

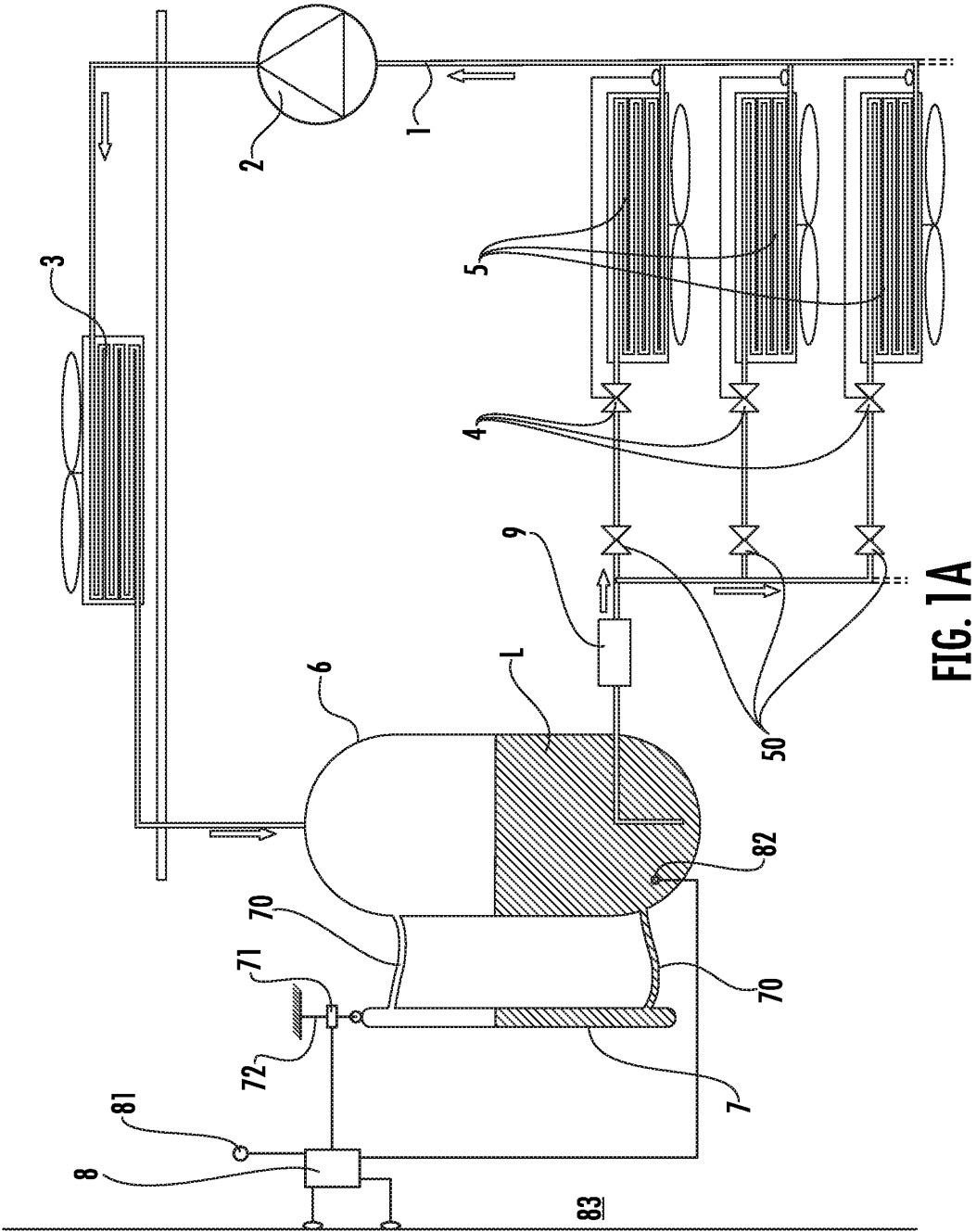


FIG. 1A

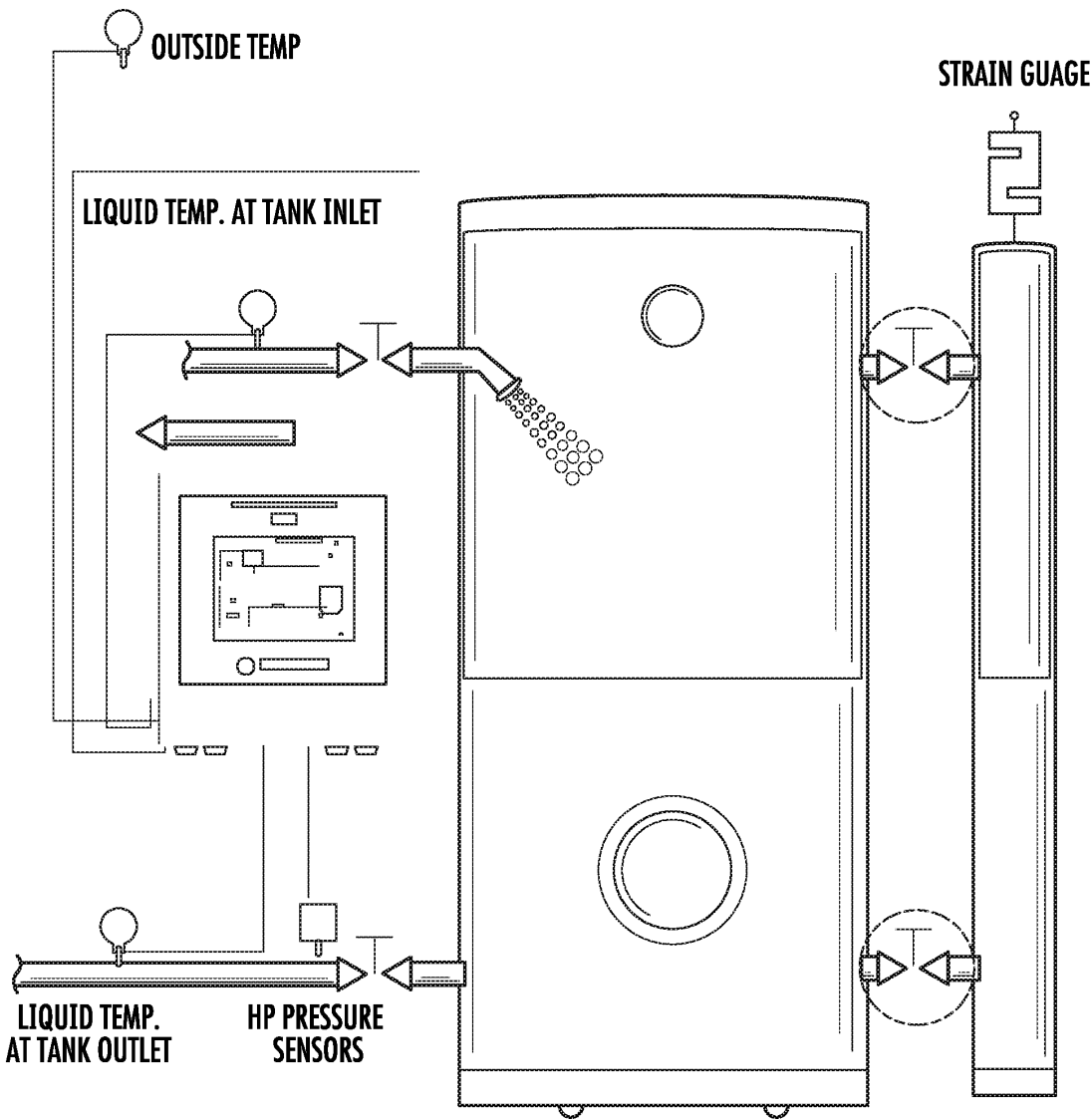


FIG. 1B

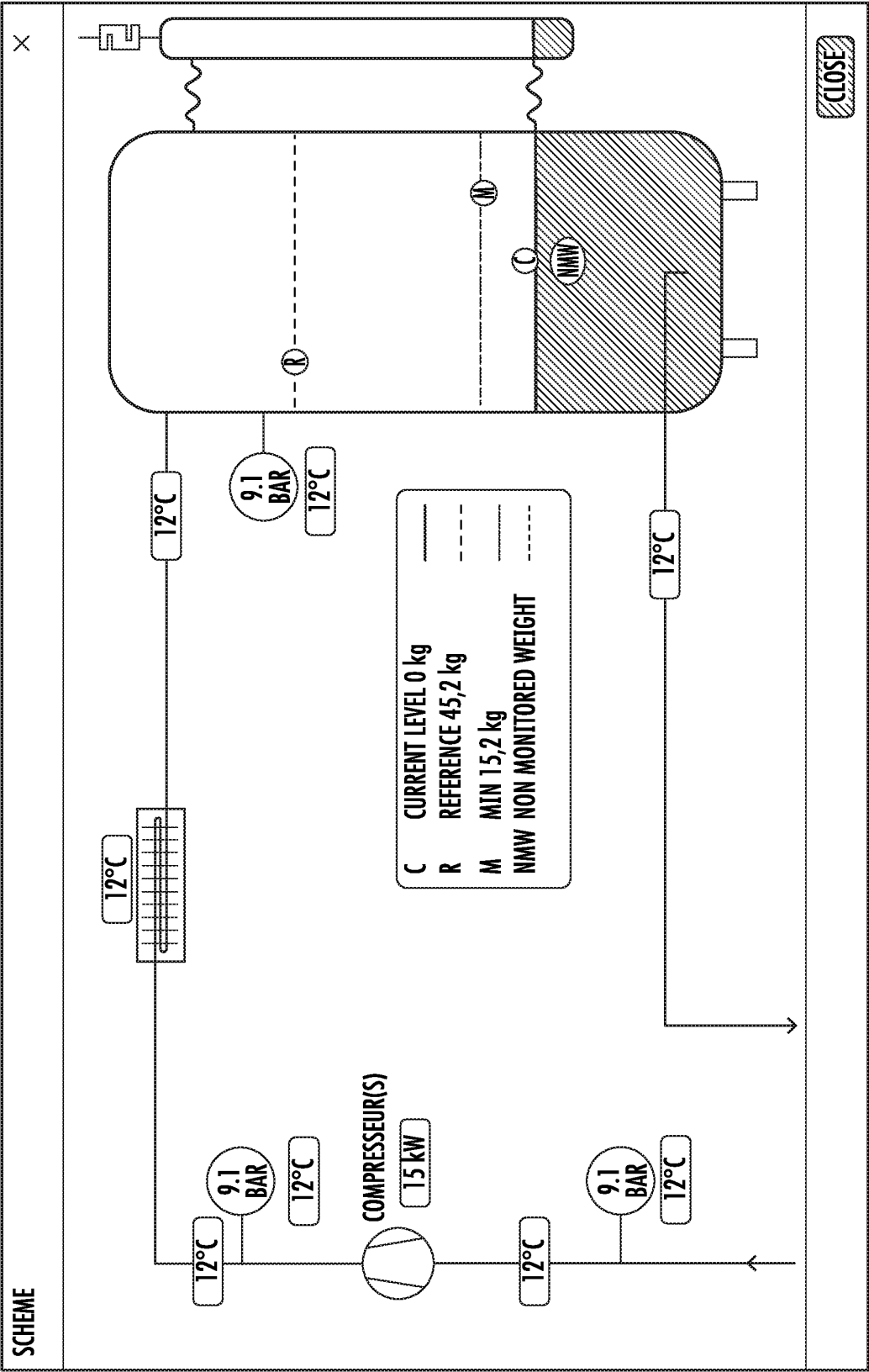


FIG. 1C

SET

ALARM	CONFIGURATION	MAP MEASURE	ENERGY MODULE	NETWORK
15	FLOATING HP	50		
	BP ADAPTIVE			
CONSIGNES LP				
-50	-38	10		
PISTON	▼			
AIR	▼			
114 kW	!			
				CANCEL CREATE

FIG. 2A

SET

×

<

>

>

CANCEL

CREATE

ALARM

CONFIGURATION

MAP MEASURE

ENERGY MODULE

NETWORK

HP PRESSURE TRANSMITTER

RANGE (BAR)

-1

30

-1

200

200

BAR

RESET TO ZERO

TEMPERATURE SENSORS AND COLUMN SYSTEM

FIG. 2B

SET

ALARM

CONFIGURATION

MAP MEASURE

ENERGY MODULE

NETWORK

TEMPERATURE SENSORS AND COLUMN

-0.95 C

-0.95C (auto) + 0C (manual)

-3.02 C

-3.02C (auto) + 0C (manual)

-2.54 C

-2.54C (auto) + 0C (manual)

Map Measure

Cuivre 1 5/8

9

CANCEL

CREATE

FIG. 2C

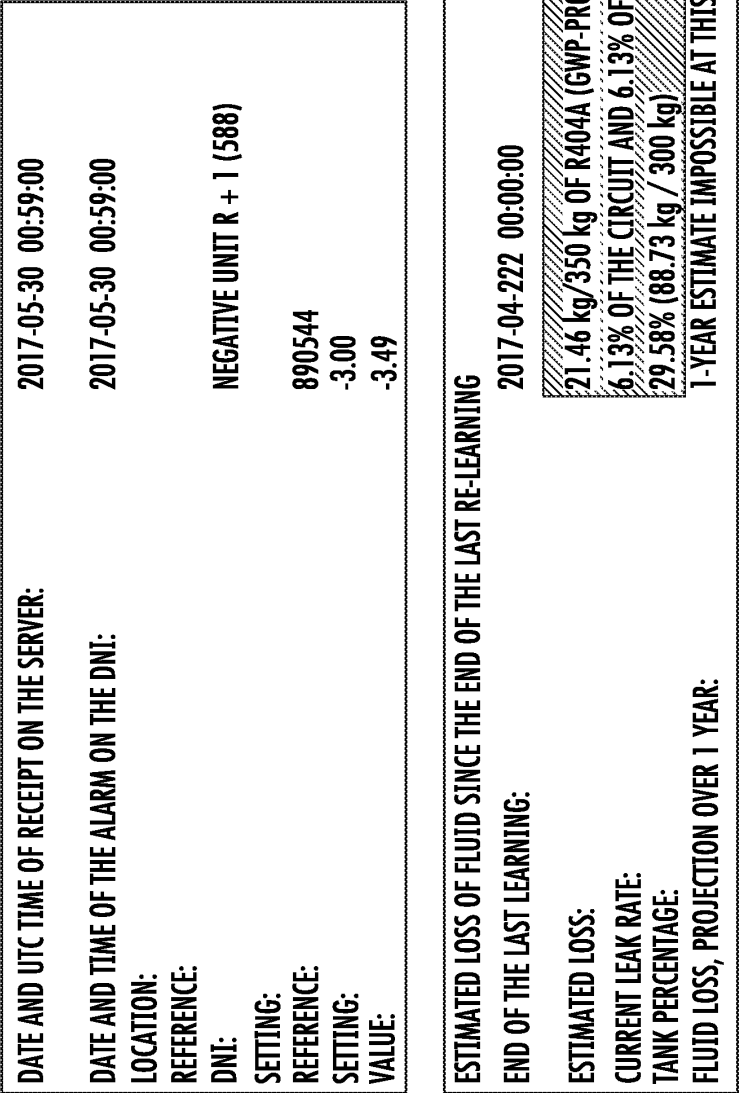


FIG. 3

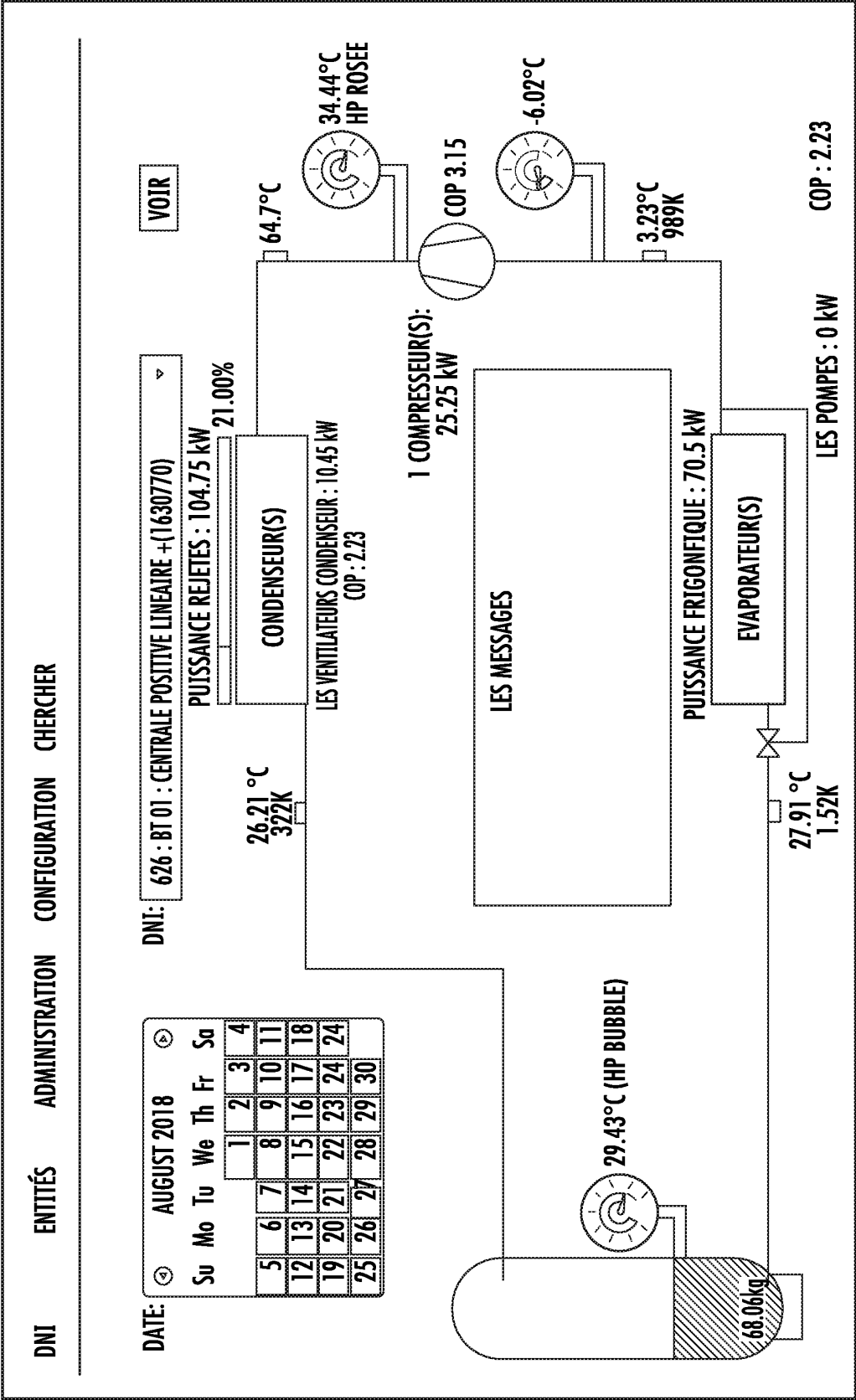


FIG. 4A

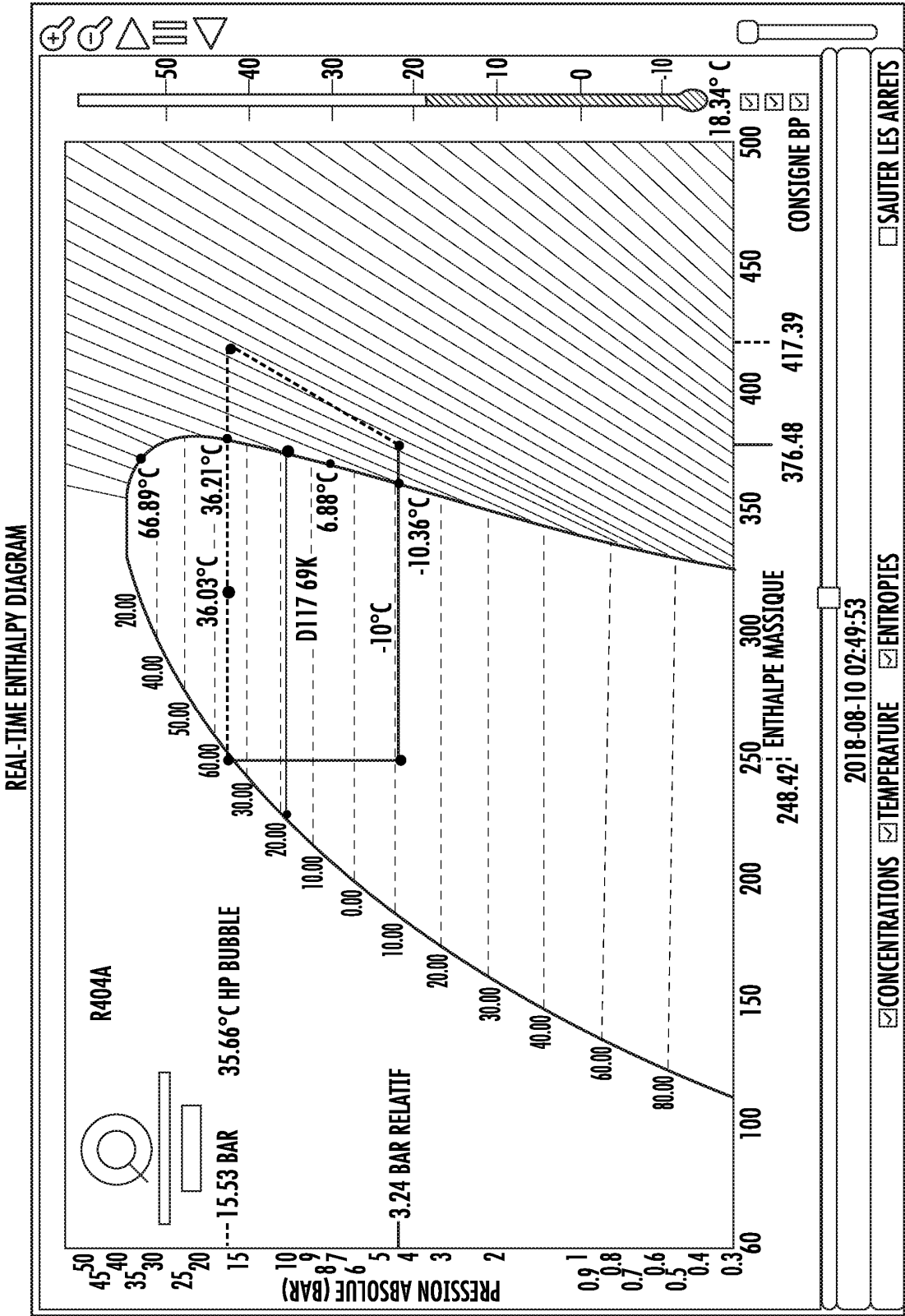


FIG. 4B

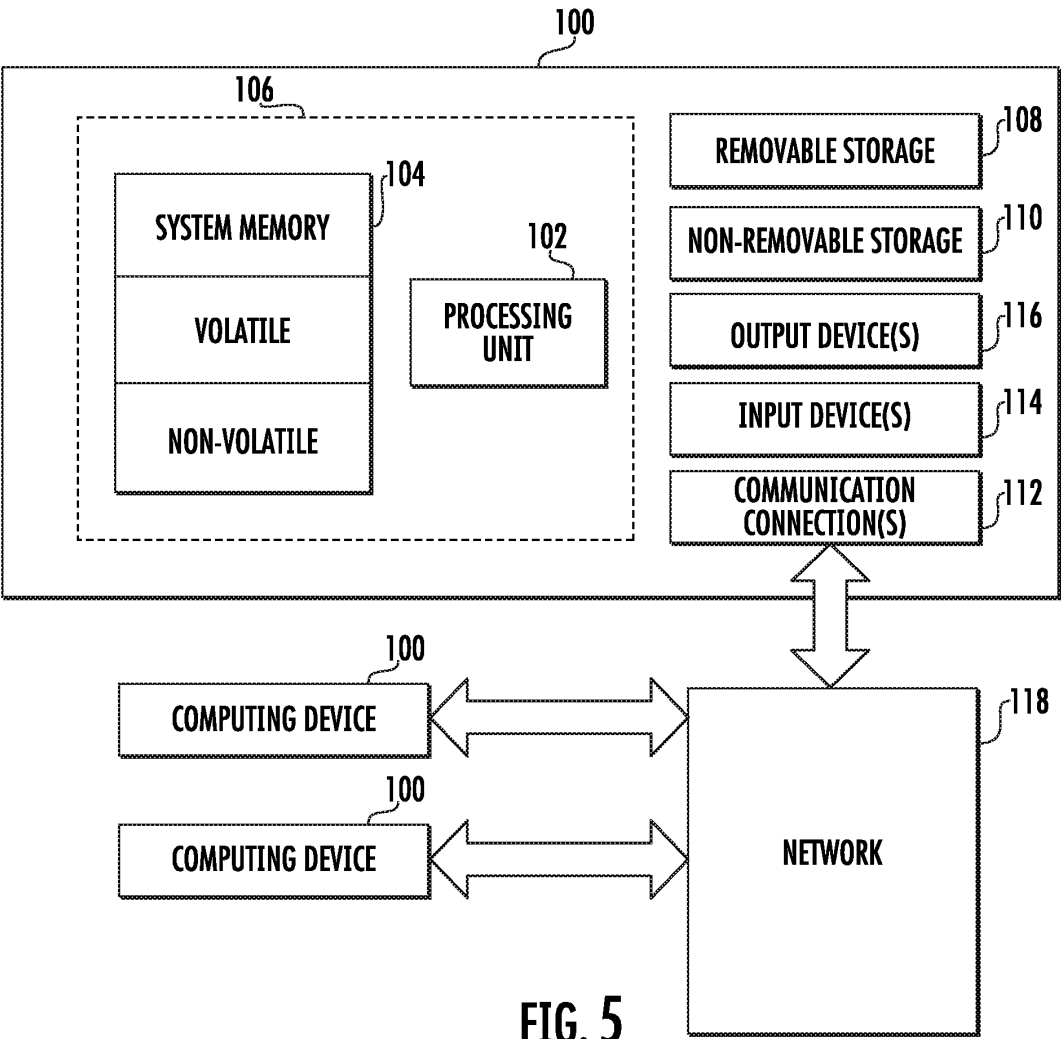
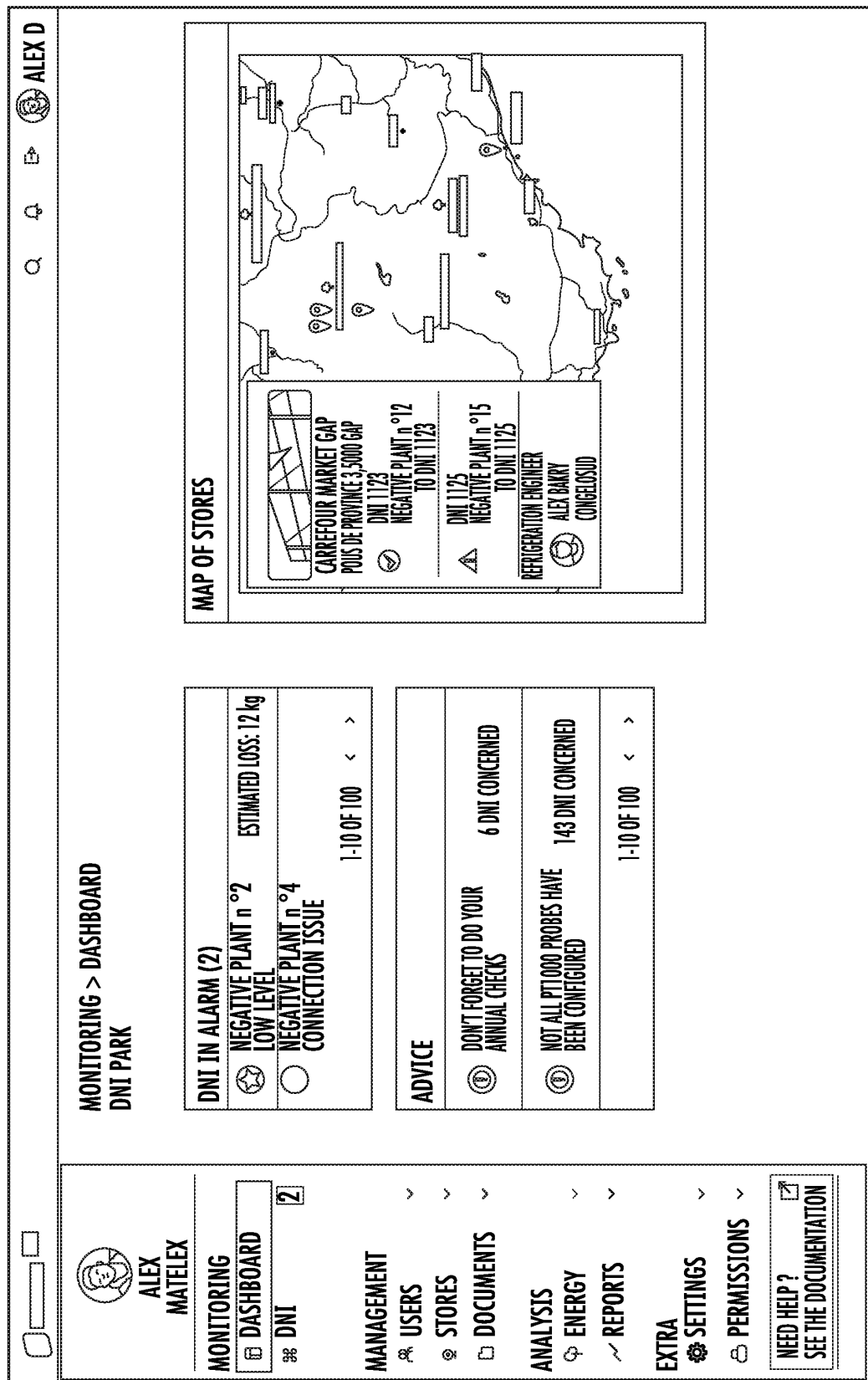


FIG. 5



ADMINISTRATEUR MATELEX

ID POLARBOX

.....

FOLLOW-UP

DASHBOARD

% EQUIPMENT 630

MANAGEMENT

USERS

CUSTOMER LOCATIONS

DOCUMENTS

ANALYSIS

ENERGY

REPORTS

DO YOU NEED HELP?

CONSULT THE DOCUMENTATION

EQUIPMENT > LIST OF EQUIPMENT

LIST OF EQUIPMENT

EQUIPMENT CUSTOMER LOCATION...

GROUP COUNTRY... AGENCY ~

DELETE FILTERS

ALL

IN ALARM 609

CHECKS TO BE CARRIED OUT

NOT CONNECTED

3M

ACLV

ALCAMPO MADRID RIO

ALCAMPO MORATALAZ

ALCAMPO SANT QUIRZE QUIRZE DEL VALLES

ITEMS PER PAGE: 10

1 - 10 OF 1077

DELETE FILTERS

+

-

+

-

+

-

FIG. 6B

EN > ML

ADMINISTRATEUR MATHEX

ID POLARBOX

.....

FOLLOW-UP

DASHBOARD

EQUIPMENT

635

MANAGEMENT

USERS

CUSTOMER LOCATIONS

DOCUMENTS

ANALYSIS

ENERGY

REPORTS

DO YOU NEED HELP?

CONSULT THE DOCUMENTATION

EQUIPMENT ELM CITY MARKET NEW HAVEN > 3534-3534 ~

3534

STATUS: FLUID ALARM LAST CHECK: 03/02/2023

DESCRIPTION

FLUID CURVES

ENERGY CURVES

PERFORMANCE

ACTIVITY

ALARMS

1

USERS

IDENTIFICATION

EQUIPMENT NUMBER 3534

PLANT REFERENCE

NAME 3534

FLUID R404A

REFERENCE LEVEL 134.0 kg

LOW LEVEL 80.0 kg

HISTORY

DATE OF INSTALLATION 03/02/2023 18:29:12

LAST SETPOINT 03/02/2023 19:20:25

LAST ALGORITHM LEARNING 03/02/2023

LAST REGISTRATION 20/06/2023

VERSION

TYPE OF EQUIPMENT DNI

SOFTWARE VERSION 10.5.7

HARDWARE VERSION 1.0.0

KERNEL VERSION 4.20.11

TYPE OF EQUIPMENT MEASURE

SOFTWARE VERSION 10.060000

HARDWARE VERSION 2

TYPE OF EQUIPMENT ENERGY

SOFTWARE VERSION 10.020000

HARDWARE VERSION 2.0

TYPE OF EQUIPMENT ENERGY

SOFTWARE VERSION 10.020000

HARDWARE VERSION 2.0

LOCATION

INSTALLER

NOM DE L'AGENCE

FIG. 6C

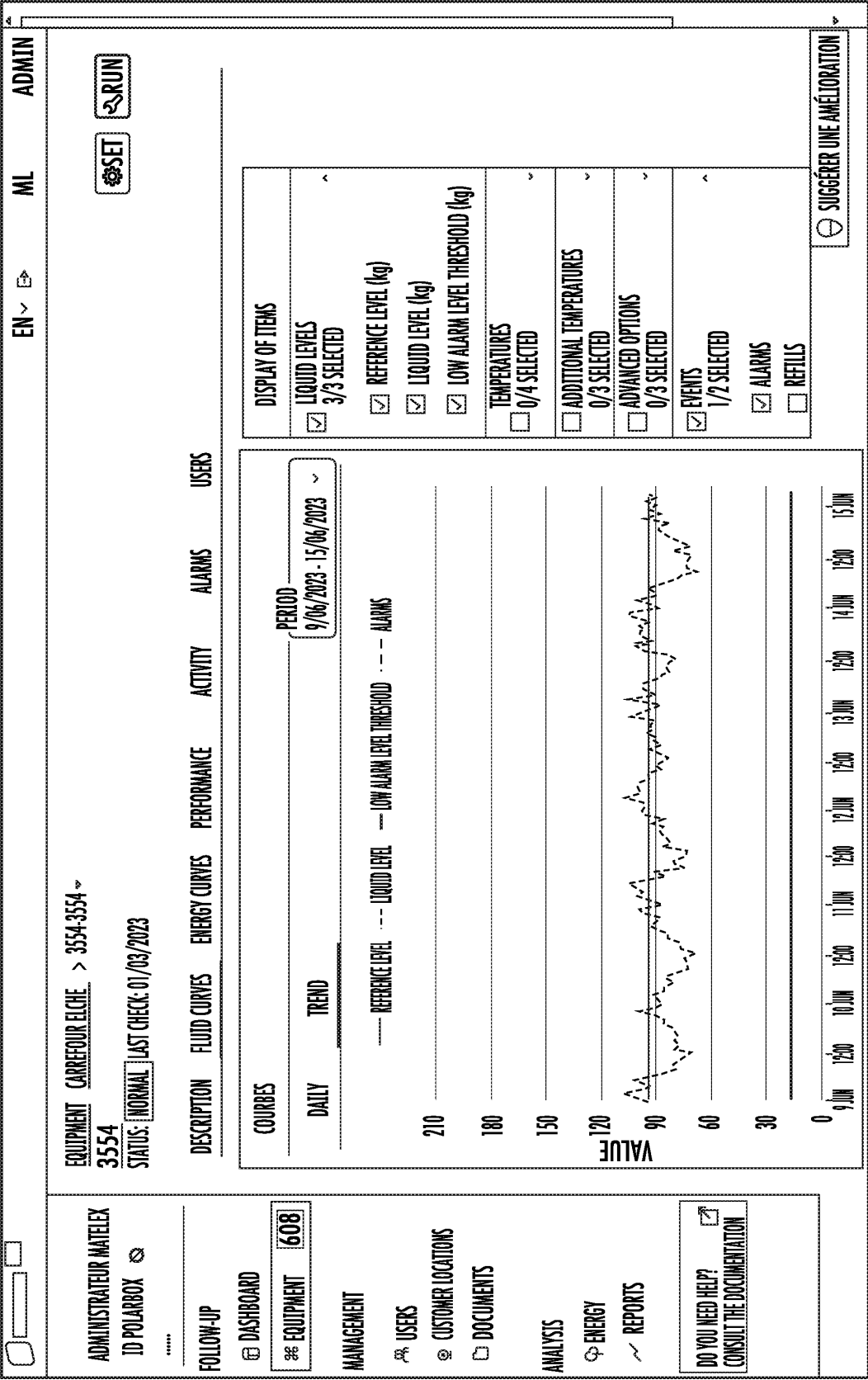


FIG. 6D

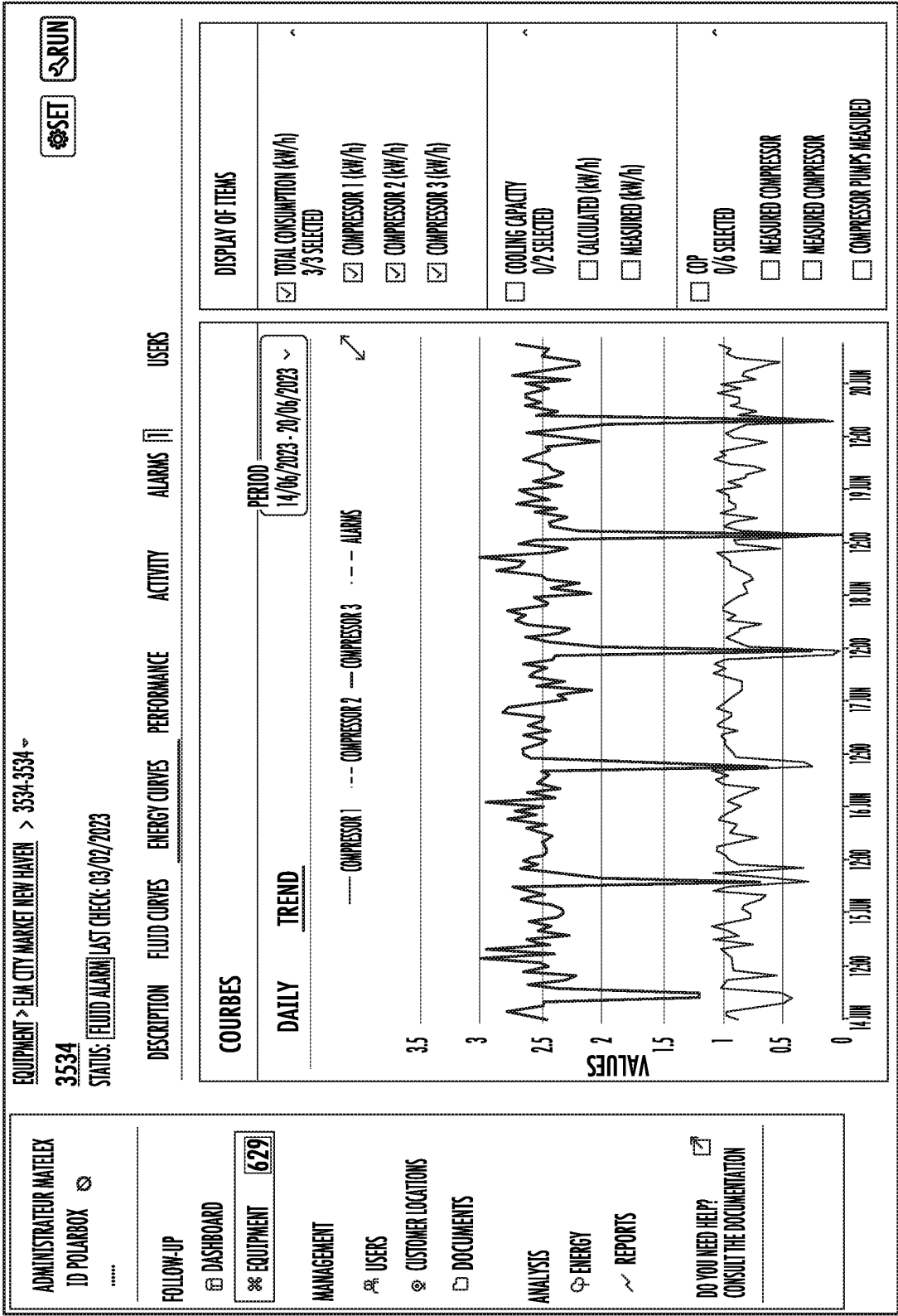


FIG. 6E

×

ADD A NEW UNIT - 1/4

INDICATE THE CHARACTERISTICS OF THE UNIT

✓

REFRIGERANT

✓

TANK

C

CONDENSER - EVAPORATOR

VOLUME OF THE CONDENSER

1229 dm3

D

COLUMN

CONDENSOR TYPE

AIR COOLED CONDENSER

COMPRESSOR TYPE

RECIPROCATING

FLOATING HP

ADAPTIVE LP

HEAT RECOVERY

WATERING OF CONDENSERS

HP SETPOINT

20

BP SETPOINT

-40

15

50

-50

10

PREVIOUS

NEXT

FIG. 7A

×

ADD A NEW UNIT - 1/4

INDICATE THE CHARACTERISTICS OF THE UNIT

✓

REFRIGERANT

✓

TANK

✓

CONDENSER - EVAPORATOR

D

COLUMN

TYPE OF TANK
COPPER

DISTANCE BETWEEN TANK TAPS
1'229 dm3

DISTANCE BETWEEN TANK BOTTOM & BOTTOM TAP
200 mm

PREVIOUS

NEXT

FIG. 7B

SUBSTITUTE SHEET (RULE 26)

×

ADD A NEW UNIT - 2/4

REFRESH

MEASUREMENT CARDS

ASSOCIATION

IDENTIFY

CARD ASSOCIATED WITH PLANT 1

WEIGHT / HP

IDENTIFY

CARD ASSOCIATED WITH PLANT 1

BP MEASURE

IDENTIFY

GPIO CARDS

ASSOCIATION

IDENTIFY

CARD AVAILABLE

IDENTIFY

CARD ASSOCIATED WITH PLANT 1

IDENTIFY

CANCEL

PREVIOUS

NEXT

FIG. 7C

×

ADD A NEW UNIT - 3/4

REFRESH

ASSOCIATE THE PROBES WITH THE MEASUREMENT CARDS

MEASUREMENT CARD 1 - WEIGHT / HP

IDENTIFY

TERMINAL BLOCK 1

PROBE 12390931093

INPUT TEMP

PROBE 23094384082

OUTPUT TEMP

TERMINAL BLOCK 2

TERMINAL BLOCK 3

TERMINAL BLOCK 4

MEASUREMENT CARD 2 - BP

IDENTIFY

TERMINAL BLOCK 1

TERMINAL BLOCK 2

CANCEL

PREVIOUS

NEXT

FIG. 7D

×

ADD A NEW UNIT - 4/4

ALARM SETTING

LOW LEVEL ALARM THRESHOLD

26 lbs

LOW LEVEL ALARM DELAY

20 min

☐ ☐

ACTIVATE THE SECOND LOW LEVEL THRESHOLD

LOW LEVEL ALARM THRESHOLD

17 lbs

LOW LEVEL ALARM DELAY

20 min

SENSITIVITY OF THE STATISTICAL ALARM[®]

☒ HIGH

☐ MODERATE

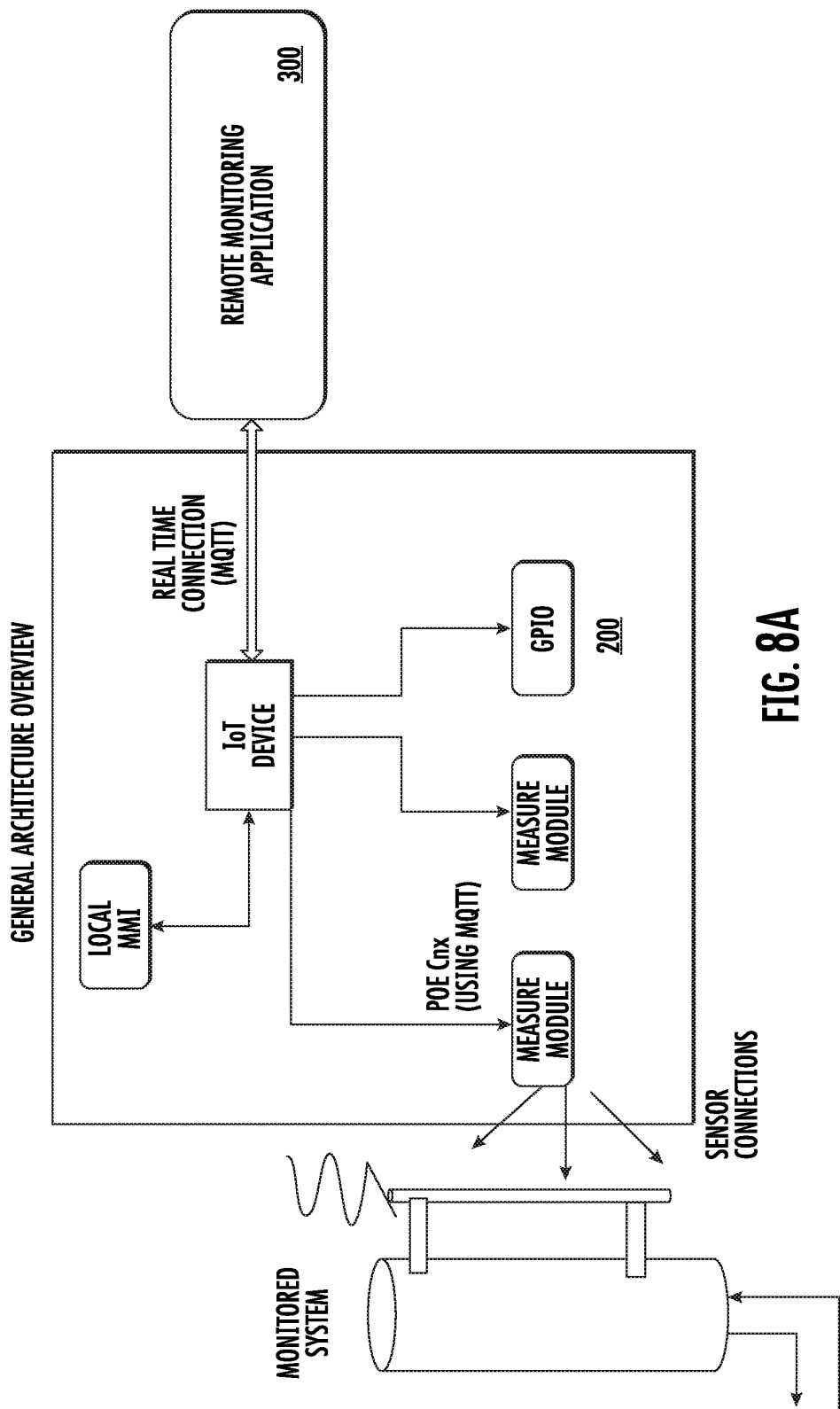
☐ LOW

CANCEL

PREVIOUS

NEXT

FIG. 7E



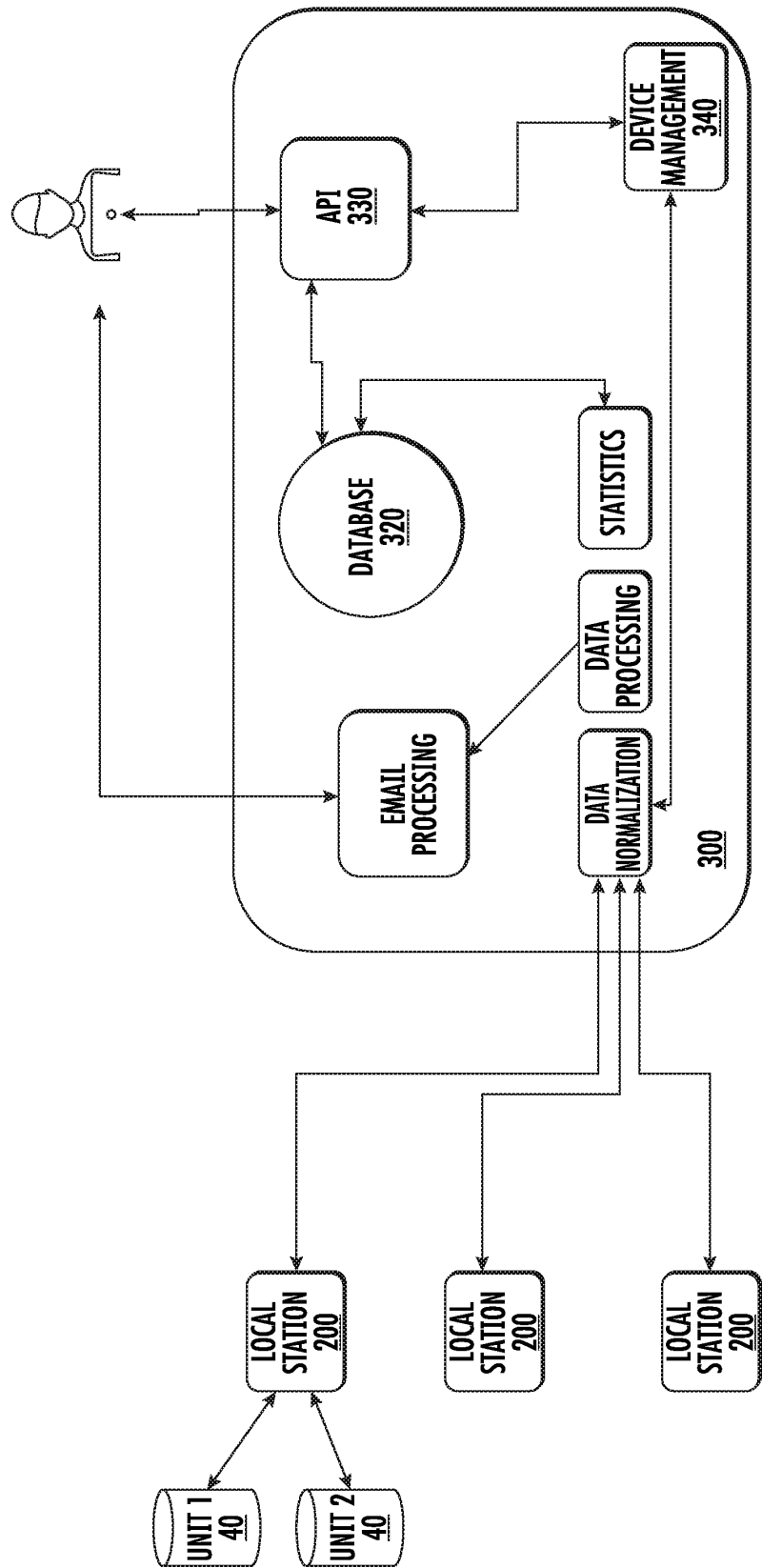


FIG. 8B

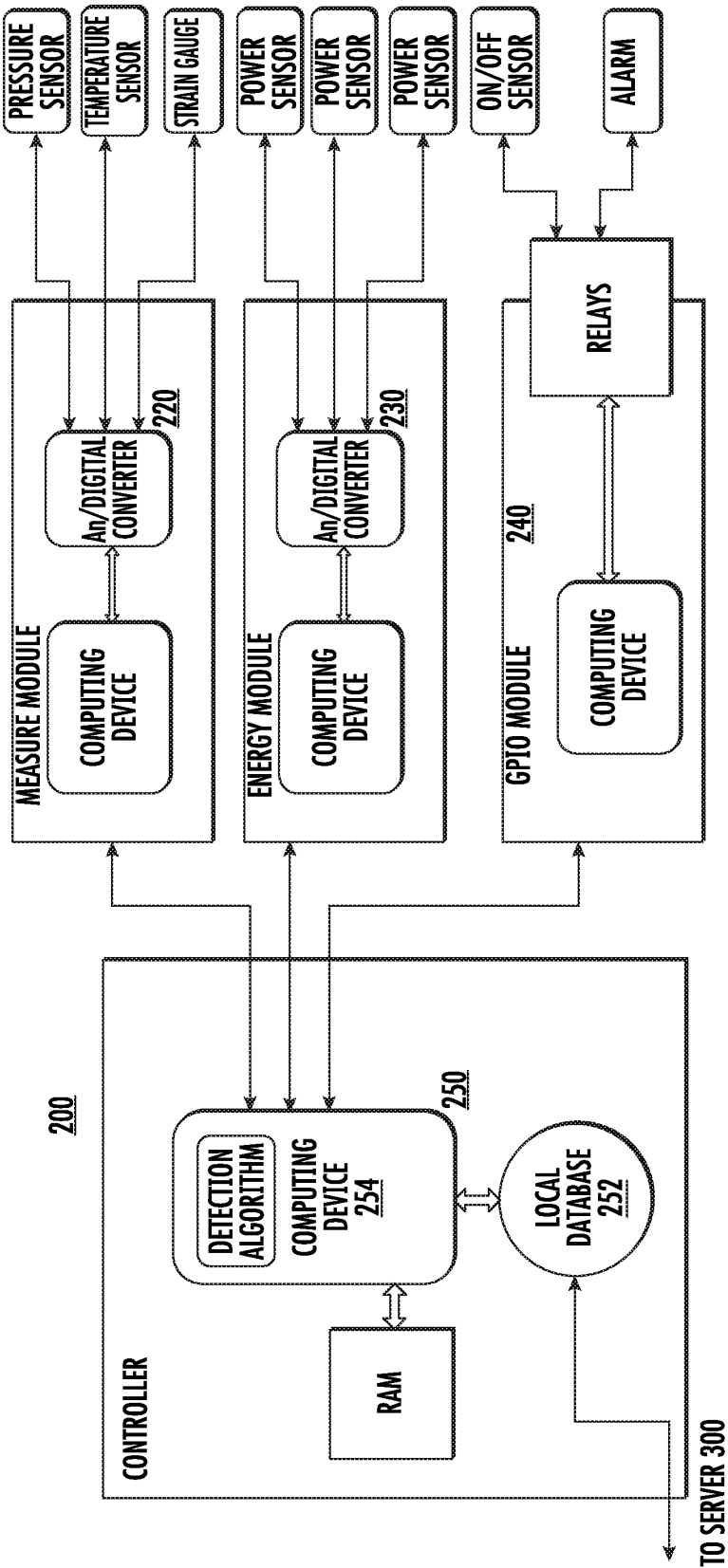


FIG. 9

OVERVIEW

CENTRALE 1

CENTRALE 2

MANAGE BOX

MAINTENANCE
NO MESSAGE

0

INSTALLATION
ADD A NEW PLANT

ADD

STATUS OF THE REFRIGERATION UNITS

CENTRALE 1

TECHNICAL ALARM

CENTRALE 2

INCONNU

POLARBOX STATUS

LICENCE

ENABLED

CONNECTION

CONNECTED

FIG. 10A

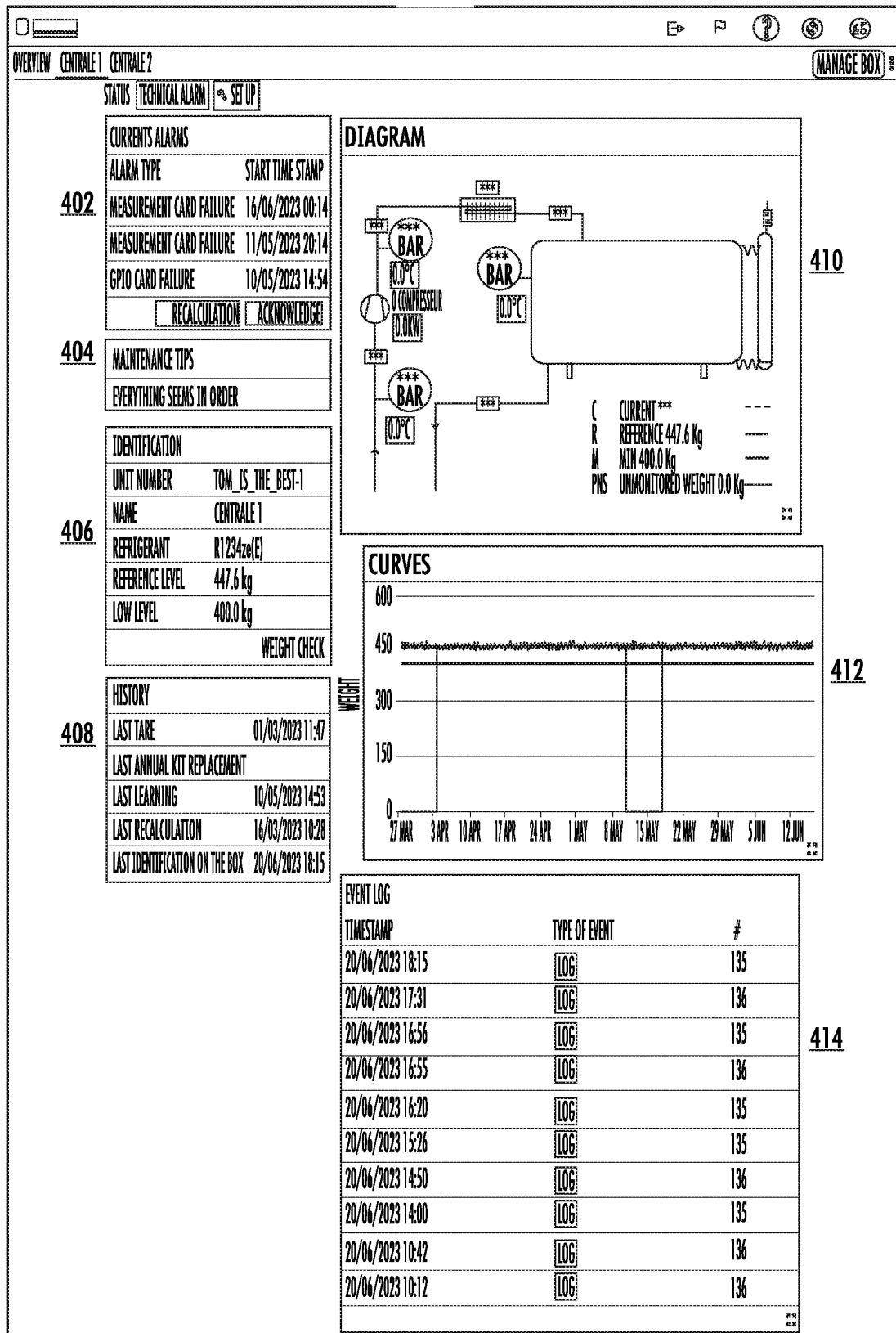


FIG. 10B

SUBSTITUTE SHEET (RULE 26)

×

RELEARNING / RECALCULATE

AFTER ACKNOWLEDGING AN ALARM OR MAKING A CHANGE TO THE CONTROL UNIT OR SOLUTION, THE REFERENCE LEVEL MUST BE ADJUSTED. THERE ARE TWO POSSIBILITIES:

RE LEARNING

TO BE LAUNCHED IN CASE OF MODIFICATION ON THE CENTRAL UNIT (CHANGE OF AN ELEMENT, MODIFICATION OF THE PROGRAMMING,...) OR ON THE SOLUTION (TARE, MODIFICATION OF THE GAUGE,...)

RECALCULATION

TO BE LAUNCHED IN CASE OF MODIFICATION ON THE CENTRAL UNIT (CHANGE OF AN ELEMENT, MODIFICATION OF THE PROGRAMMING,...) OR ON THE SOLUTION (TARE, MODIFICATION OF THE GAUGE,...)

☐ START A RECALCULATION/LEARNING AFTER A LEAK

SOME ACTIONS MAY BE USEFUL TO ENSURE PROPER FUNCTIONING.

TARE

THE TARE MUST BE DONE AT LEAST ONCE A YEAR.

DECLARE A REFILL

CLOSE

FIG. 10C

×

ACKNOWLEDGE ALL ALARMS?

3 ALARMS WILL BE ACKNOWLEDGED AFTER THIS ACTION.

ALARM TYPE	DESCRIPTION	START DATE
MEASUREMENT CARD FAILURE		16/06/2023 00:14
MEASUREMENT CARD FAILURE		11/05/2023 20:14
GPIO CARD FAILURE		10/05/2023 14:54

HIDE DETAIL

☐ I CONFIRM THAT ALL LEAK HAVE BEEN REPAIRED

CLOSE

ACKNOWLEDGE

FIG. 10D

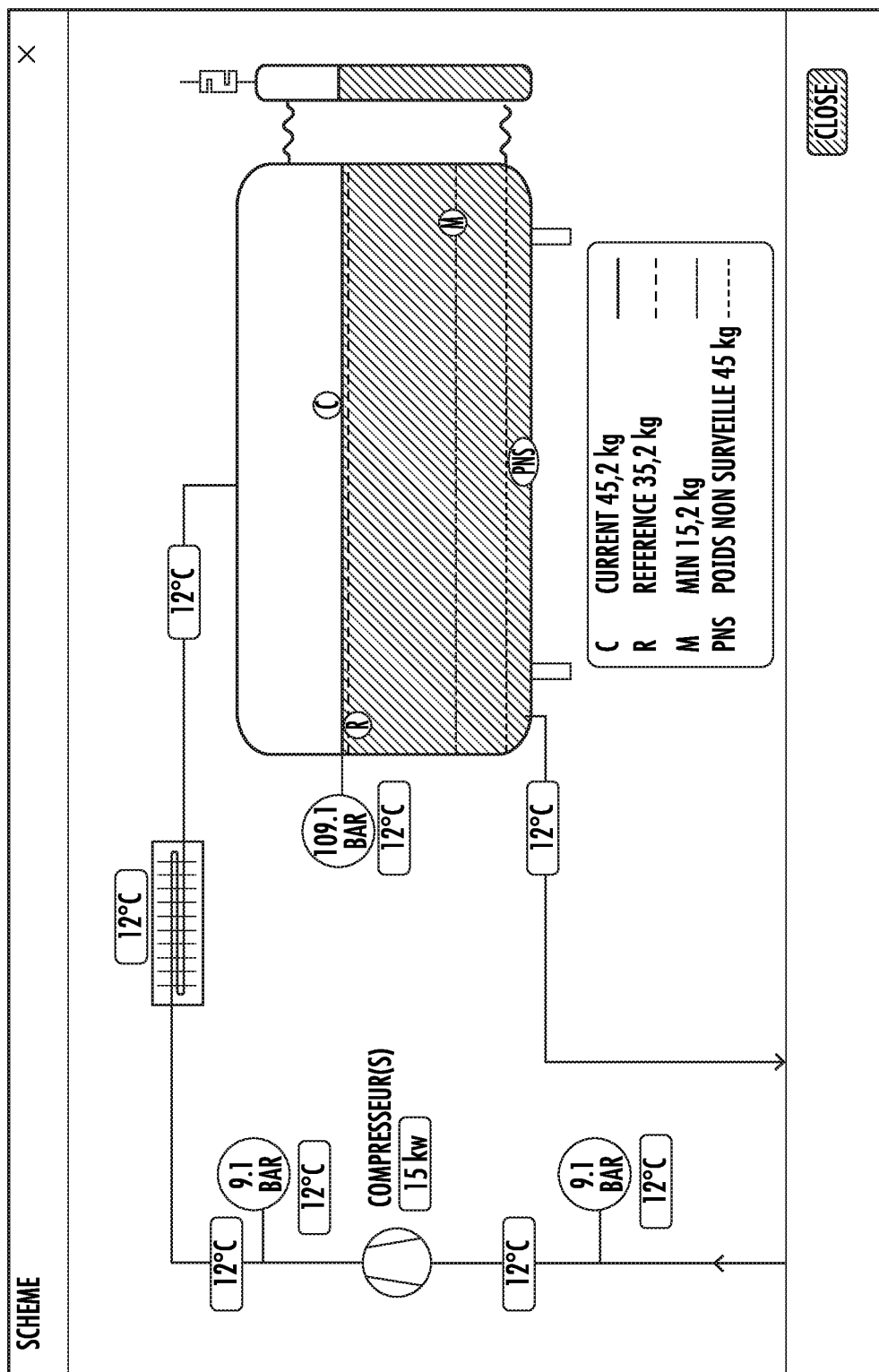


FIG. 10E

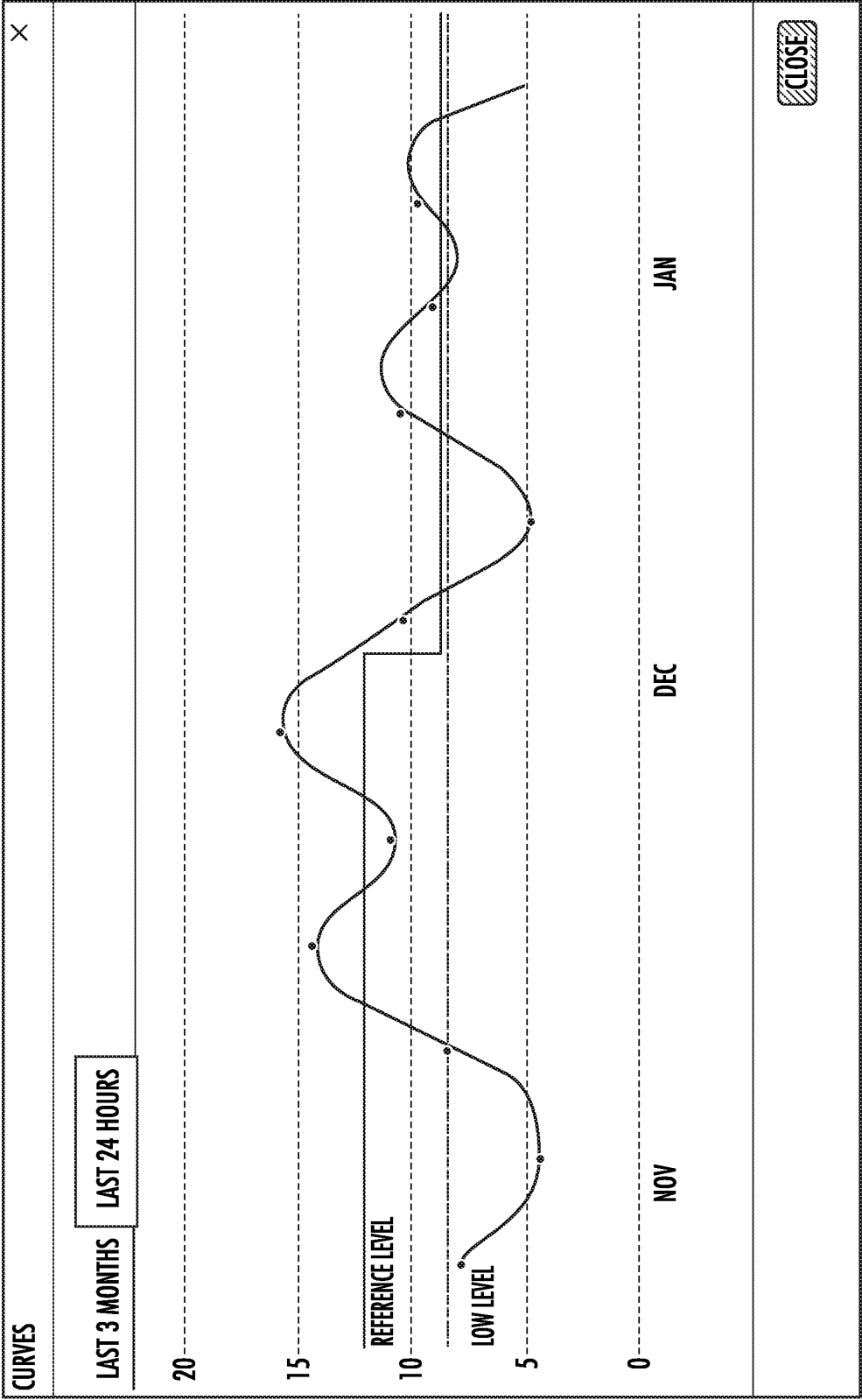


FIG. 10F

EVENT LOG					×
FILTER EVENTS SELECTED (1)		PERIOD MAY 2, 2019 - NOW			▼
HORODATAGE	TYPE OF EVENT	#	DESCRIPTION	INFORMATION	
16/11/2020 00:00:35	STARTING THE POLARBOX	4	PROGRAM VERSION V10.02.07	→	
16/11/2020 00:00:35	STATISTICAL ALARM	12	HIGH	→	
16/11/2020 00:00:35	DISCONNECTING THE POLARBOX	3		→	
16/11/2020 00:00:35	STARTING THE POLARBOX	4	PROGRAM VERSION V10.02.07	→	
16/11/2020 00:00:35	DISCONNECTING THE POLARBOX	3		→	
16/11/2020 00:00:35	SLOW CONNECTION	3	PROGRAM VERSION V10.02.07	→	
16/11/2020 00:00:35	NORMAL	1	PROGRAM VERSION V10.02.07	→	
16/11/2020 00:00:35	NORMAL	1	PROGRAM VERSION V10.02.07	→	
16/11/2020 00:00:35	NORMAL	1	PROGRAM VERSION V10.02.07	→	
ROWS PER PAGE: 5					▼1-10 OF 100 < >
					CLOSE

FIG. 10G

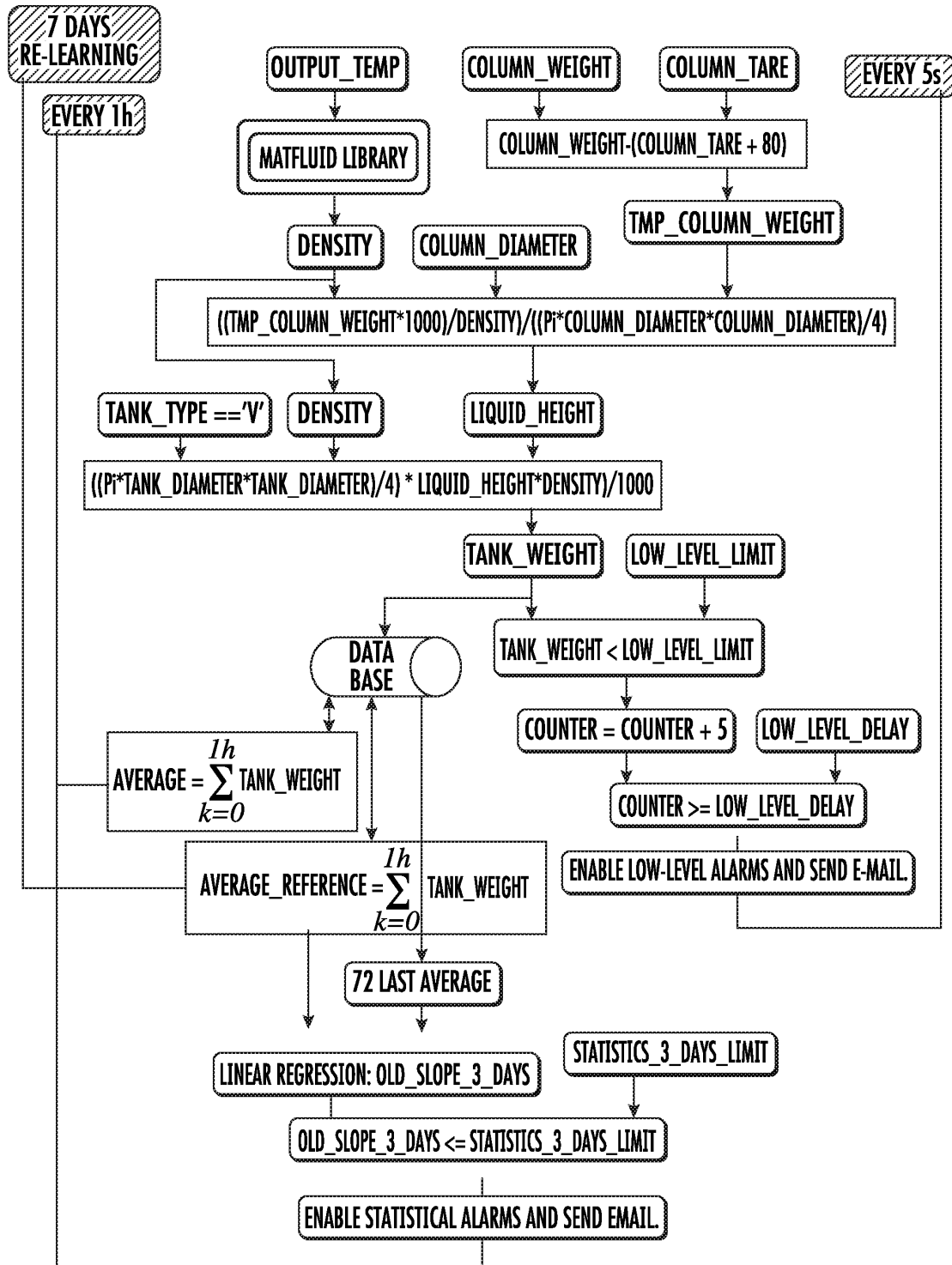


FIG. 11