

Fig.1

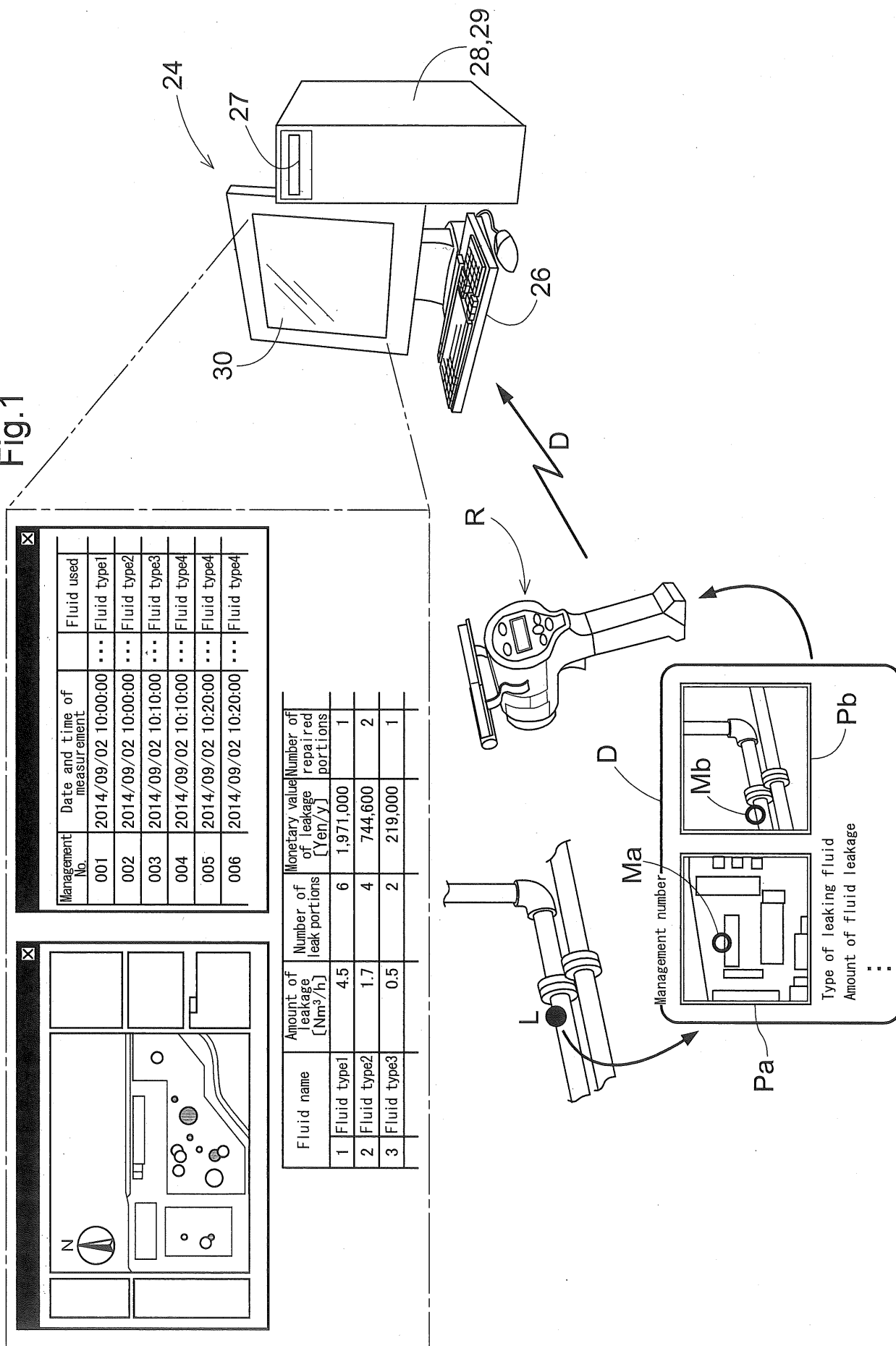


Fig. 2

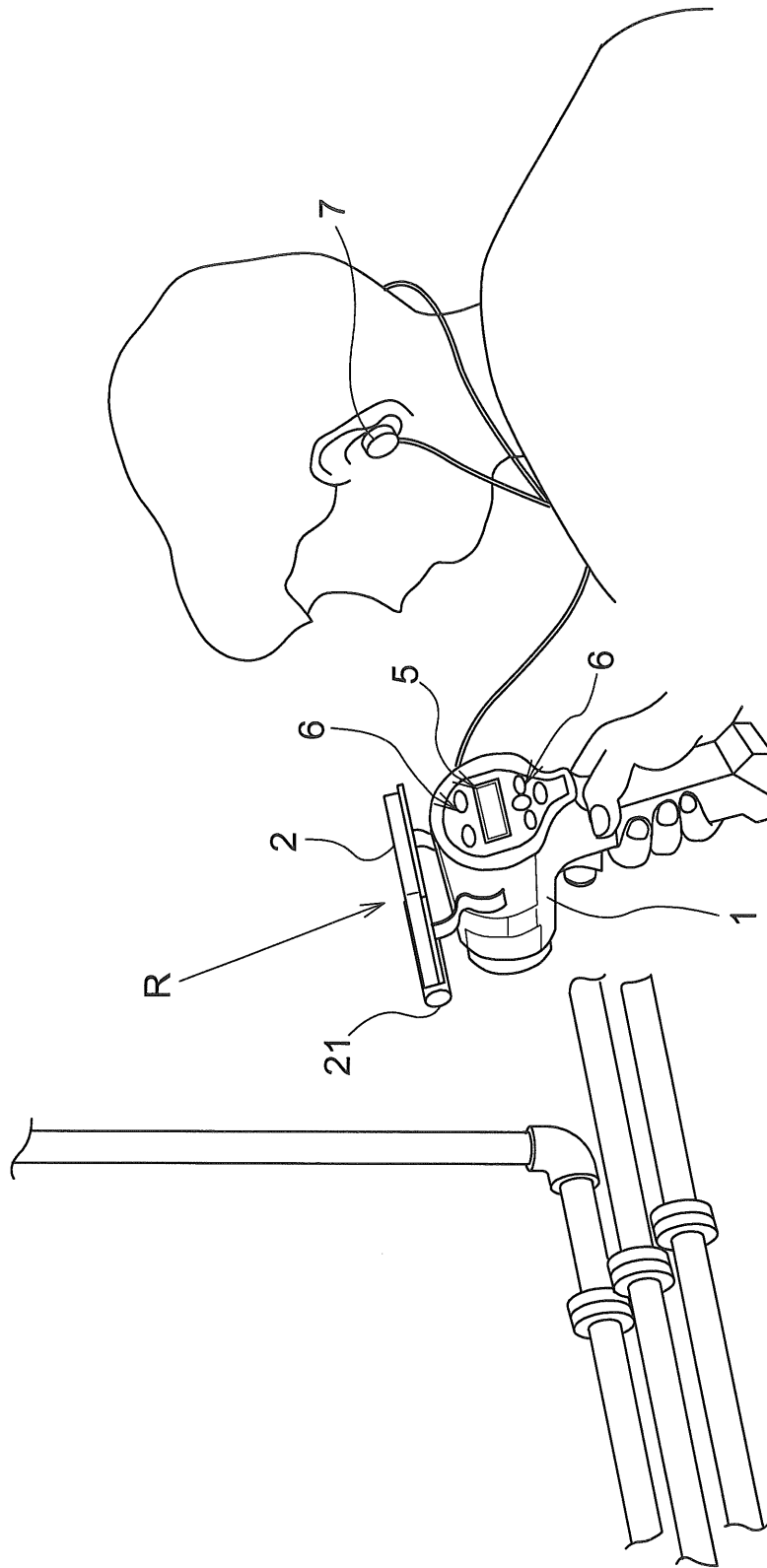


Fig.3

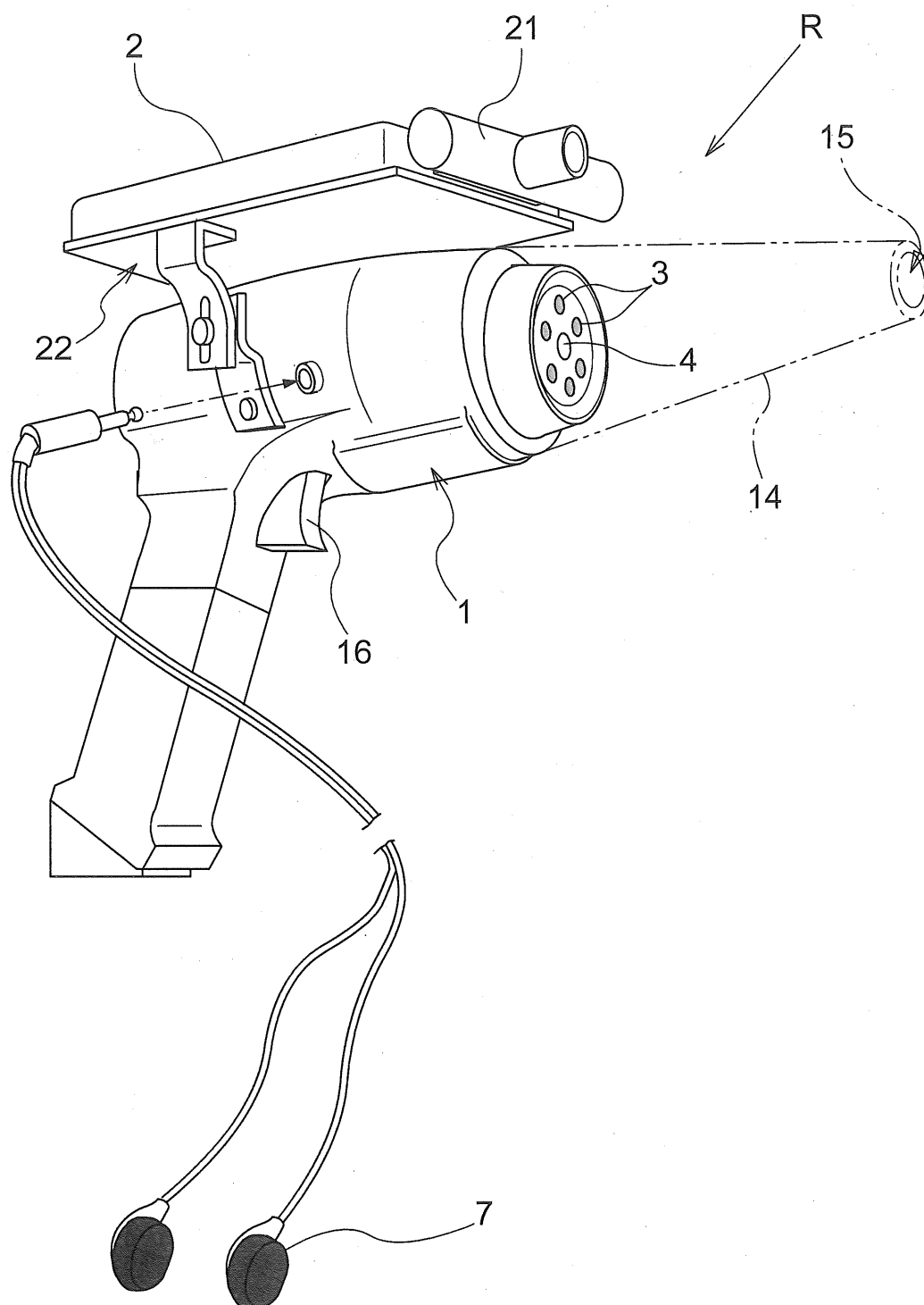


Fig.4

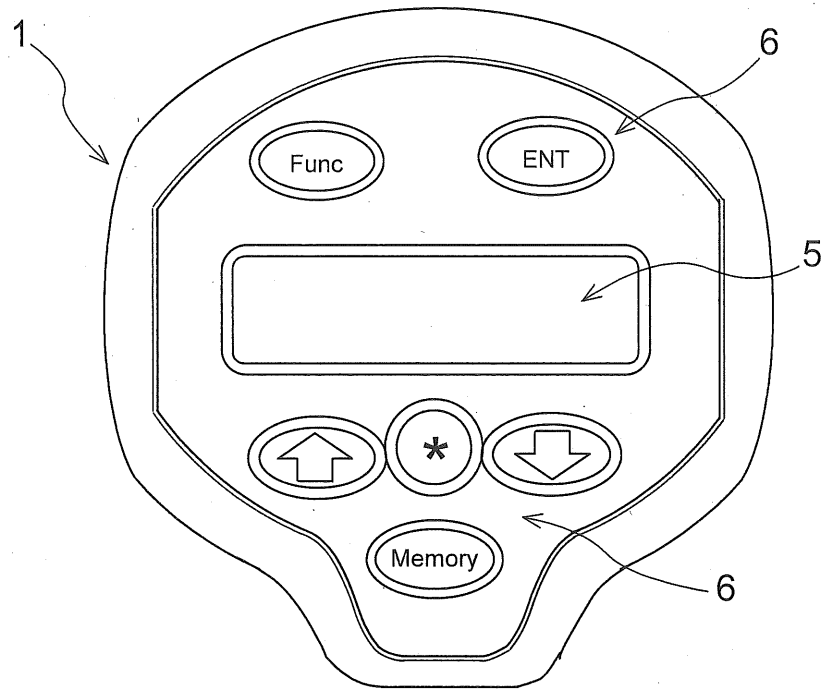


Fig.5

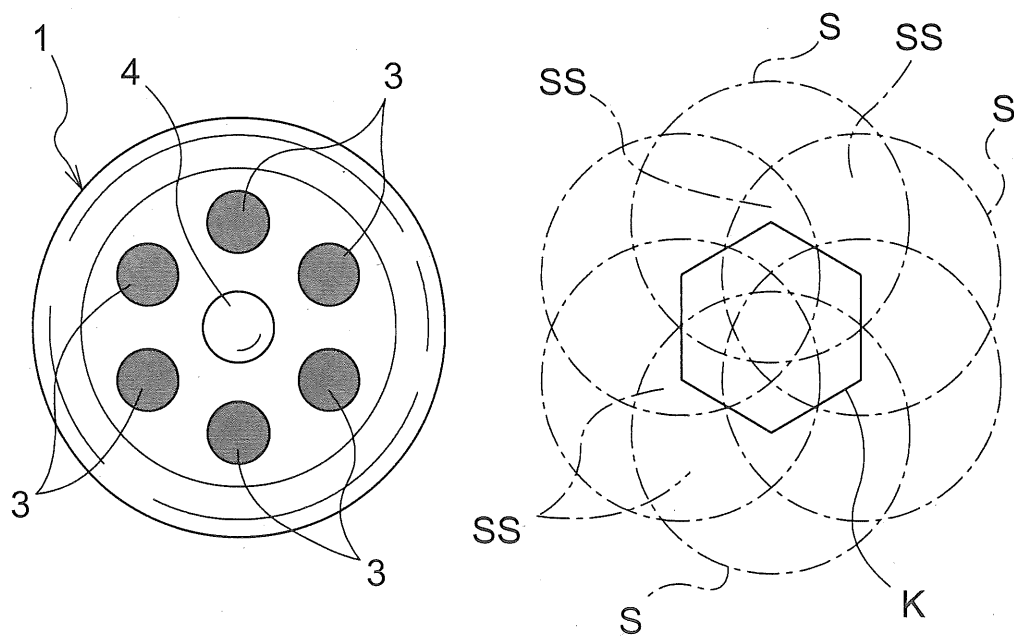


Fig.6

Main Window

Management No. 71

Amount of leakage 100 dB

Set sensitivity 100

Detected value 6 NI/min

Date of detection 2014/7/14

Time of detection 2014/7/14

Staff name ○○○○

Repaired ☐

Data

Ga

Fig.7

Main Window

Management No. 71

Area

Floor

Target member

Remarks field

Gc

Fig.8

Leakage Calculation

Management No. 71

Amount of leakage l/min

Calculating conditions

Distance 100 cm

Type

Direction

Fluid

Gb

6/17

Fig.9

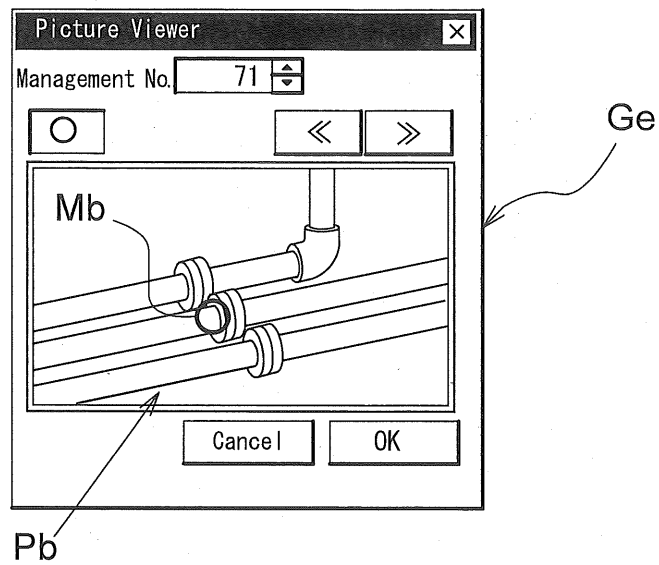


Fig.10

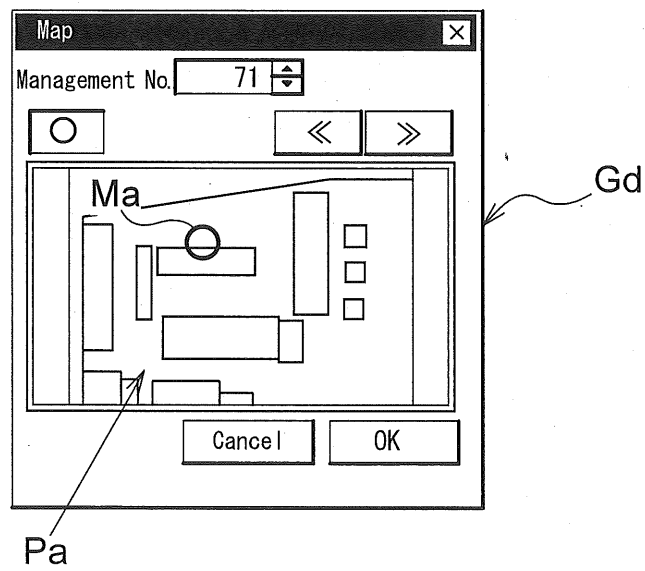


Fig.11

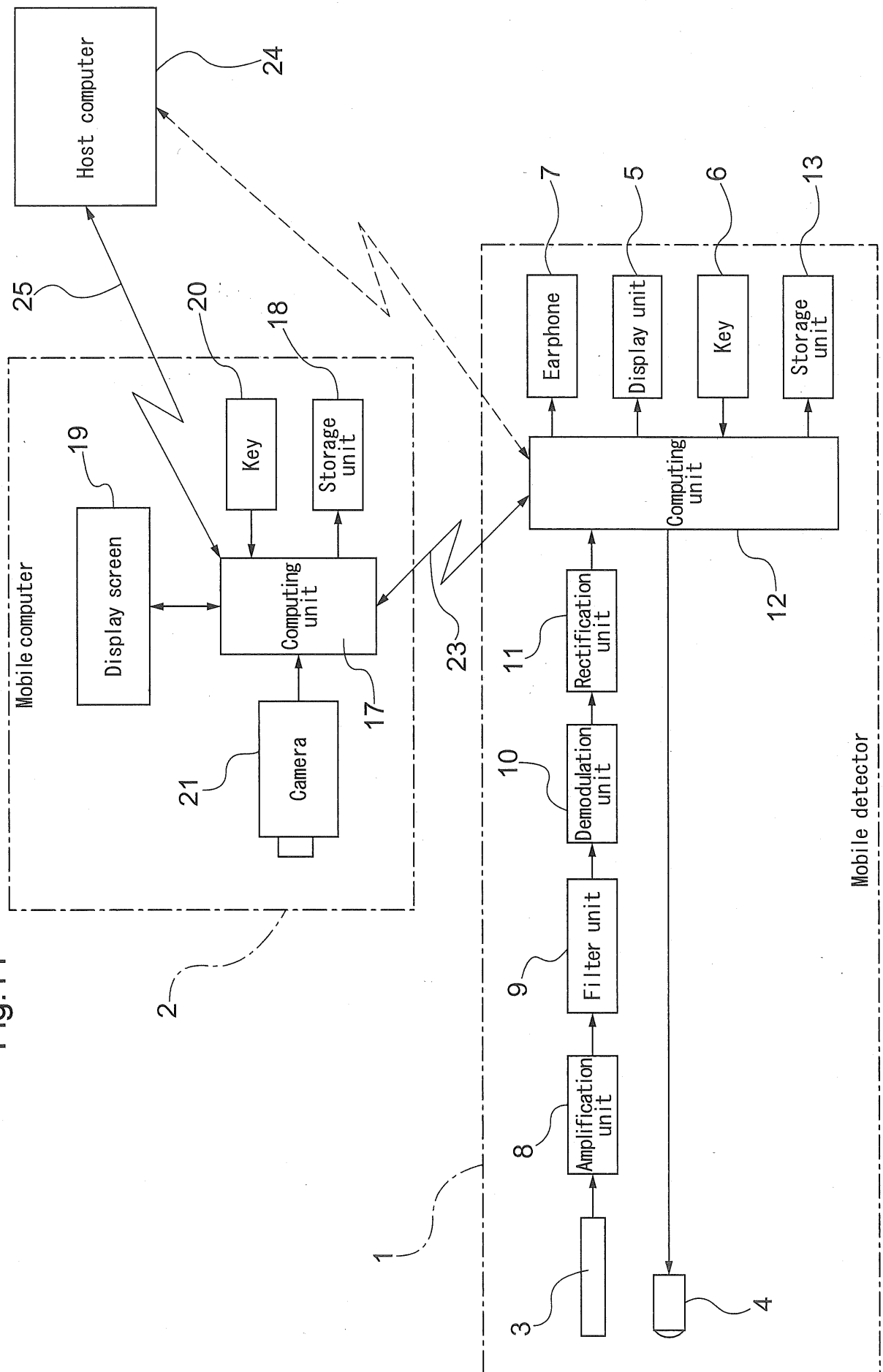


Fig.12

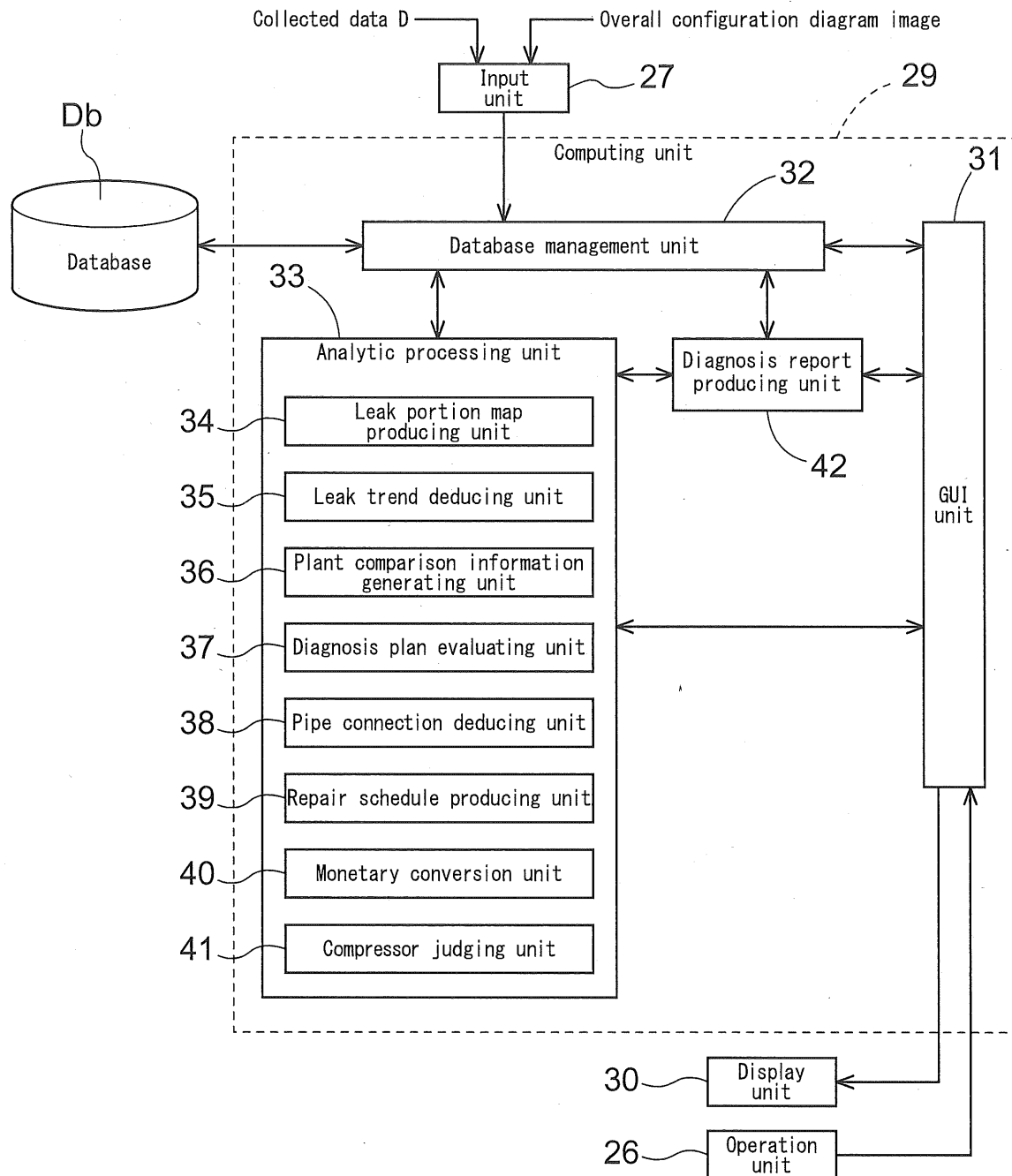


Fig.13

Client name

Filter

x x x x

Area

Floor

▼

Diagnosis staff

▼

GLC serial No.	Management No.	Date and time of measurement	Diagnosis staff ID	Area	Floor	Target member	Target site		Fluid used	Operating time
000000	001	2014/09/02 10:00:00	Diagnosis staff 1		1F	Flange	Gasket		Fluid type1	8760
000000	002	2014/09/02 10:00:00	Diagnosis staff 1	Area1	1F	Valve	Gland		Fluid type2	8760
000000	003	2014/09/02 10:00:00	Diagnosis staff 1	Area1	1F	Valve	Gland		Fluid type3	8760
000000	004	2014/09/02 10:10:00	Diagnosis staff 1	Area1	2F	Valve	Gland		Fluid type4	8760
000000	005	2014/09/02 10:10:00	Diagnosis staff 1	Area1	2F	Pipe	Union		Fluid type4	8760
000000	006	2014/09/02 10:20:00	Diagnosis staff 1	Area1	2F	Reducing valve	Main body		Fluid type4	8760
000000	007	2014/09/02 10:30:00	Diagnosis staff 1	Area2	3F	Filter	Main body		Fluid type3	8760
000000	008	2014/09/02 10:30:00	Diagnosis staff 1	Area2	3F	Valve	Blow		Fluid type4	8760
000000	009	2014/09/02 10:40:00	Diagnosis staff 1	Area2	3F	Valve	Blow		Fluid type4	8760
000000	010	2014/09/02 10:40:00	Diagnosis staff 1	Area2	3F	Reducing valve	Main body		Fluid type3	8760
	∴	∴	∴	∴	∴	∴			∴	∴
000000	030	2014/09/03 10:00:00	Diagnosis staff 1	Area4	2F	Valve	Blow		Fluid type4	8760
000000	031	2014/09/03 10:00:00	Diagnosis staff 1	Area4	1F	Pipe	Threaded joint portion		Fluid type4	8760
000000	032	2014/09/03 10:10:00	Diagnosis staff 1	Area4	1F	Reducing valve	Main body		Fluid type1	8760
000000	033	2014/09/03 10:20:00	Diagnosis staff 1	Area5	1F	Valve	Blow		Fluid type1	8760
000000	034	2014/09/03 10:30:00	Diagnosis staff 1	Area5	1F	Pipe	Threaded joint portion		Fluid type1	8760
000000	035	2014/09/03 10:30:00	Diagnosis staff 1	Area5	1F	Reducing valve	Main body		Fluid type1	8760
000000	036	2014/09/03 10:40:00	Diagnosis staff 1	Area5	1F	Reducing valve	Main body		Fluid type1	8760

10/17

Fig.14A

SNo-Management No. 000000-001-2014/09/02 10:00:00

Data Arrangement plan Information

GLC measured value

Measured sound pressure	72 db	Distance	0.1 m
Measurement sensitivity	25	Type	Union
Date and time of measurement	2014/09/02 00:	Direction	90°
Leakage amount	0.6 Nm ³ /h	Fluid	Fluid type1

Area Area1 Time 3760 h Fluid used Fluid type1 Unit price 50.0

Floor 2F Target member Flange

Measurer Diagnosis staff1 Target site Gasket

☐ Lock operating time and unit price

☐ Repaired

Photograph (Close up) x Select photograph

Photograph (Long shot) x Select photograph

Pd1(Pd)

Pb

Pb

Close

Fig.14B

SNo-Management No. 000000-001-2014/09/02 10:00:00

Data Arrangement plan Information

Select map Overall map x

Pd2(Pd)

Ma

Pa

Close

11/17

Fig.14C

Pd3(Pd) →

×

SNo-Management No. 000000-001-2014/09/02 10:00:00 ▾ << <<

Data

Arrangement plan

Information

Note

▲ ▼

Diagnosis staff remarks

▲ ▼

Customized item

Close

Fig.15A

12/17

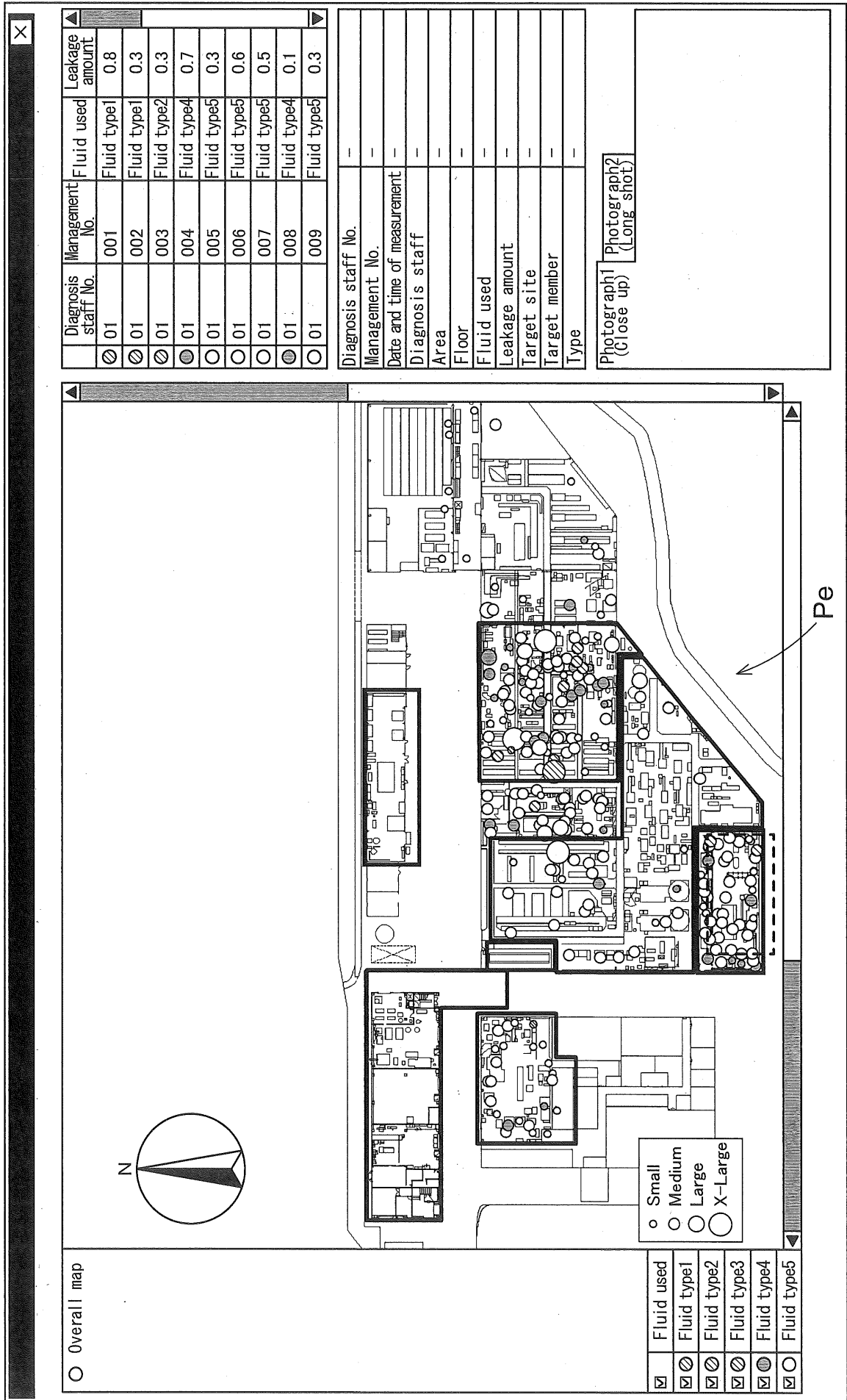


Fig.15B

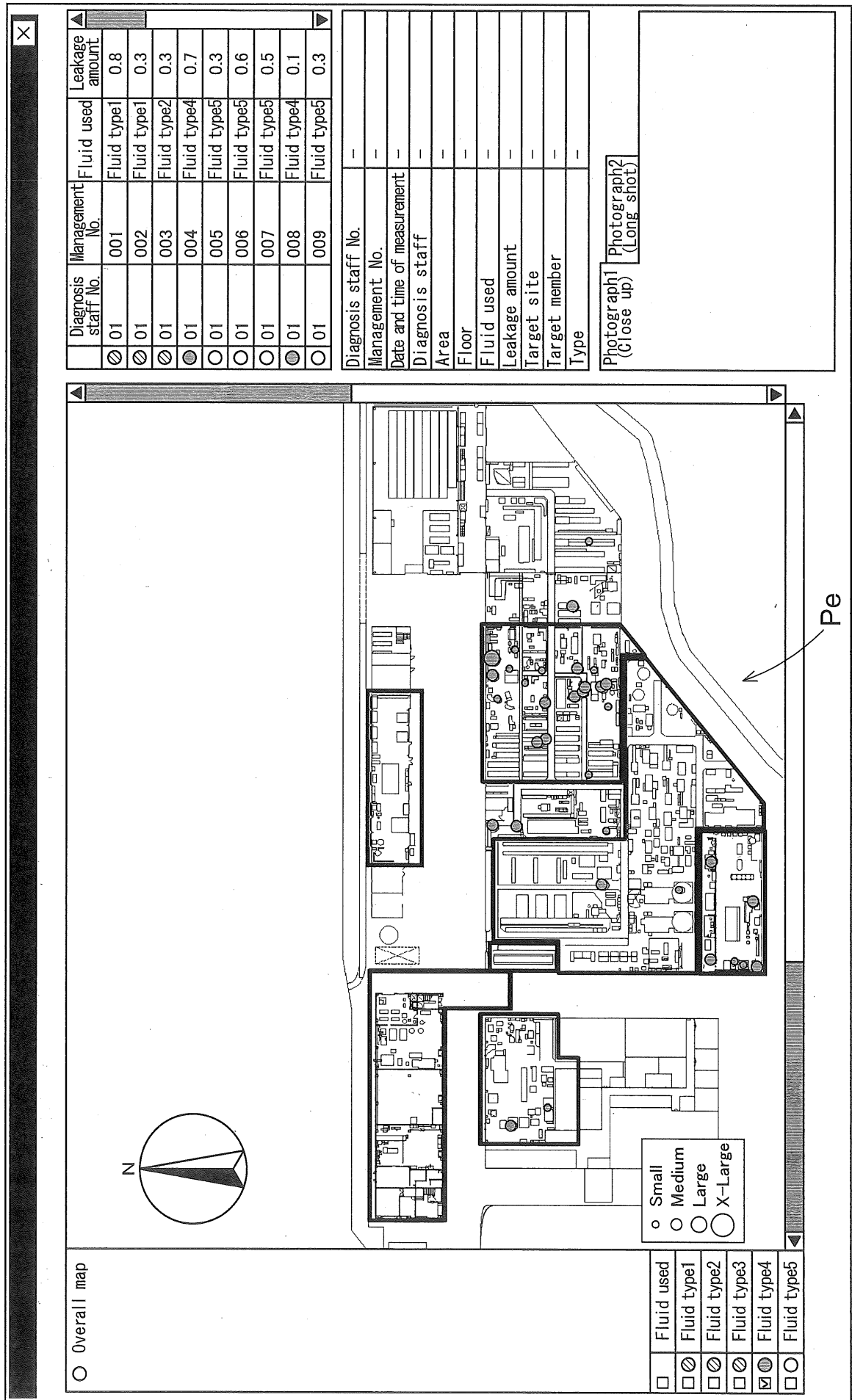


Fig.15C

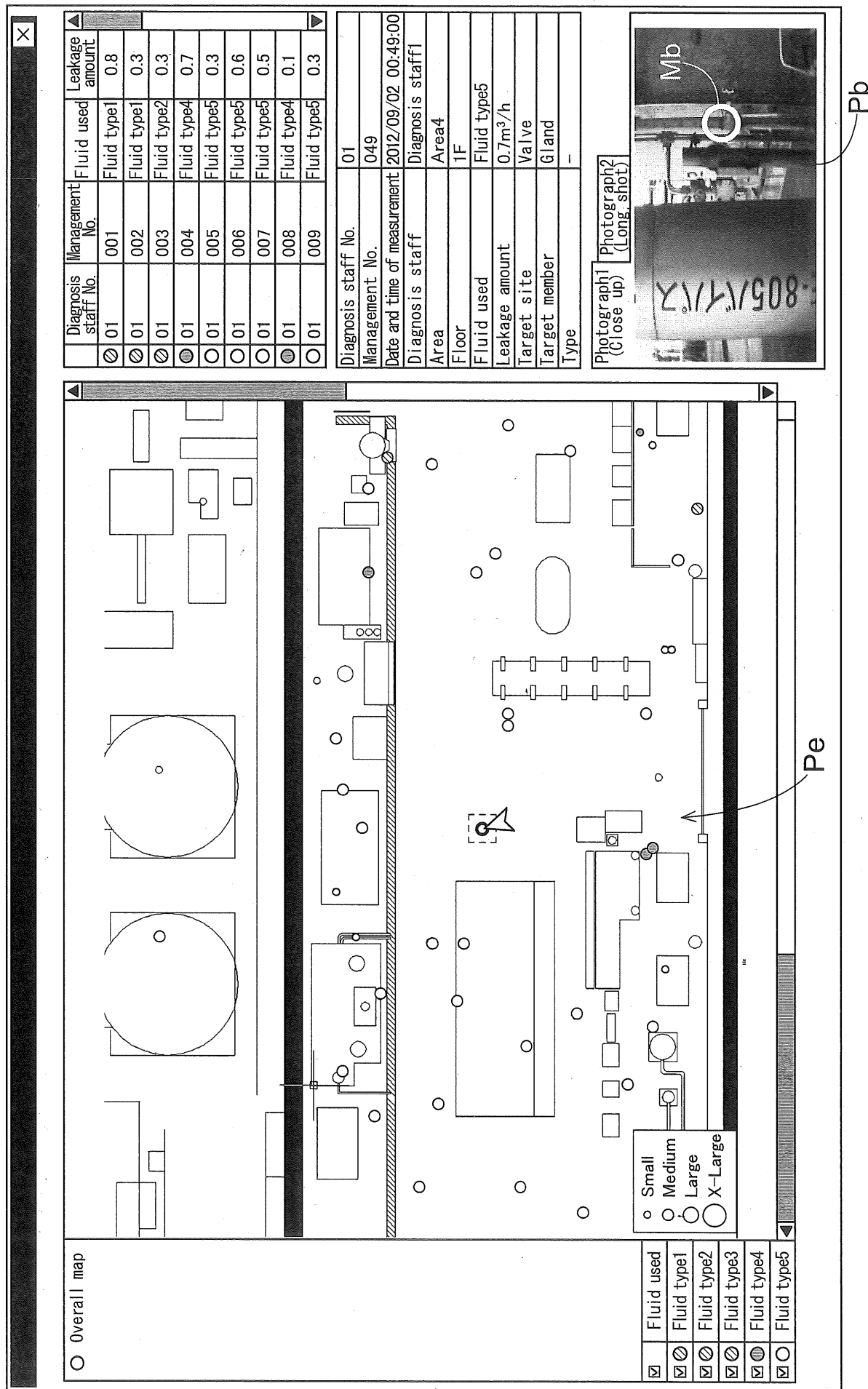
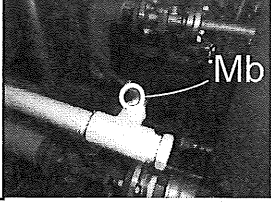
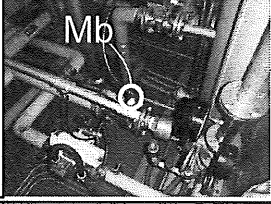
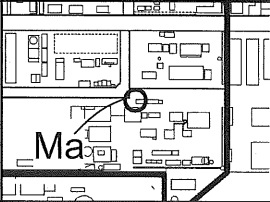
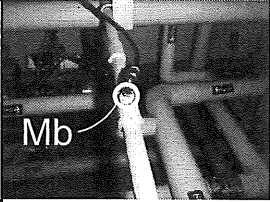
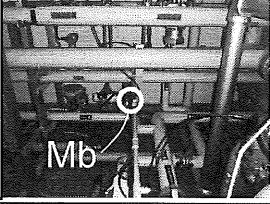
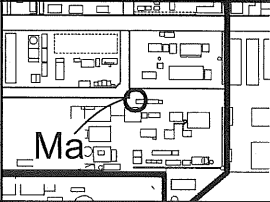
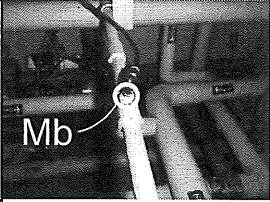
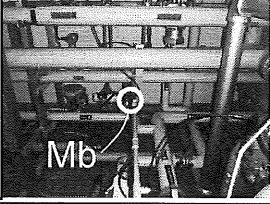
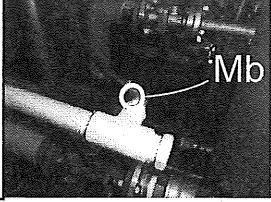
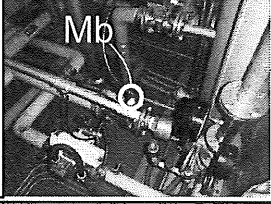
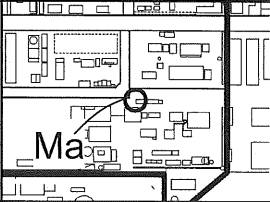
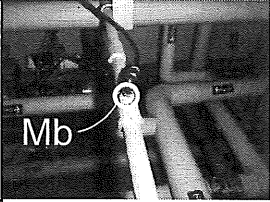
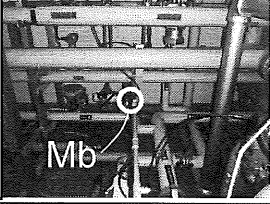
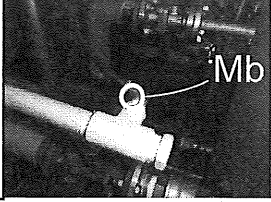
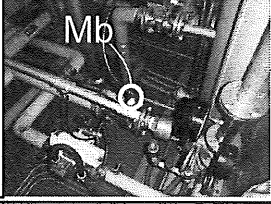


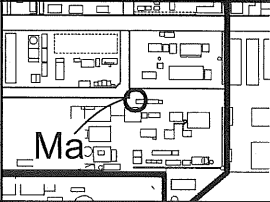
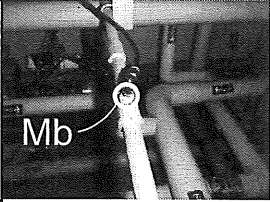
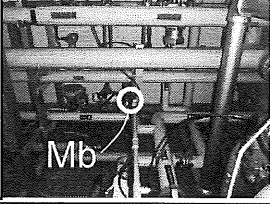
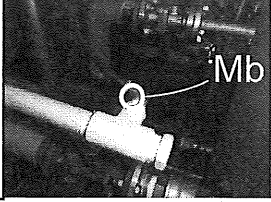
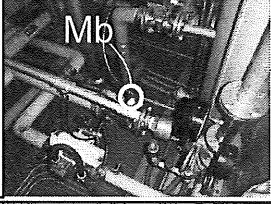
Fig.16

S

Sheet No.	Amount of leakage	Date of diagnosis	Diagnosis staff								
01-001	0.8	2014/09/02	Diagnosis staff1								
<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 15%;">Area</td> <td>Area1</td> </tr> <tr> <td>Target member</td> <td>Flange</td> </tr> <tr> <td>Target site</td> <td>Gasket</td> </tr> <tr> <td colspan="2">Detailed information North side Branch valve Upstream side Flange</td> </tr> </table>				Area	Area1	Target member	Flange	Target site	Gasket	Detailed information North side Branch valve Upstream side Flange	
Area	Area1										
Target member	Flange										
Target site	Gasket										
Detailed information North side Branch valve Upstream side Flange											
Details of leak portion		 Pa									
											
											
Arrangement plan		 Pa									
											
											
Repairer		Date of repair									

Sheet No.	Amount of leakage	Date of diagnosis	Diagnosis staff								
01-002	0.3	2014/09/02	Diagnosis staff1								
<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 15%;">Area</td> <td>Area1</td> </tr> <tr> <td>Target member</td> <td>Valve</td> </tr> <tr> <td>Target site</td> <td>Gland</td> </tr> <tr> <td colspan="2">Detailed information North side Branch valve</td> </tr> </table>				Area	Area1	Target member	Valve	Target site	Gland	Detailed information North side Branch valve	
Area	Area1										
Target member	Valve										
Target site	Gland										
Detailed information North side Branch valve											
Details of leak portion		 Pa									
											
											
Arrangement plan		 Pa									
											
											
Repairer		Date of repair									

Sheet No.	Amount of leakage	Date of diagnosis	Diagnosis staff								
01-003	0.3	2014/09/02	Diagnosis staff1								
<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 15%;">Area</td> <td>Area1</td> </tr> <tr> <td>Target member</td> <td>Valve</td> </tr> <tr> <td>Target site</td> <td>Gland</td> </tr> <tr> <td colspan="2">Detailed information North side Main line Valve</td> </tr> </table>				Area	Area1	Target member	Valve	Target site	Gland	Detailed information North side Main line Valve	
Area	Area1										
Target member	Valve										
Target site	Gland										
Detailed information North side Main line Valve											
Details of leak portion		 Pa									
											
											
Arrangement plan		 Pa									
											
											
Repairer		Date of repair									

Sheet No.	Amount of leakage	Date of diagnosis	Diagnosis staff								
01-004	0.7	2014/09/02	Diagnosis staff1								
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Area	Area1										
Target member	Valve										
Target site	Gland										
Detailed information West side Nitrogen header Branch valve											
Details of leak portion		 Pa									
											
											
Arrangement plan		 Pa									
											
											
Repairer		Date of repair									

16/17

Fig.17

M

Fluid name		Amount of leakage [Nm ³ /h]	Number of leak portions	Monetary value of leakage [Yen/y]	Number of repaired portions	Monetary value of repair [Yen/y]	Repair completion rate [%]
1	Fluid type1	4.5	6	1,971,000	1	350,400	16.7%
2	Fluid type2	1.7	4	744,600	2	481,800	50.0%
3	Fluid type3	0.5	2	219,000	1	131,400	50.0%
4	Fluid type4	13.5	36	5,913,000	14	2,277,600	38.9%
5	Fluid type5	88.2	196	38,631,600	65	12,307,800	33.2%
Total			244	47,479,200	83	15,549,000	34.0%

17/17

Fig.18

Monetary conversion table

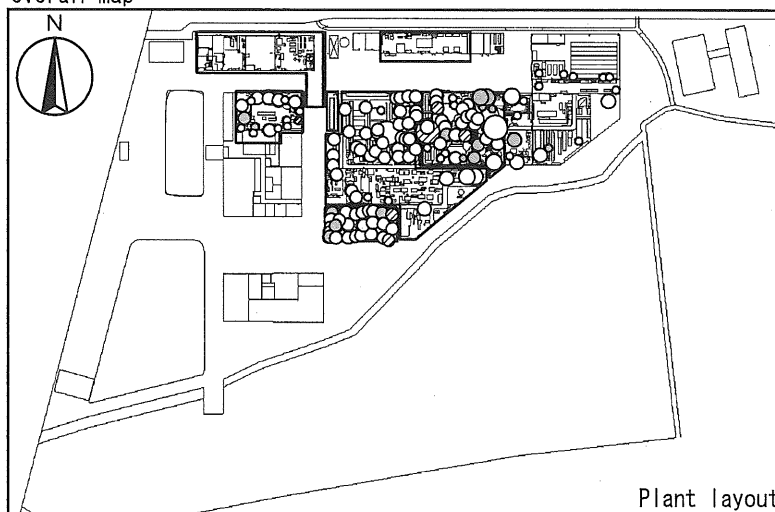
Fluid name	Amount of leakage [Nm ³ /h]	Number of leak portions	Monetary value of leakage [Yen/y]	Number of repaired portions	Monetary value of repair [Yen/y]	Repair completion rate [%]
1 Fluid type1	4.5	6	1,971,000	1	350,400	16.7%
2 Fluid type2	1.7	4	744,600	2	481,800	50.0%
⋮	⋮	⋮	⋮	⋮	⋮	⋮
Total		244	47,479,200	83	15,549,000	34.0%

M

List of leak portions

Sheet No.	Area	Fluid name	Diagnosis point	...	Monetary value of leakage [Yen/y]	Repaired
01-001	Area1	Fluid type1	North side Branch valve Upstream side Flange	...	350,400	●
01-002	Area1	Fluid type1	North side Branch valve	...	131,400	
01-003	Area1	Fluid type2	North side Main line Valve	...	131,400	
⋮	⋮	⋮	⋮		⋮	⋮

Overall map



Pe

Repair schedule

Sheet No.	Amount of leakage	Date of diagnosis	Diagnosis staff
01-001	0.8	2014/09/02	Diagnosis staff1
Area	Area1		
Target member	Flange		
Target site	Gasket		
Detailed information	North side Branch valve Upstream side Flange		

S

Details of leak portion

