

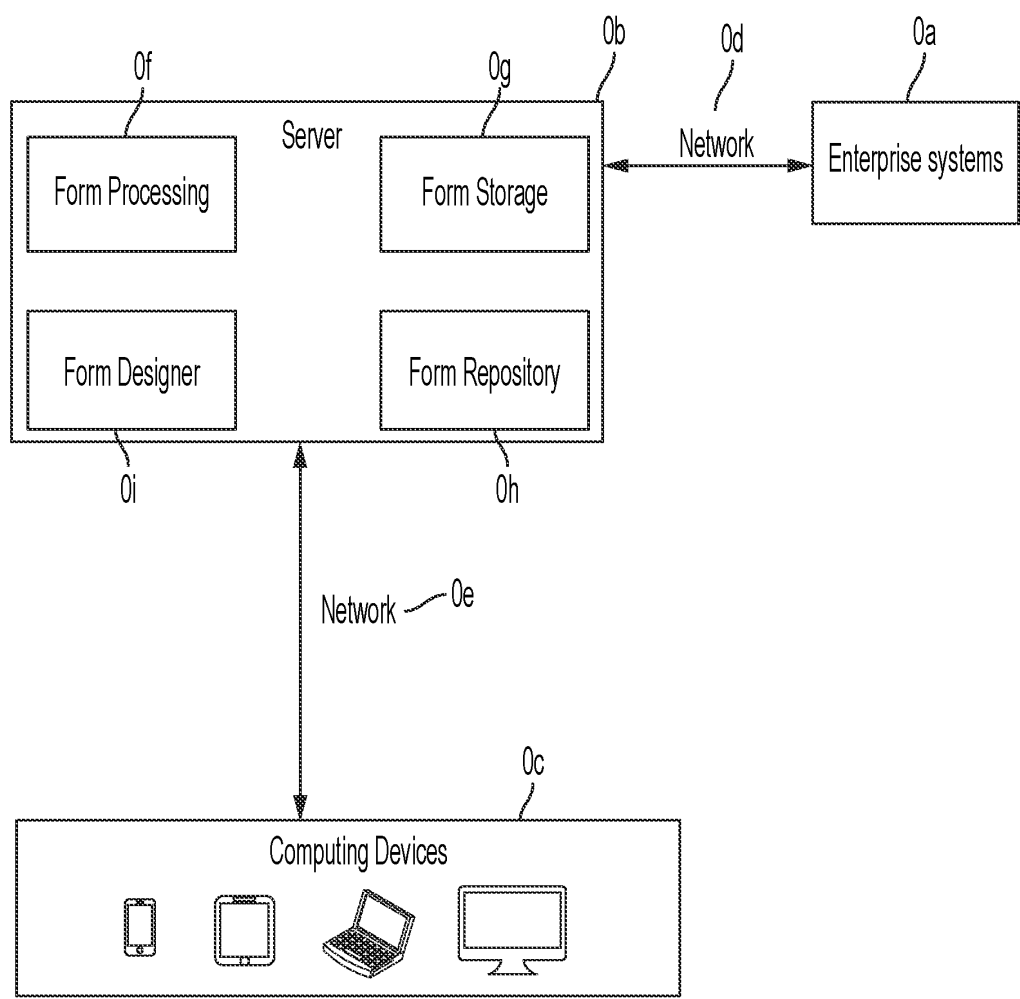


FIG. 1A

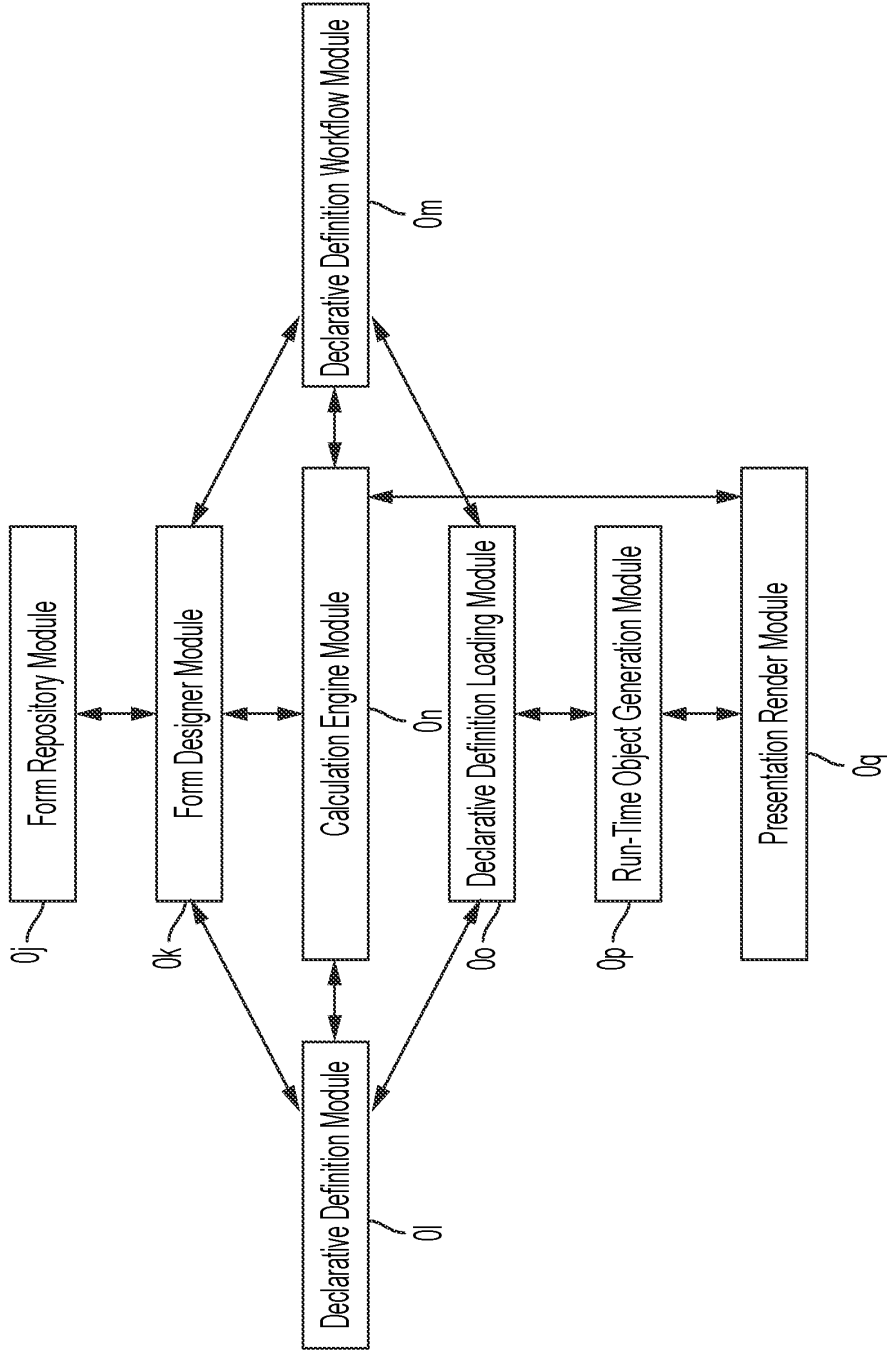


FIG. 1B

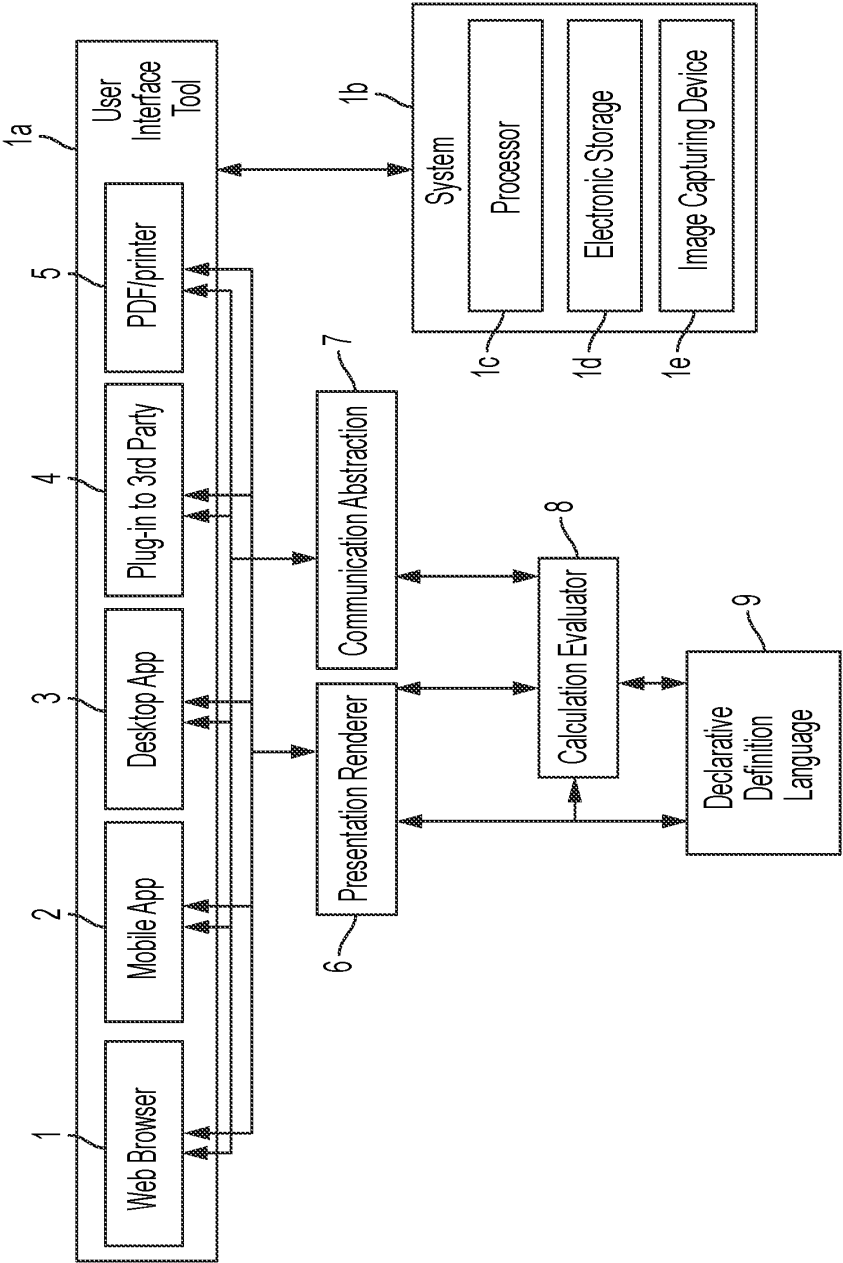


FIG. 1C

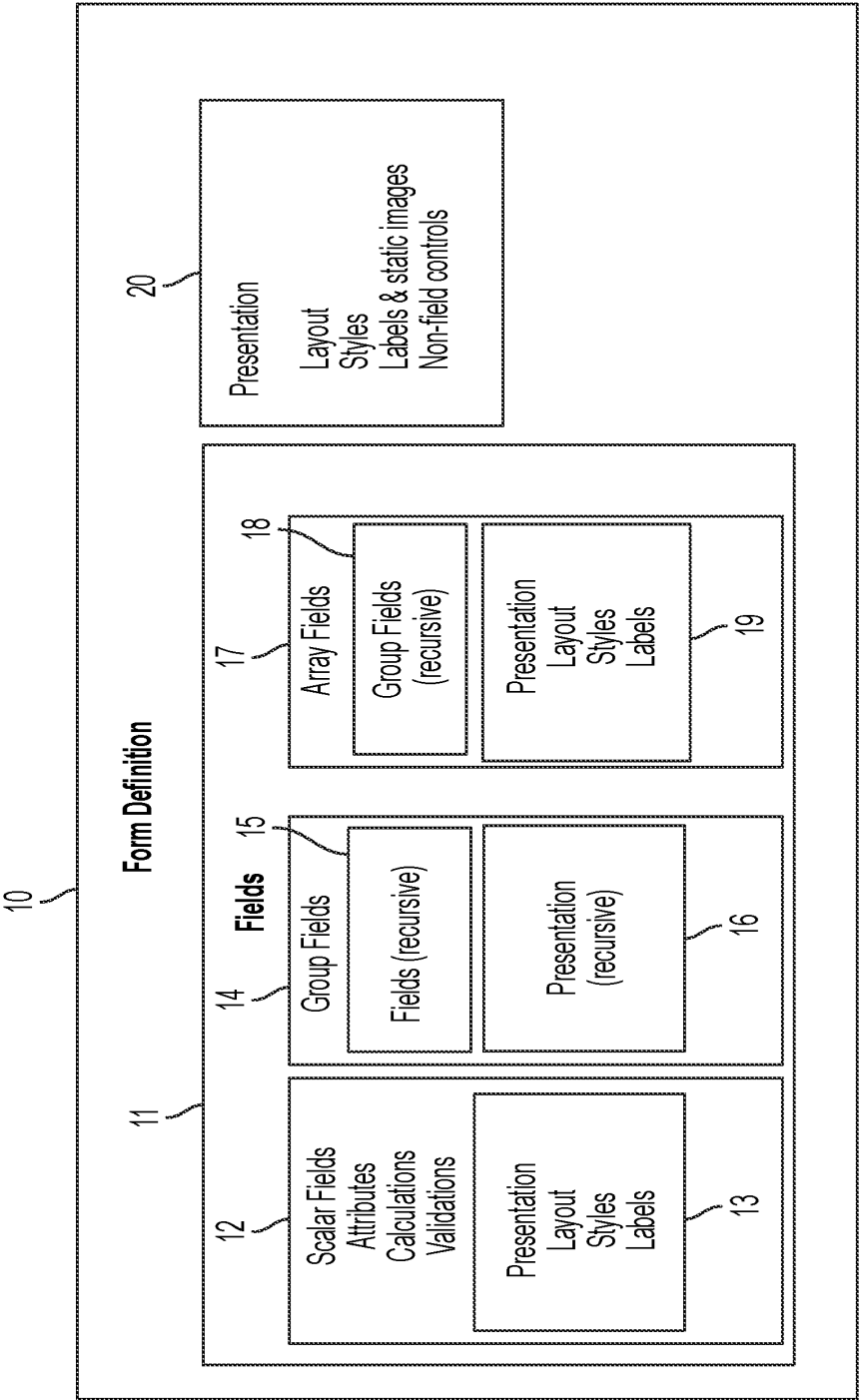


FIG. 2

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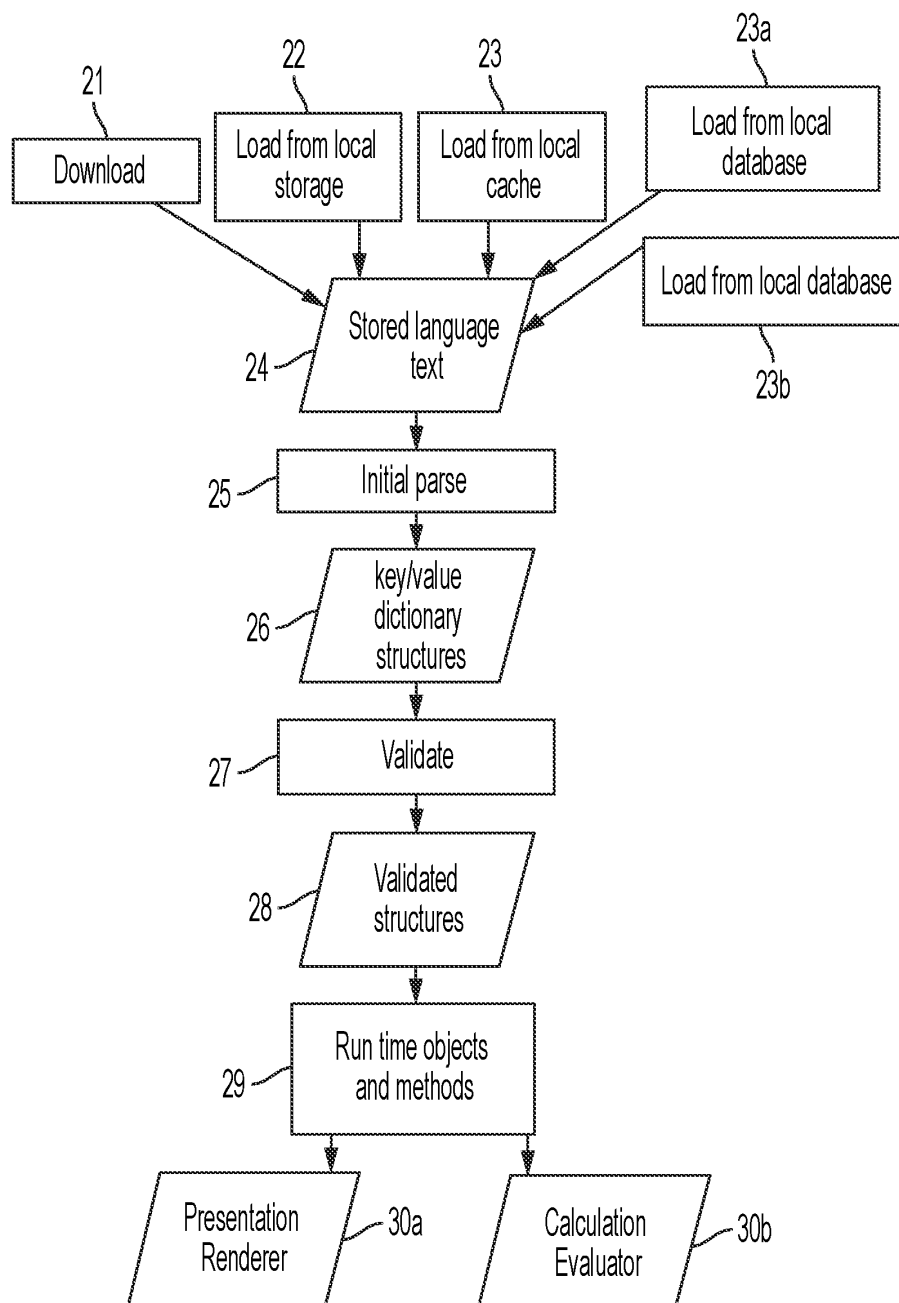


FIG. 3

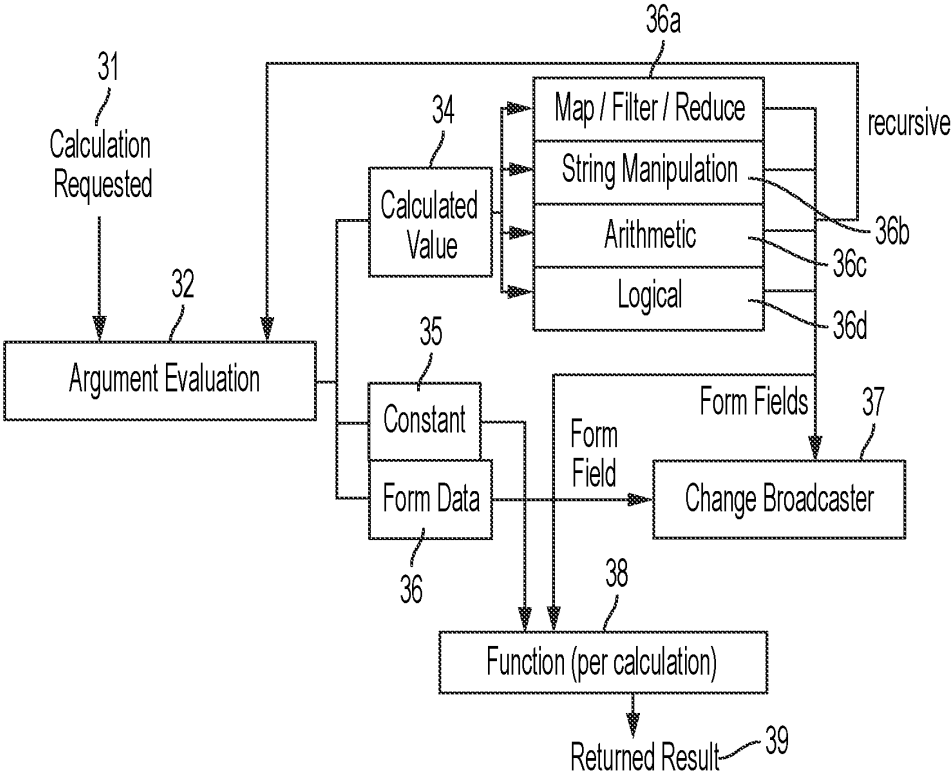


FIG. 4

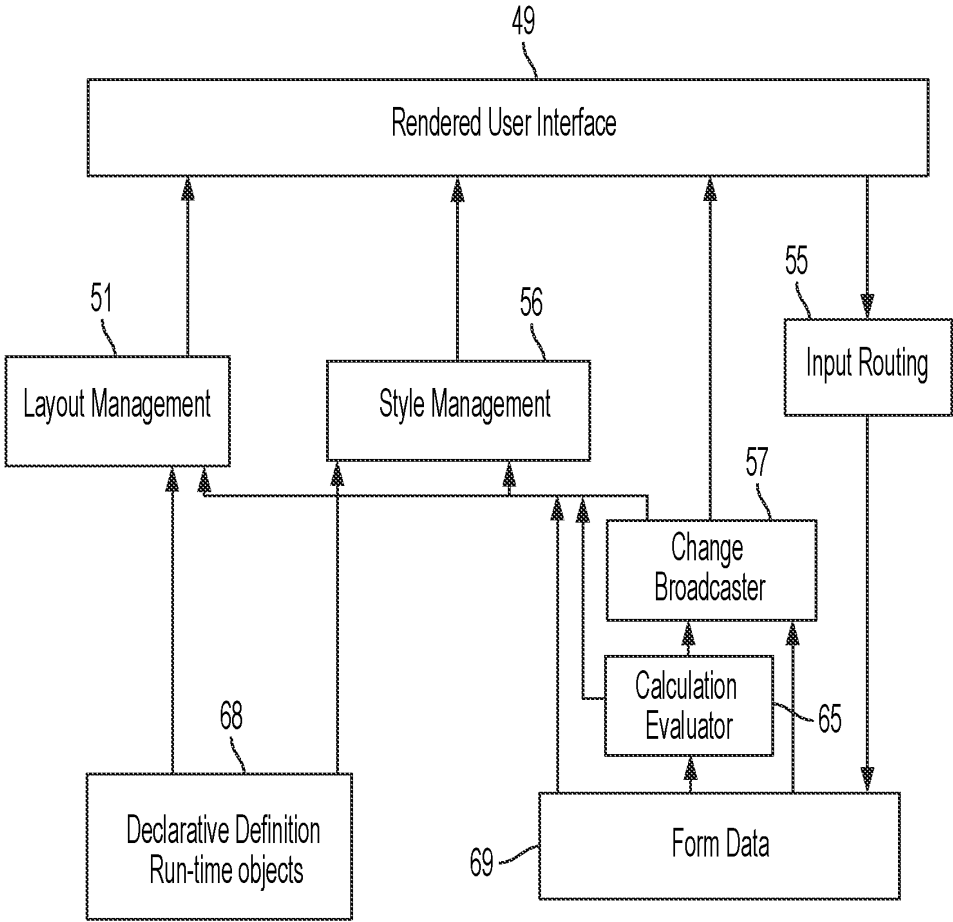


FIG. 5

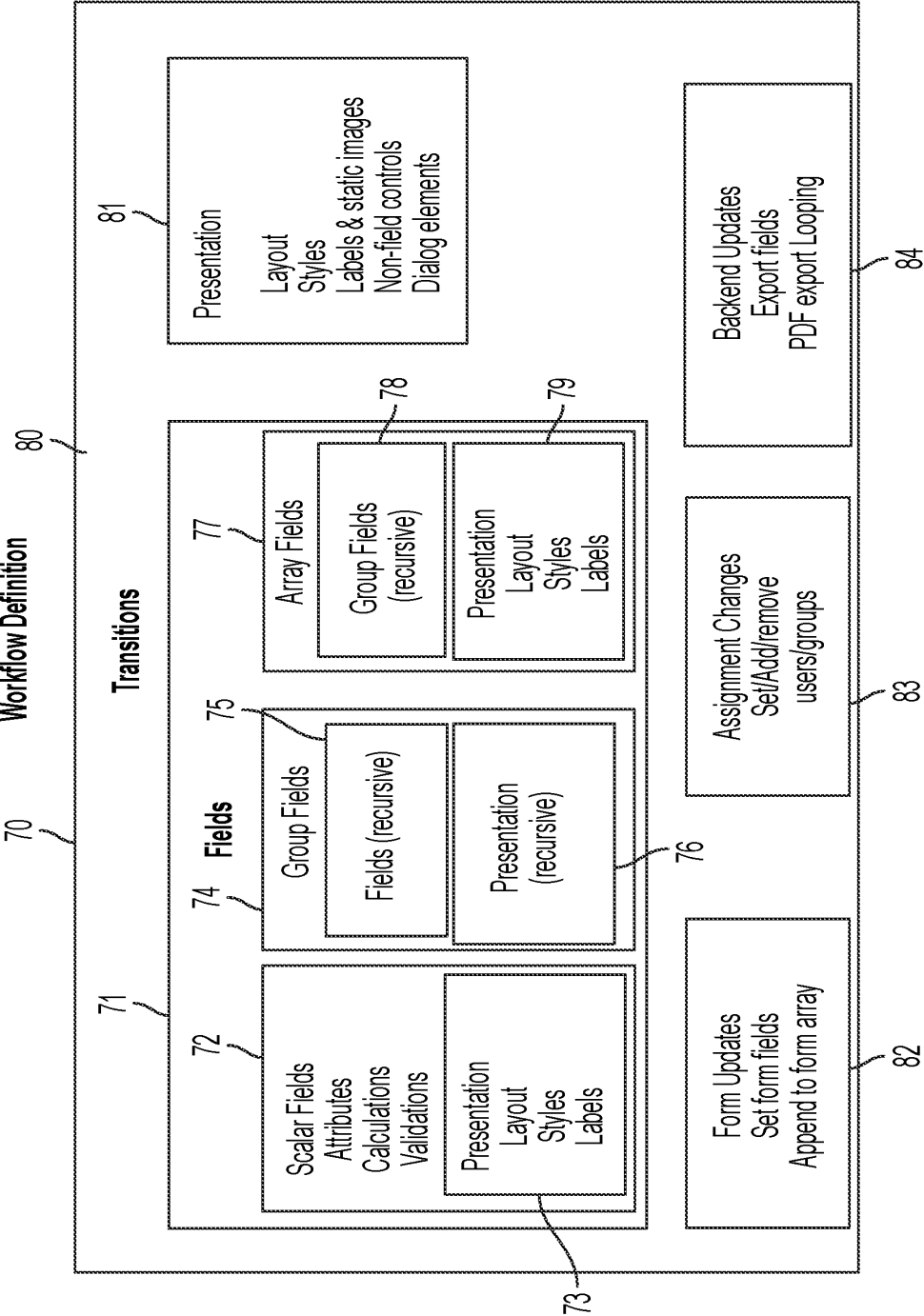


FIG. 6

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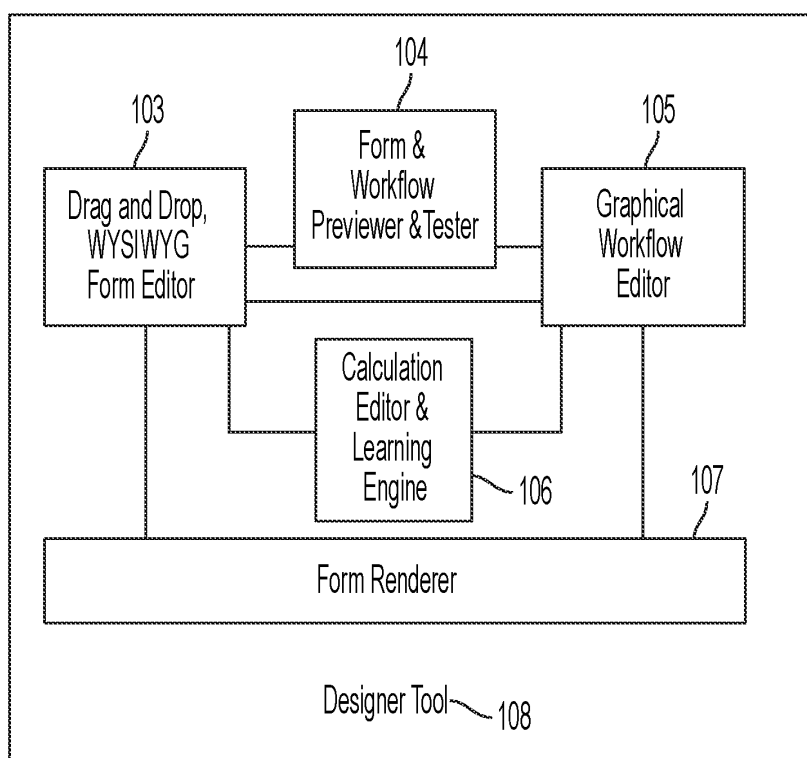


FIG. 7

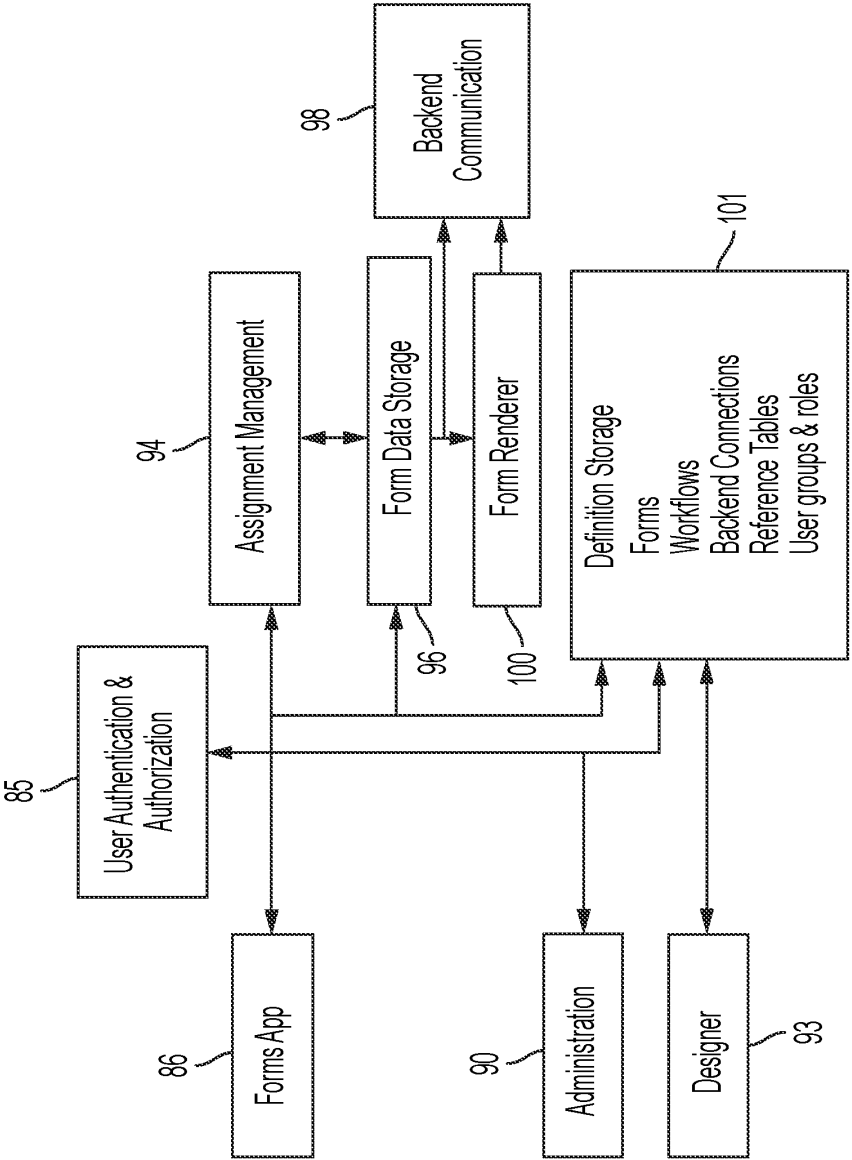


FIG. 8

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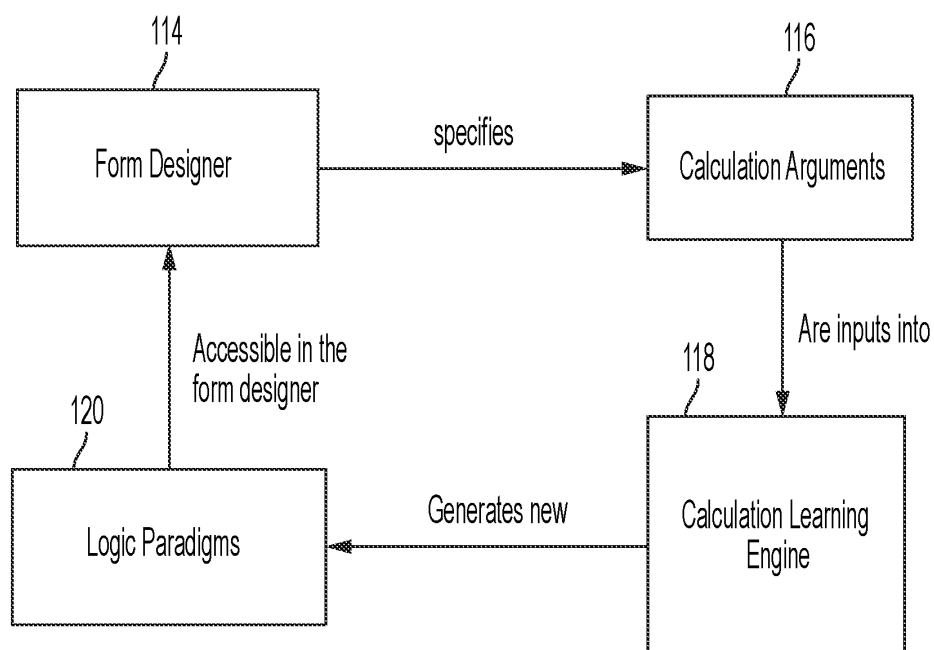


FIG. 9

FIG. 10A

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Charge Number

CONSTRUCTION DIVISION WATER LEAK REPORT

ADDRESS: _____

LEAK REPORTED BY: Date: _____ Time: 23:00

☒ Public☐ Address, Name: _____

FIRST VISITED BY: _____ Date: 8-10-18 Time: 23:50

LEAK STOPPED BY: _____ Date: 8-11-18 Time: 4:15 a.m.

LEAK REPAIRED BY: _____ Date: 8-11-18 Time: 4:15 a.m.

MAIN SHUT DOWN BY: _____ Date: 8-11-18 Time: 01:37

SERVICE REPORTED BY: _____ Date: 8-11-18 Time: 4:30 a.m.

VALVES OPERATED (NUMBER & LOCATION): _____

NUMBER OF BLOCKS AFFECTED: 3	NUMBER OF CUSTOMERS WITHOUT SERVICE: 31	RECEIVED AUG 31 '18
WERE CUSTOMERS NOTIFIED: ☐ Yes ☒ No	NUMBER OF HYDRANTS OUT OF SERVICE: 2	

MAIN LEAK DATA SIZE: ☐ 4 ☒ 6 ☐ 8 ☐ 10 ☐ 12 ☐ 14 ☐ 16 ☐ 18 ☐ 20 ☐ 24 ☐ 36 ☐ 42 ☐ 48 ☐ 54 ☐ 60 ☐ Other _____ DEPTH OF MAIN: 6' FT JOINT: ☐ FJ ☐ MJ ☐ MJ(restrained) ☒ Load ☐ Manufactured Restrained ☐ Weir ☐ Cplg. ☐ Flg ☒ Unknown ☐ Other _____	ENGINEERING
---	-------------

MATERIAL: ☐ Asbestos Cement ☐ Cast Iron lining ☒ Yes ☒ No ☐ Unknown ☐ Ductile Iron-wrapped ☐ Ductile Iron-no wrap ☐ Concrete ☐ Plastic ☐ steel ☐ Other _____	
--	--

MAIN LOCATION: 1 FT. 6 IN. A OF A ☐ Curb Line ☐ Prop. Line ☐ Bldg. Line OF _____LEAK LOCATION: 5 FT. 6 IN. E OF W ☐ Curb Line ☐ Prop. Line ☒ Bldg. Line OF _____LEAK TYPE: ☐ Transverse ☒ Longitudinal ☐ Joint ☐ Help ☐ Other _____LEAK AT: ☒ Plan ☐ Filling ☐ Valve ☐ Joint ☐ Corporation ☐ Weld ☐ Coupling ☐ Fusion ☐ Other _____LEAK CAUSED BY: ☒ Corrosion ☐ Natural Force ☐ Hits ☐ Pipeline Equip. & Operation ☐ C.I. Joint Leak☐ Material & Welds ☐ Other Outside force ☐ Other _____REPAIR METHOD: ☐ Repair Sleeves ☐ Tightened Fastener ☐ Abandoned ☐ Clamped ☐ Welded ☐ Replaced Coupling☐ Replaced Corporation ☐ Replaced Filling ☐ Replaced Valve ☒ Coupled in New Pipe☐ Replaced Gasket ☐ Other. Explain In Remarks _____EXTERIOR CONDITION OF MAIN: ☐ Good ☐ Fair ☒ Poor INTERIOR CONDITION OF MAIN: ☐ Good ☐ Fair ☒ Poor ☐ Not ExposedHAD PIPE SETTLED OR MOVED? ☐ Yes ☒ No

WAS THERE PROPERTY DAMAGE?

☒ Yes, Explain _____ parking☐ No

WAS THERE PAVING DAMAGE?

☒ Yes, Explain _____ Street Cut of sidewalk☐ No

WERE ANY UNDERGROUND STRUCTURES ADJACENT TO LEAK?

☐ Yes, Explain _____☒ No

REMARKS: Installed 5'6" piece of 6" DI pipe using

2.6" Dresser clips

DATE OF REPORT: 8-11-18 FOREMAN: _____ LEAK REPORT NUMBER: _____

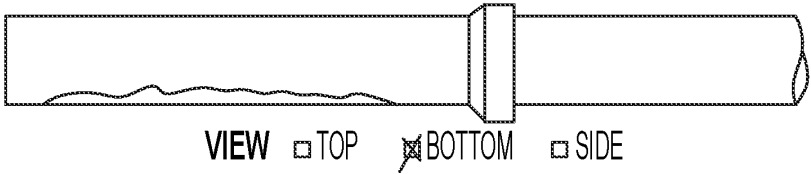
REPORT TO

DRAFTING: _____ (Confirm main size and material above) DATE LAID: _____ FORMAN PGJOB #: _____

CORROSION SECTION: _____ COMMENTS: _____

DESIGN ENGINEERING: _____ COMMENTS: _____

WATER MAIN LEAK SKETCH
(SHOW MEASUREMENT FROM START OF FAILURE TO END OF FAILURE)



WATER MAIN LEAK LOCATION DRAWING

STREET NAME: _____		WIDTH: 25'																																																														
STREET NAME: _____		WIDTH: _____																																																														
<table border="1"><tr><td></td><td></td><td></td><td>2584</td><td></td><td></td></tr><tr><td></td><td></td><td></td><td>6" water "coupling 5'6" EWBL</td><td>6" water coupling 11" EWBL</td><td></td></tr><tr><td></td><td></td><td></td><td></td><td>6" CI water main 1'6" nnd</td><td></td></tr><tr><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td><td></td><td></td></tr></table>								2584						6" water "coupling 5'6" EWBL	6" water coupling 11" EWBL						6" CI water main 1'6" nnd																																											
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									6" CI water main 1'6" nnd																																																							

FIG. 10B

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Construction Division Water Leak Report			
Address: _____			
Leak Reported By: ☐ Public ☐ Internal		Reported Date: April 24th 09:23 a.m. _____	
First Visited By: _____	Date: _____	Time: _____	
Leak Stopped By: _____	Date: _____	Time: _____	
Leak Repaired By: _____	Date: _____	Time: _____	
Main shutdown By: _____	Date: _____	Time: _____	
Service Restored By: _____	Date: _____	Time: _____	
Valves Operated (Number & Location): _____			
Number of Customers Notified: _____		Number of Customers without Service: _____	
Were Customers Notified: ☐ Yes ☐ No		Number of Hydrants Out of Service: _____	

Main Leak Data	
Size: ☐ 4 ☐ 6 ☐ 8 ☐ 10 ☐ 12 ☐ 14 ☐ 16 ☐ 18 ☐ 20 ☐ 24 ☐ 36	START

FIG. 11A

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Main Leak Data	
Size: ☐ 4 ☐ 6 ☐ 8 ☐ 10 ☐ 12 ☐ 14 ☐ 16 ☐ 18 ☐ 20 ☐ 24 ☐ 36 ☐ 42 ☐ 48 ☐ 54 ☐ 60 ☐ Other	
Depth of Main (ft): _____ Joint: ☐ PJ ☐ MJ ☐ MJ(restrained) ☐ Lead ☐ Manufactured Restrained ☐ Weld ☐ Cplg ☐ Flg ☐ Unknown ☐ Other	
Material: ☐ Asbestos Cement ☐ Cast Iron lining ☐ Cast Iron no lining ☐ Unknown Other _____ ☐ Ductile Iron-wrapped ☐ Ductile Iron-no wrap ☐ Concrete ☐ Plastic ☐ Steel ☒ Other	
Main Location	
FT: _____ IN: _____ OF _____ ☐ Curb Line ☐ Prop Line ☐ Bldg Line	
OF: _____	
Leak Type: ☐ Transverse ☐ Longitudinal ☐ Joint ☐ Hole ☐ Other	
Leak At: ☐ Pipe ☐ Fitting ☐ Valve ☐ Joint ☐ Corporation ☐ Weld	

START

FIG. 11B

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Leak Caused By: ☐ Corrosion ☐ Natural Force ☐ Hits ☐ Pipeline Equip & Operation ☐ CI Joint Leak ☐ Material & Welds ☐ Other Outside Force ☐ Other	
Repair Method: ☐ Repair Sleeve ☐ Tightened Fastener ☐ Abandoned ☐ Clamped ☐ Welded ☐ Replaced Coupling ☐ Replaced Corporation ☐ Replaced Fitting ☐ Replaced Valve ☐ Coupled in New Pipe ☐ Replaced Gasket ☐ Other	
Exterior Condition of Main ☐ Good ☐ Fair ☐ Poor	Interior Condition of Main ☐ Good ☐ Fair ☐ Poor ☐ Not Exposed
Had Pipe Settled or Moved? ☐ Yes ☐ No	
Was there Property Damage? ☐ Yes ☐ No	
Was there Paving Damage? ☐ Yes ☐ No	
Any Underground Structures Adjacent to Leak? ☐ Yes ☐ No	
Remarks: _____	

START

FIG. 11C

Foreman Approval

Status

☐ Approved

Name

Virginia Demo

Signature

PRESS TO SIGN

Date

Comments

Drafting Approval

Status

☐ Approved

Name

Signature

PRESS TO SIGN

Date

Comments

Corrosion Section Review

Status

☐ Approved

Name

Signature

PRESS TO SIGN

Date

Comments

Design Engineering Review

Status

☐ Approved

Name

Signature

PRESS TO SIGN

Date

Comments

START

FIG. 11E