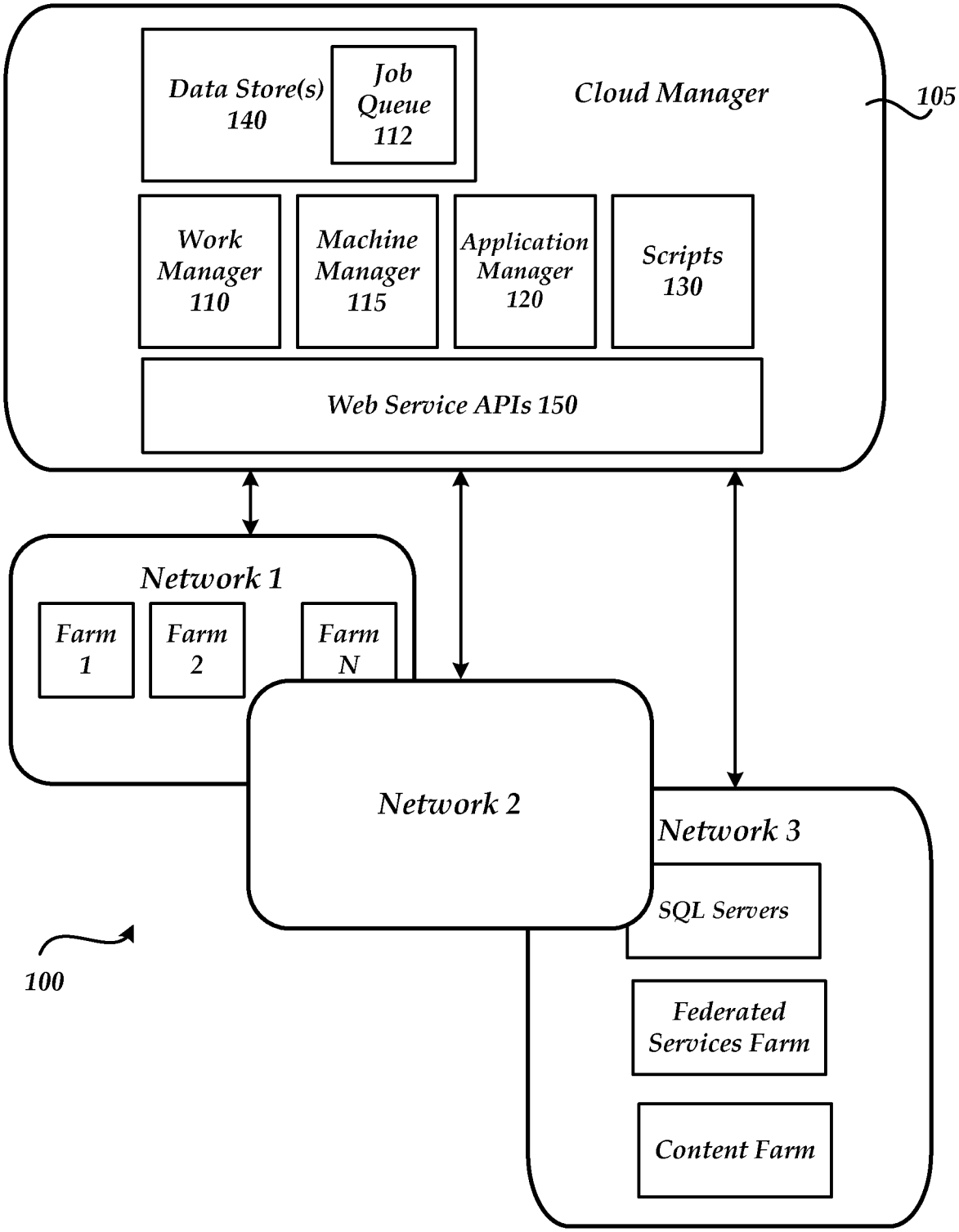
Data Store(s)
140
Job
Queue
112
Cloud Manager
105
Work
Manager
110
Machine
Manager
115
Application
Manager
120
Scripts
130
Web Service APIs 150
Network 1
Farm
1
Farm
2
Farm
N
Network 2
Network 3
SQL Servers
Federated
Services Farm
Content Farm
100

Fig. 1

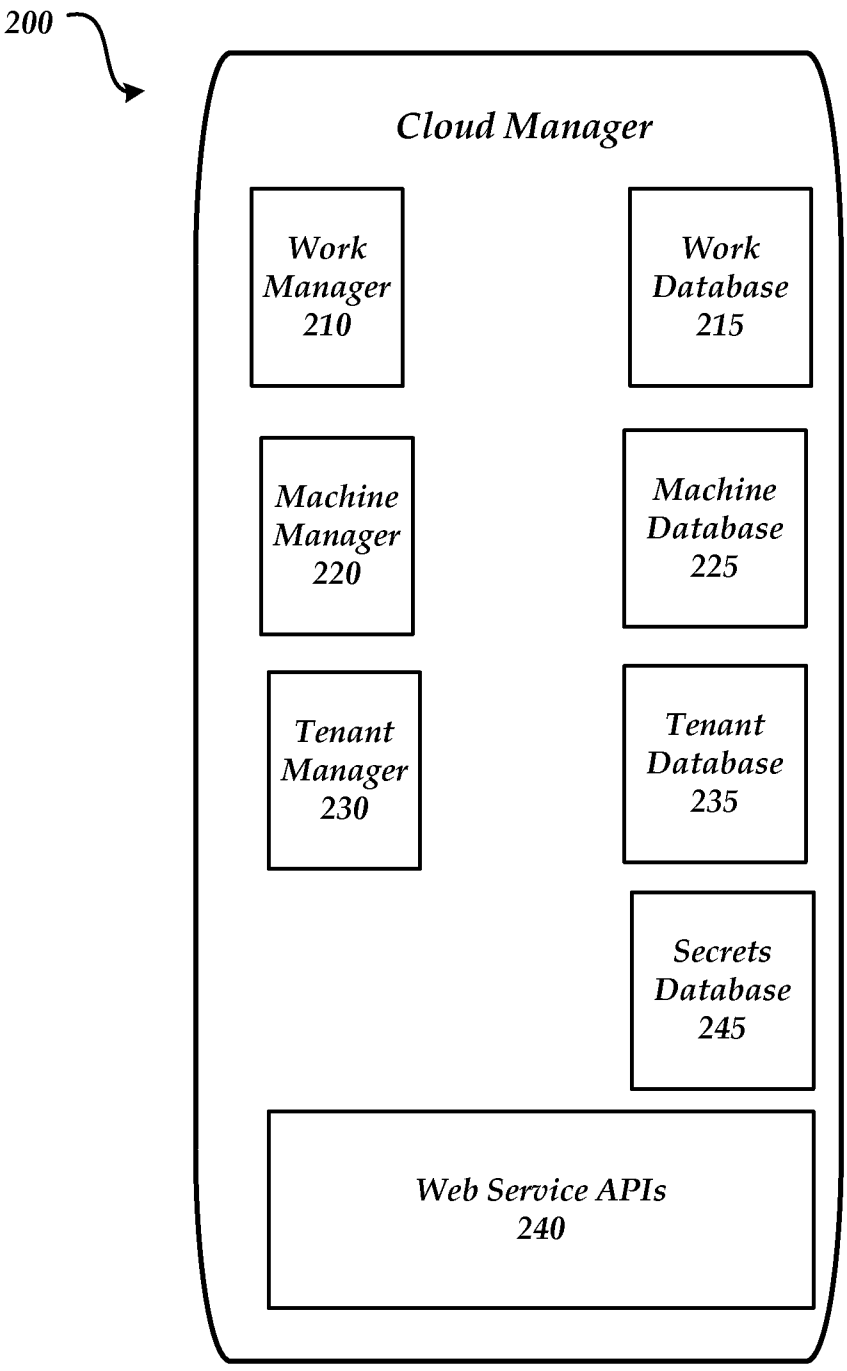
200
Cloud Manager
Work Manager 210
Work Database 215
Machine Manager 220
Machine Database 225
Tenant Manager 230
Tenant Database 235
Secrets Database 245
Web Service APIs 240

Fig. 2

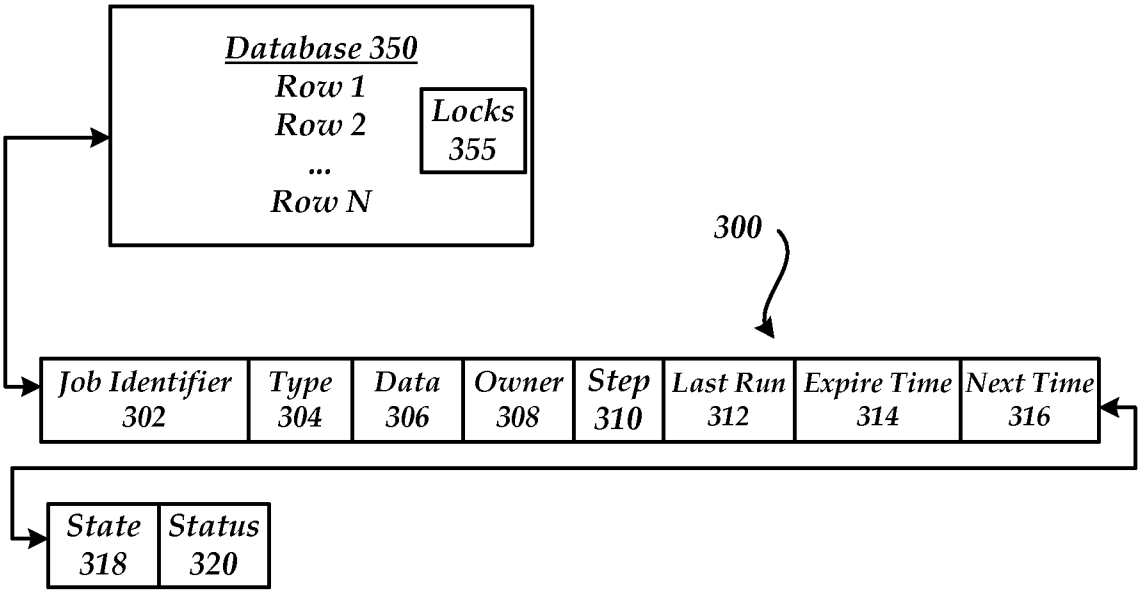
Database 350
Row 1
Row 2
...
Row N
Locks
355
300
Job Identifier
302
Type
304
Data
306
Owner
308
Step
310
Last Run
312
Expire Time
314
Next Time
316
State
318
Status
320

Fig. 3

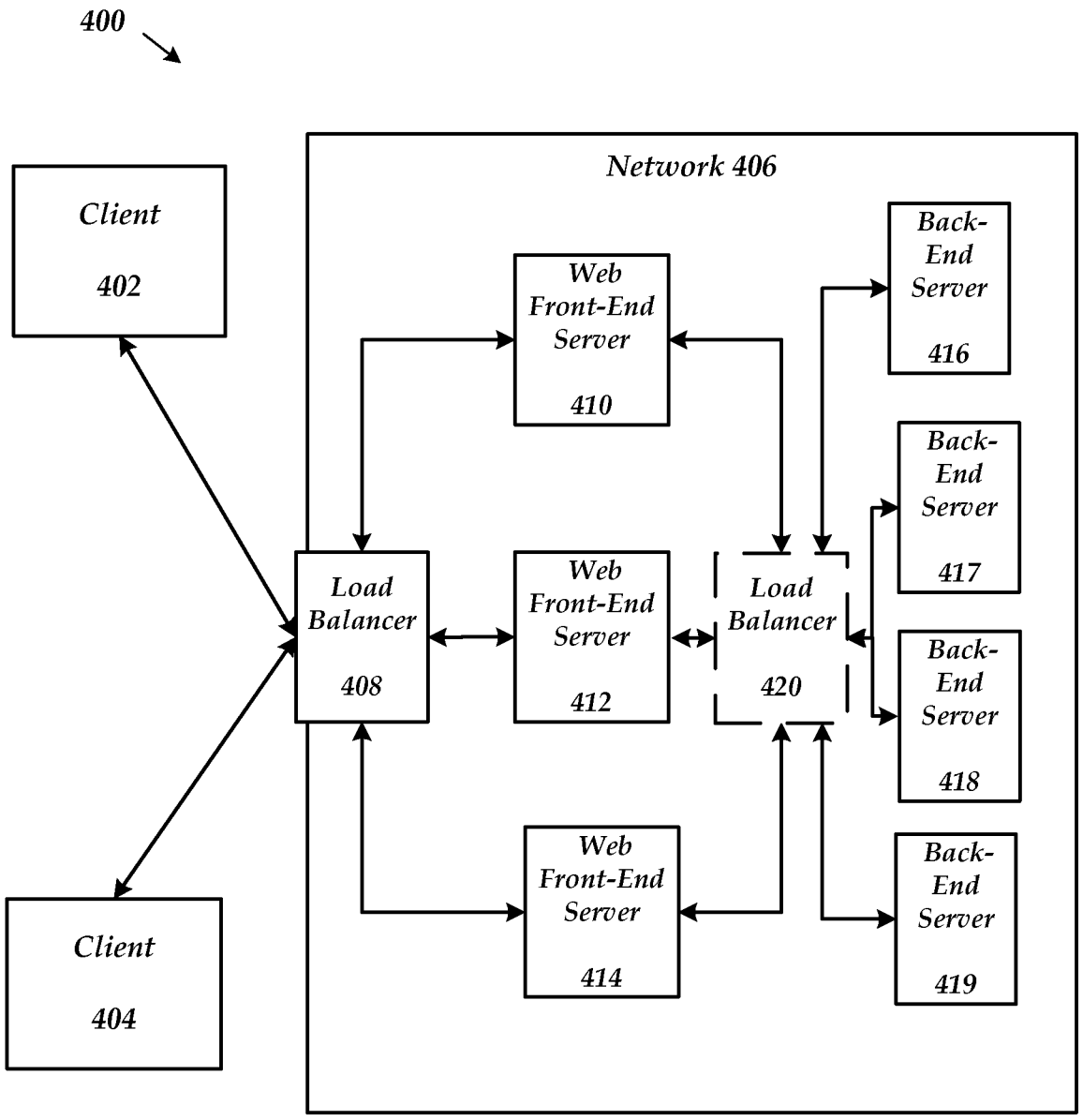
400
Network 406
Client
402
Client
404
Load
Balancer
408
Web
Front-End
Server
410
Web
Front-End
Server
412
Web
Front-End
Server
414
Load
Balancer
420
Back-
End
Server
416
Back-
End
Server
417
Back-
End
Server
418
Back-
End
Server
419

Fig. 4

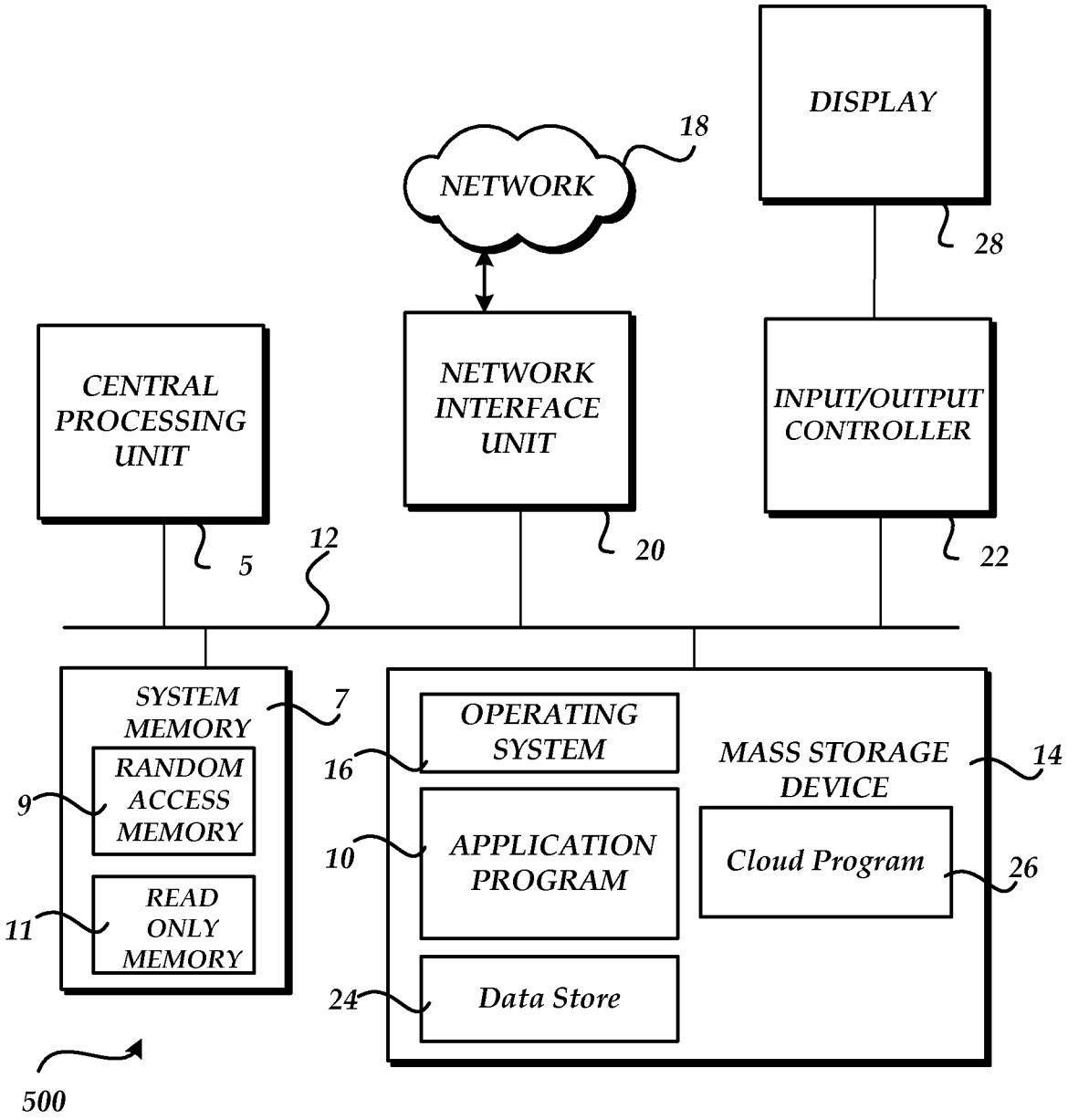
DISPLAY
18
NETWORK
28
CENTRAL PROCESSING UNIT
NETWORK INTERFACE UNIT
INPUT/OUTPUT CONTROLLER
5
12
20
22
SYSTEM MEMORY
7
RANDOM ACCESS MEMORY
9
READ ONLY MEMORY
11
OPERATING SYSTEM
16
APPLICATION PROGRAM
10
Data Store
24
MASS STORAGE DEVICE
14
Cloud Program
26
500

Fig. 5

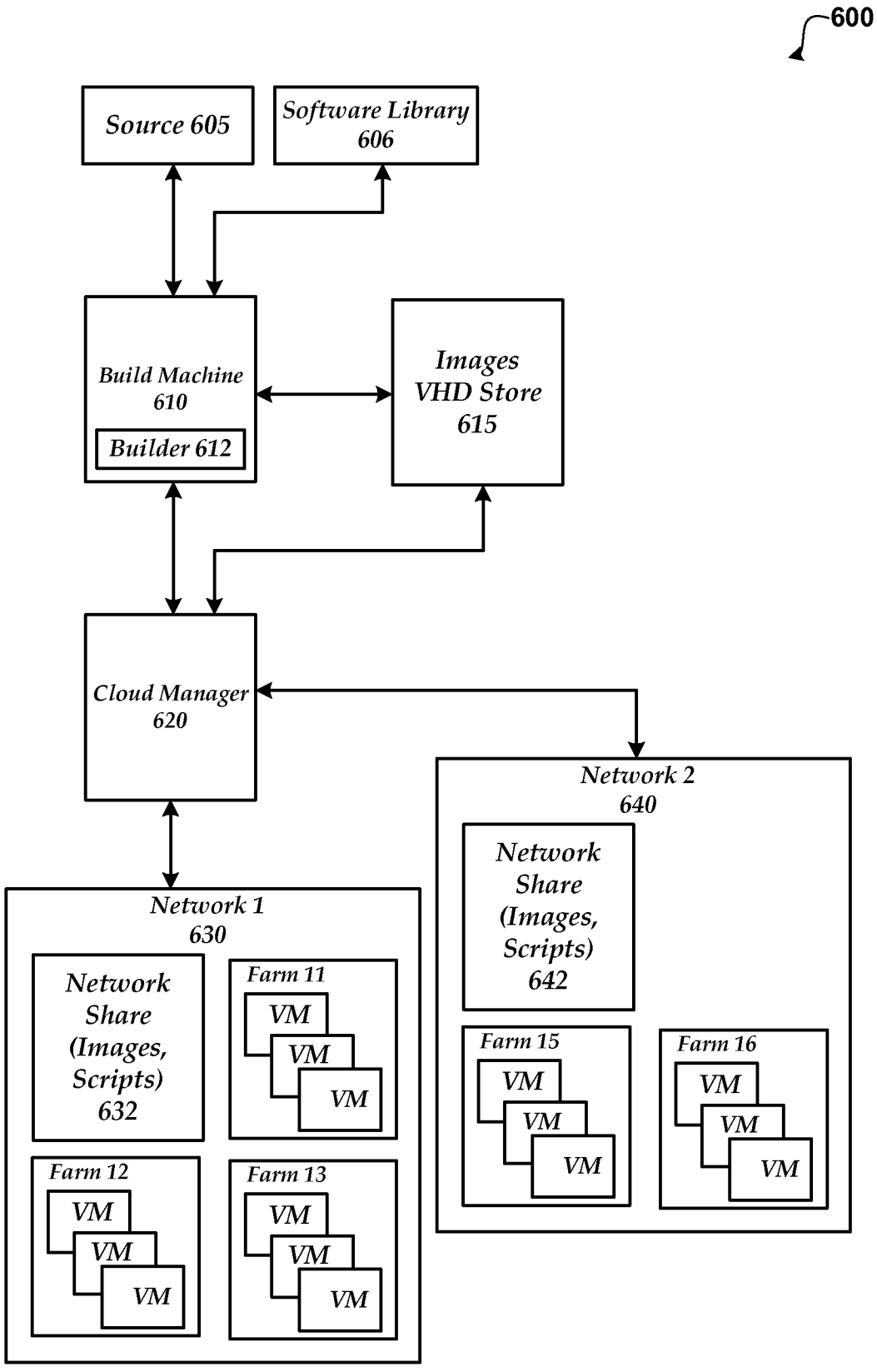
600
Source 605
Software Library 606
Build Machine 610
Builder 612
Images VHD Store 615
Cloud Manager 620
Network 1 630
Network Share (Images, Scripts) 632
Farm 11
VM
VM
VM
Farm 12
VM
VM
VM
Farm 13
VM
VM
VM
Network 2 640
Network Share (Images, Scripts) 642
Farm 15
VM
VM
VM
Farm 16
VM
VM
VM

Fig. 6

700

```
<Project xmlns="http://schemas.microsoft.com/developer/msbuild/2003" ToolsVersion="3.5">
  <Import Project="$(GIBS_PATH)\GIBS.Targets"/>

  <PropertyGroup>                                                    710
    <SharePointVersion>14.0.3524.1004</SharePointVersion>
    <SharePointPath>sharepoint\$(SharePointVersion)_OfficeServer_none_ship_x64_en-us</
SharePointPath>
  </PropertyGroup>

  <ItemGroup>                                                        720
    <ProjectReference Include="$(basesharepoint-projpath)"/>
    <ResourceReference Include="\\officerel\RELEASES\Office14\server\en-us\
$(SharePointPath)">
      <RelativePath>$(SharePointPath)</RelativePath>
    </ResourceReference>
  </ItemGroup>


  <Target
    Name="default"                                                   730
    DependsOnTargets="RunDependencies"
    Inputs="$(basesharepoint-vhdfullpath)"
    Outputs="$(wfe-vhdfullpath)">

    <NewVM Name="WFE" ComputerName="WFE" VHD="$(basesharepoint-vhdfullpath)"/>
    <StartVM Name="WFE"/>
    <PowerShell ScriptFiles="Install-SharePoint.ps1 -WFE -Version $(SharePointVersion)"
ComputerName="WFE"/>
    <ShutdownVM Name="WFE" Sysprep="True"/>
    <RemoveVM VHDPath="$(wfe-vhdfullpath)" ManifestPath="$(wfe-manifestfullpath)"/>

  </Target>
</Project>
```

Fig. 7

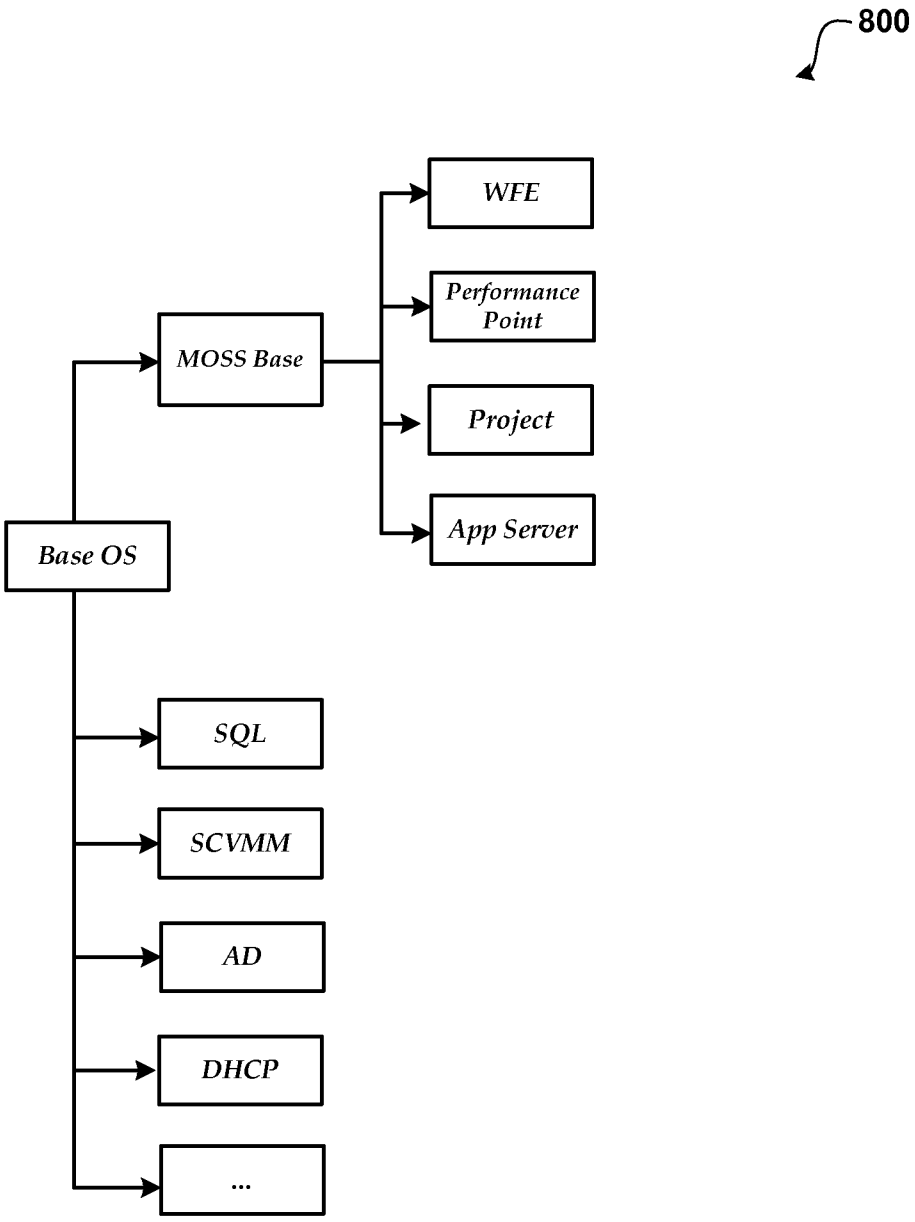
800
WFE
Performance Point
MOSS Base
Project
App Server
Base OS
SQL
SCVMM
AD
DHCP
...

Fig. 8

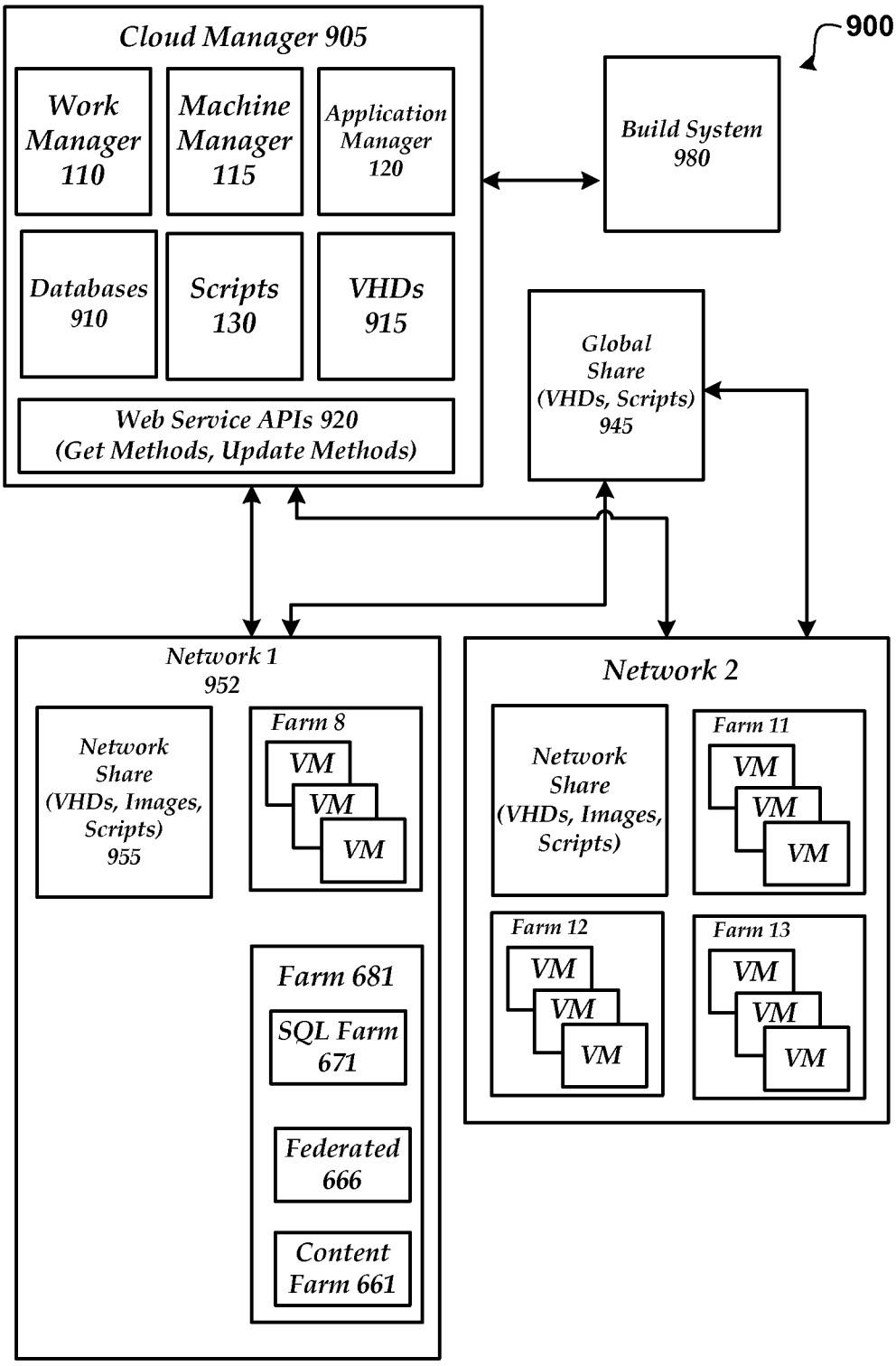
900
Cloud Manager 905
Work Manager 110
Machine Manager 115
Application Manager 120
Databases 910
Scripts 130
VHDs 915
Web Service APIs 920 (Get Methods, Update Methods)
Build System 980
Global Share (VHDs, Scripts) 945
Network 1 952
Network Share (VHDs, Images, Scripts) 955
Farm 8
VM
VM
VM
Farm 681
SQL Farm 671
Federated 666
Content Farm 661
Network 2
Network Share (VHDs, Images, Scripts)
Farm 11
VM
VM
VM
Farm 12
VM
VM
VM
Farm 13
VM
VM
VM

Fig. 9

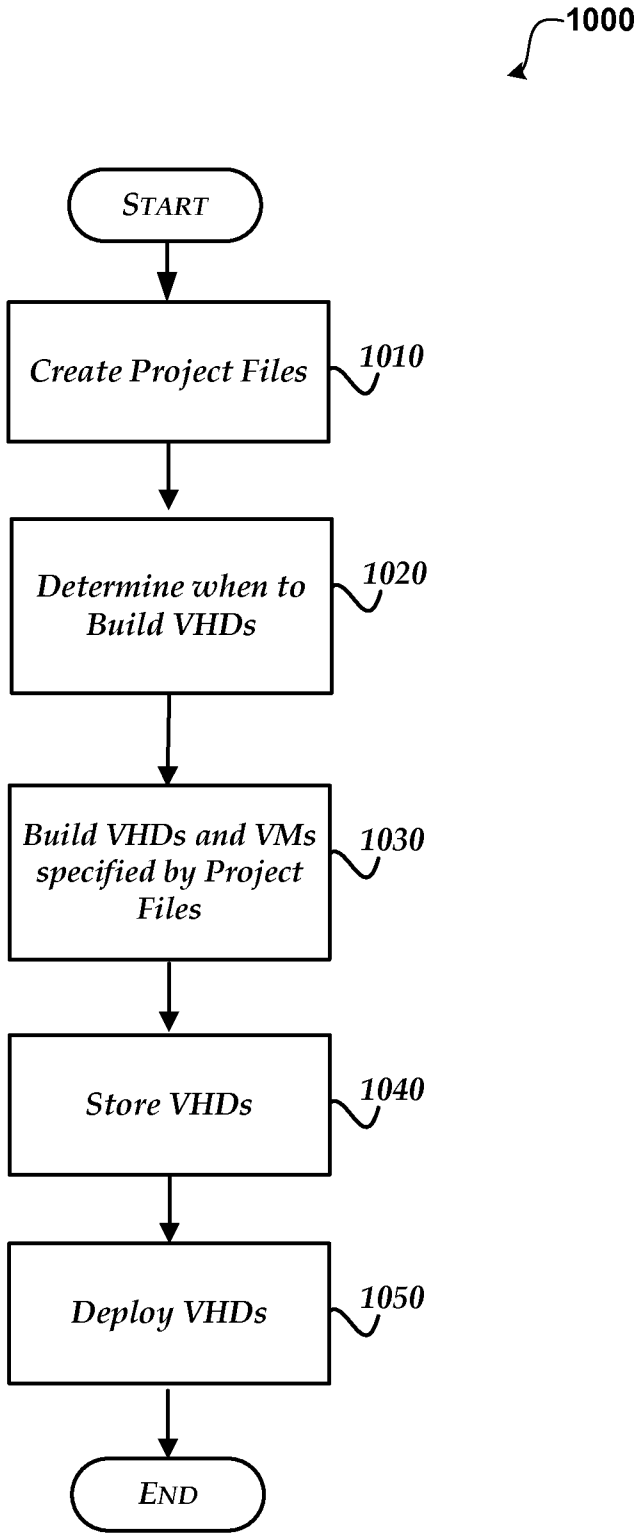
1000
START
Create Project Files
1010
Determine when to Build VHDs
1020
Build VHDs and VMs specified by Project Files
1030
Store VHDs
1040
Deploy VHDs
1050
END

Fig. 10