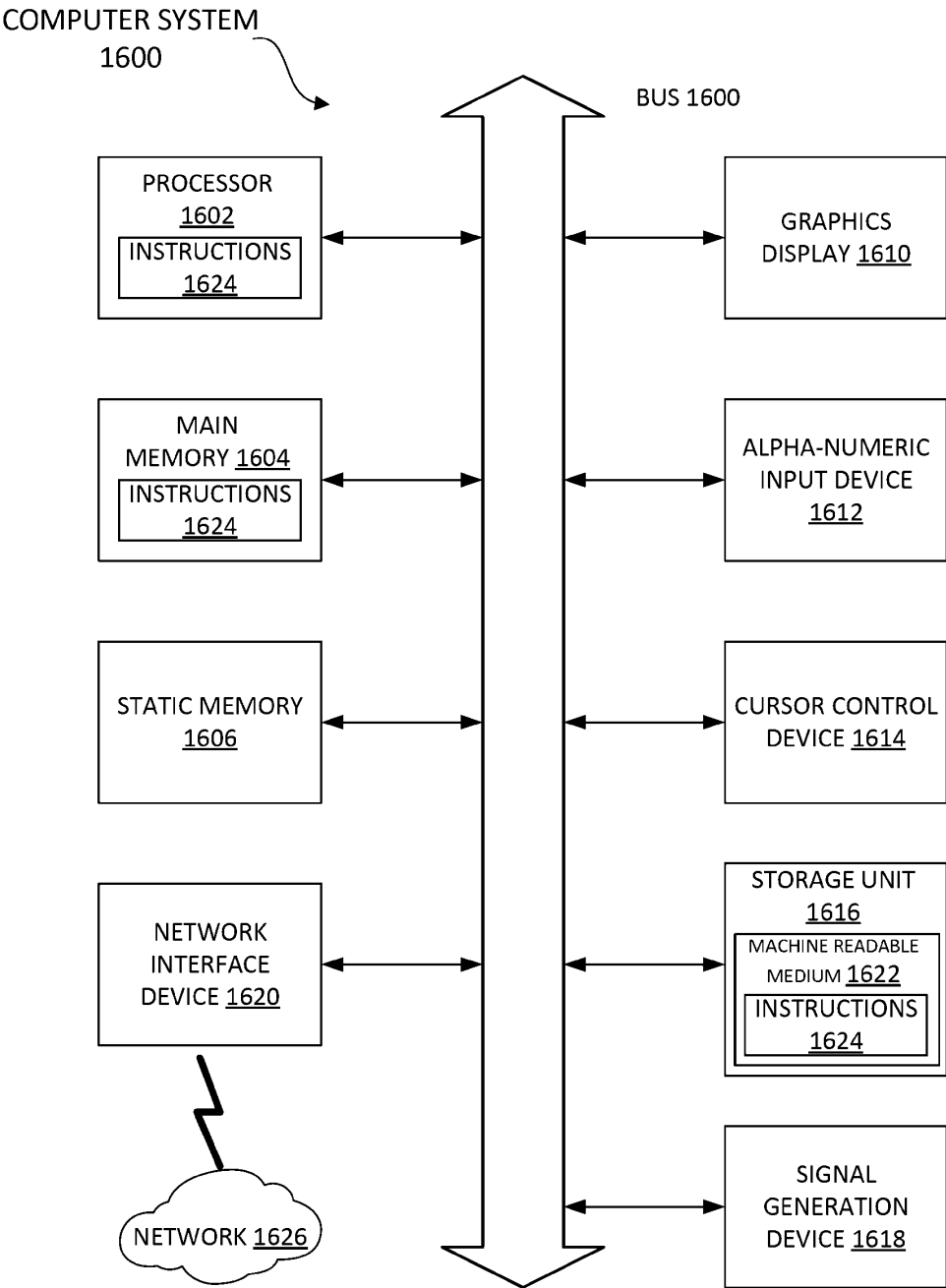


FIG. 16