

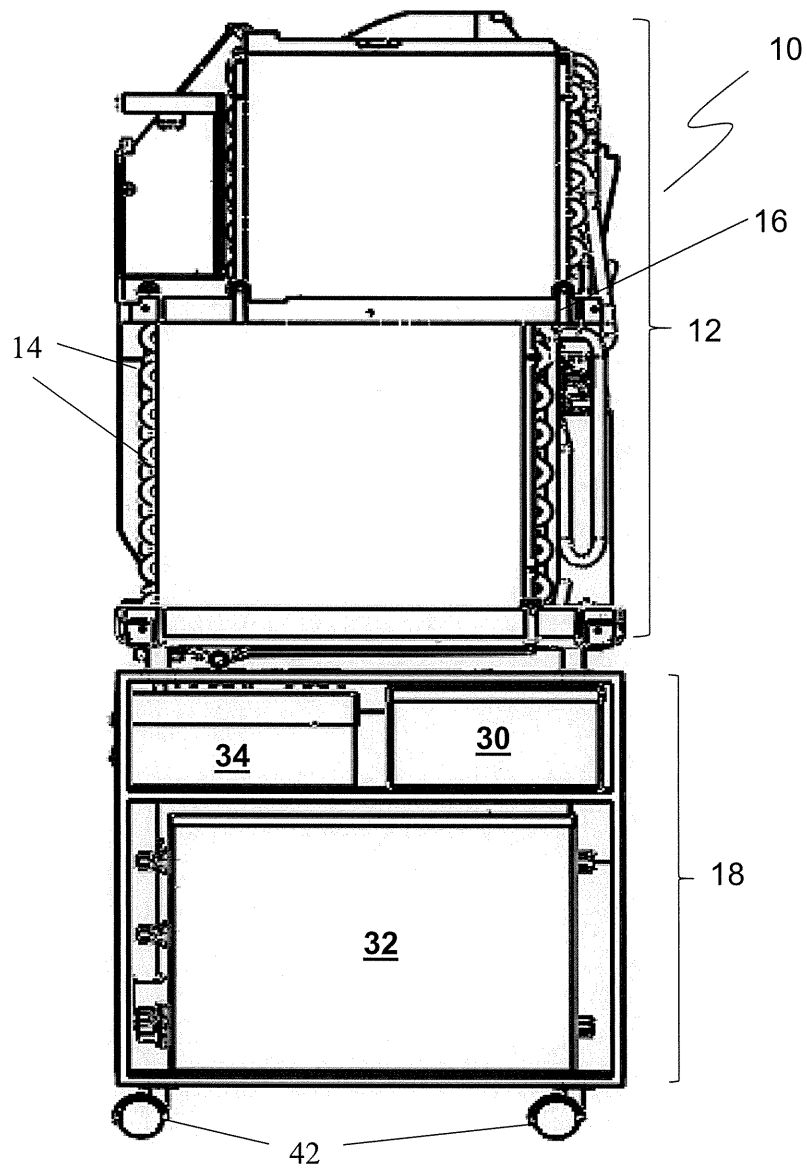
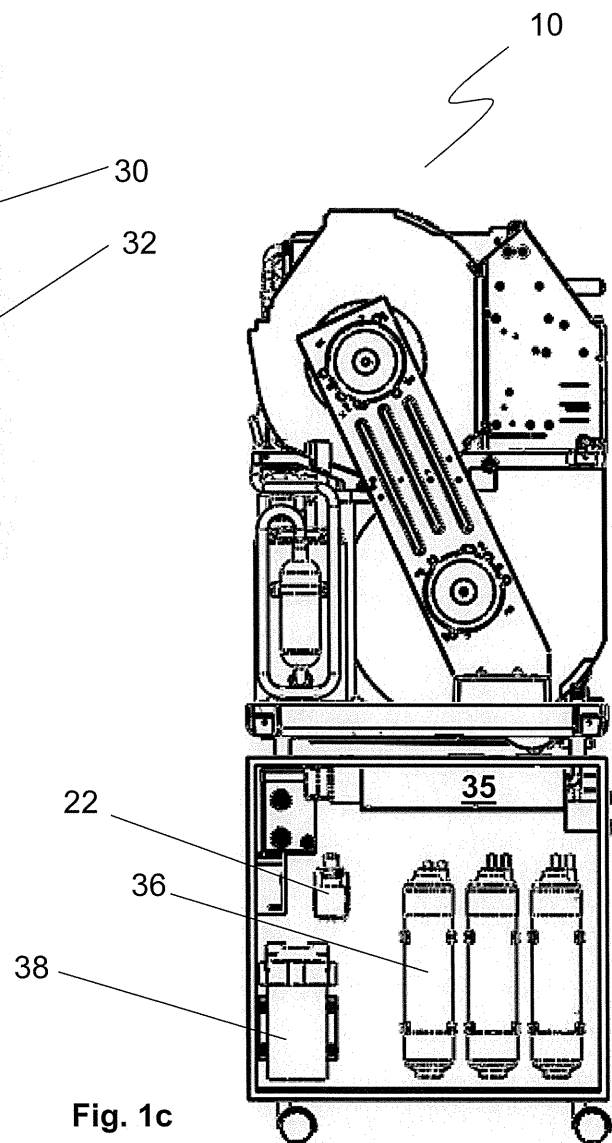
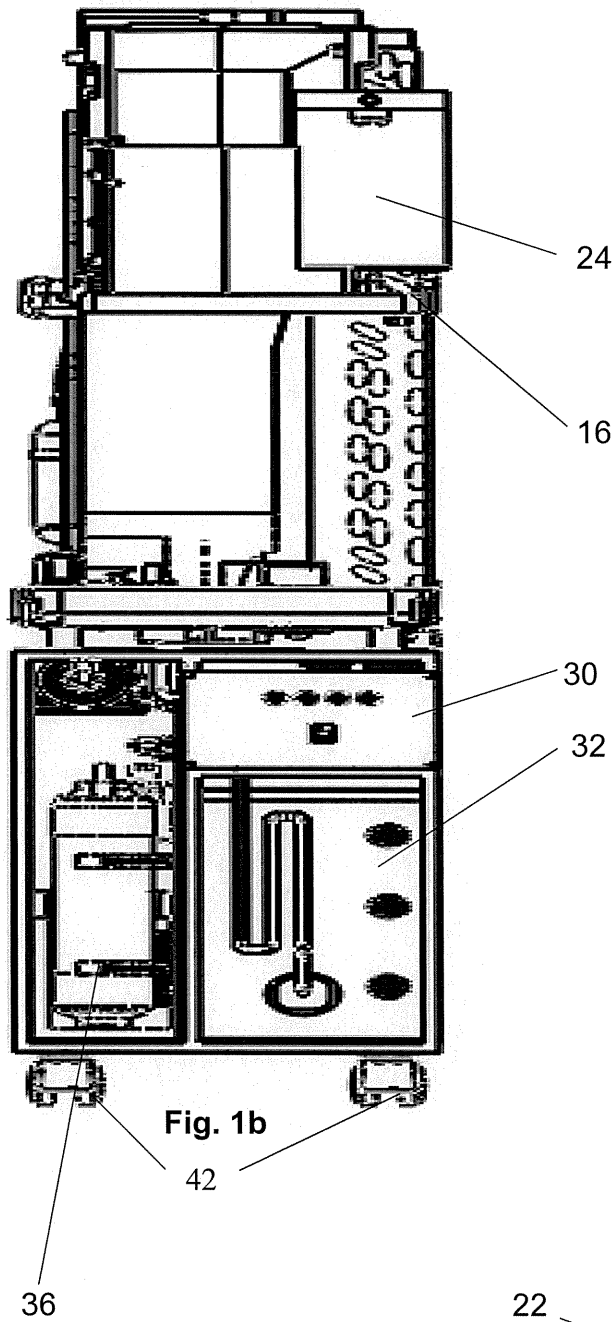


Fig. 1a



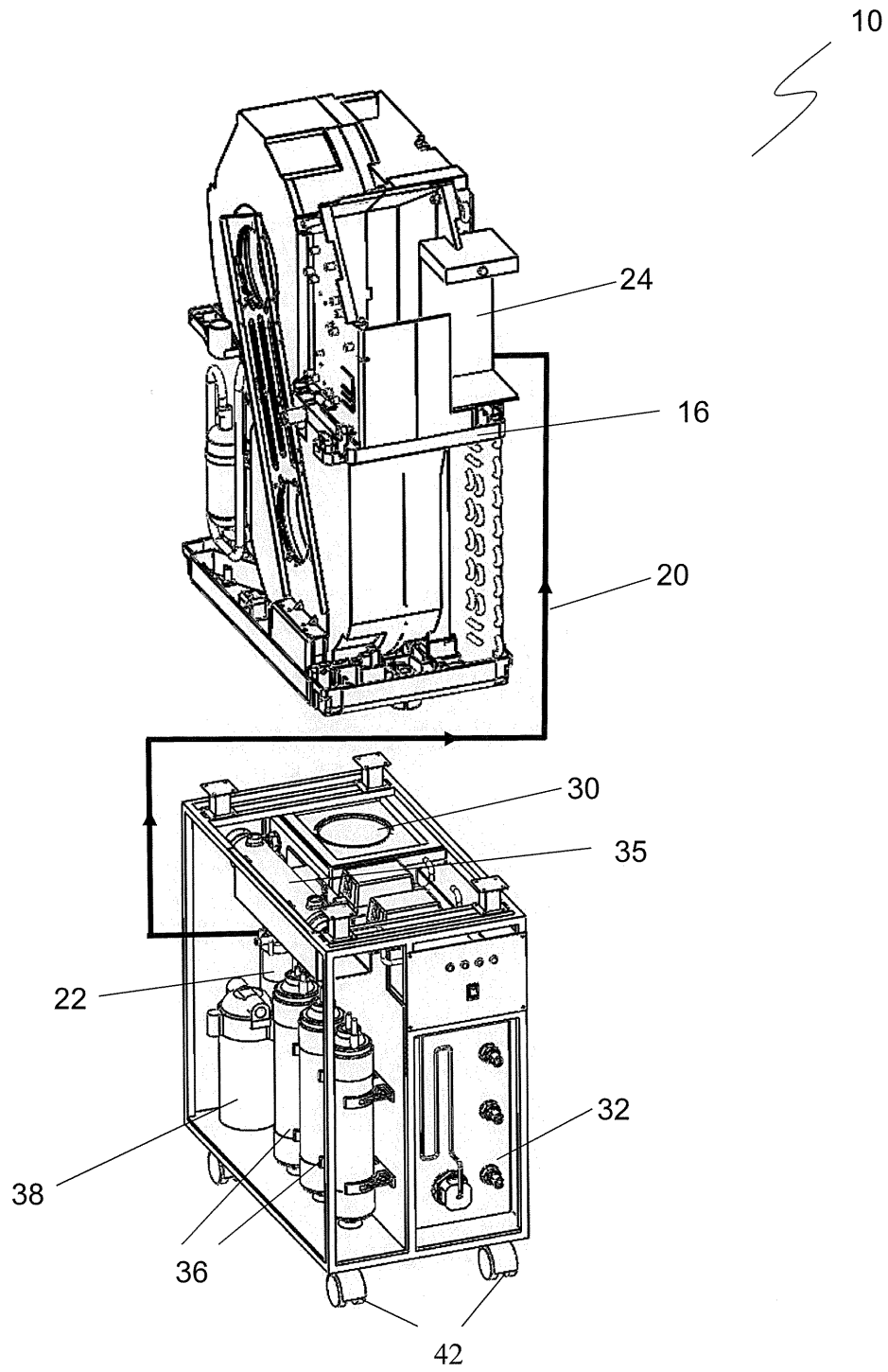


Fig. 2a

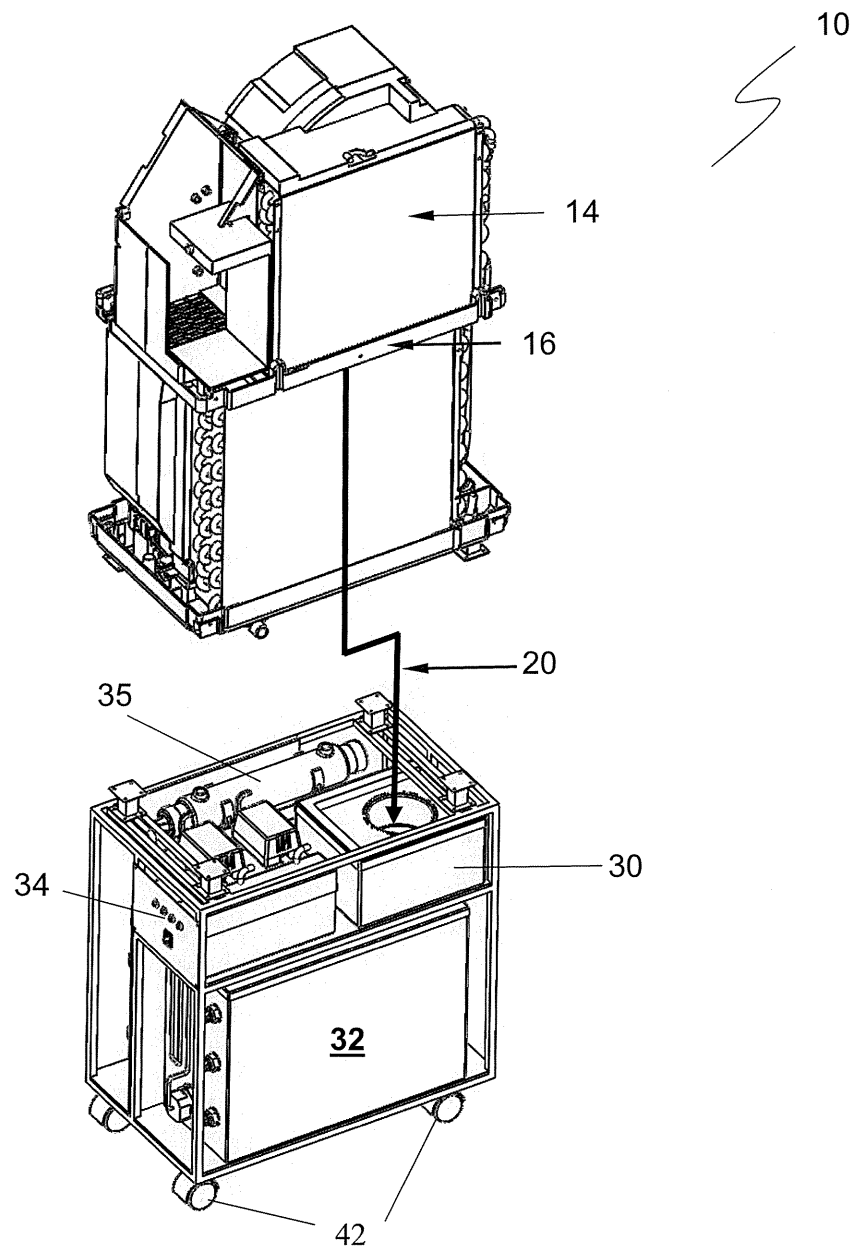


Fig. 2b

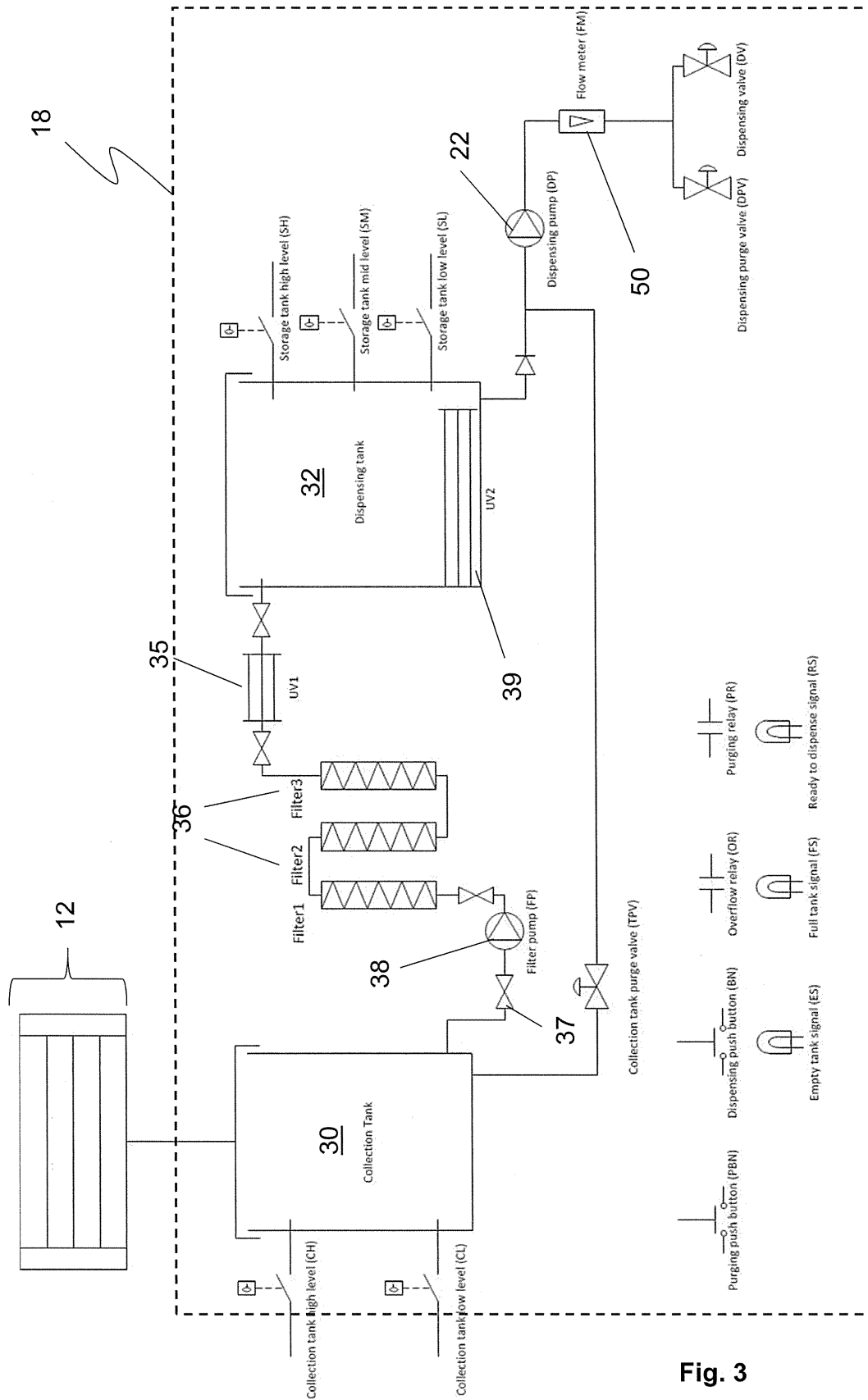


Fig. 3

Input	Output
Dispensing push button (BN)	Filter pump (FP) / UV1
Purging push button (PBN)	UV2
Collection tank high level (CH)	Dispensing pump (DP)
Collection tank low level (CL)	Collection tank purge valve (TPV)
Storage tank high level (SH)	Dispensing purge valve (DPV)/ Purging relay (PR)
Storage tank <u>mid level</u> (SM)	Dispensing valve (DV)
Storage tank low level (SL)	Overflow relay (OR)/ Full tank signal (FS)
Flow meter (FM)	Empty tank signal (ES)
	Ready to dispense signal (RS)

Fig. 4

Conditions	Output	Output	Details
1.1	FP/UV1 Filter pump/In-line UV	ON	CH=1 and SM=0 Collection level High; Storage Mid-Level
1.2		OFF	SH=1 Storage level High
1.3			CL=0 Collection Low level
2.1	DP Dispensing pump	ON	BN=1 and ES=0 and Purging stage=0 Dispensing push button ON; Empty Tank OFF Normal dispensing stage
2.2			CH=1 and Purging stage=1 Collection level high Completed start-up purging
2.3			SH=1 and Purging stage=2 Storage level High Completed filter purging
2.4		OFF	BN=0 and Purging stage=0 Dispensing push button OFF Normal dispensing stage
2.5			ES=1 and Purging stage=0 Empty tank ON Normal dispensing stage
2.6			CL=0 and Purging stage=1 collection Low level
2.7			SL=0 and Purging stage=2 Storage low level
3.1	UV2 Submersible UV	ON	SL=1 Storage level at least Low
3.2		OFF	SL=0 Storage low level
4.1	TPV Collection purging solenoid valve	ON	CH=1 and Purging stage=1 Collection high level Start-up purging stage
4.2		OFF	CL=0 Collection Low level
4.3			Purging stage not 1
5.1	DPV/PR Dispensing purge valve	ON	CH=1 and Purging stage=1 Collection High level Start-up purging stage
5.2			SH=1 and Purging stage=2 Storage High level Filter purging stage
5.3		OFF	Purging stage=0 Normal dispensing stage
5.4			CL=0 and Purging stage=1 Collection Low level Start-up purging stage
5.5			SL=0 and Purging stage=2 Storage Low level Filter purging stage
6.1	DV Water dispensing valve	ON	BN=1 and ES=0 and Purging stage=0 Dispensing push button ON Empty tank OFF

Fig. 5a

			Normal dispensing stage
6.2		OFF	Purging stage not 0 Start-up purging stage; filter purging stage
6.3			BN=0 and Purging stage=0 Dispensing push button OFF Normal dispensing stage
6.4			ES=1 Empty tank ON
7.1	ES Empty Tank signal	1	SL=0 and Purging stage=0 Storage Low level Normal dispensing
7.2		0	SM=1 and Purging stage=0 Storage Mid-level Normal dispensing
8.1	OR/FS Overflow / Full tank signal	ON	CH=1 and SH=1 Collection High level Storage High level
8.2		OFF	CH=0 Collection Low level
9.1	RS Ready to dispense	ON	ES=0 and Purging stage=0 Empty tank OFF Normal dispensing
9.2		OFF	Purging stage=0 Normal dispensing
9.3			ES=1 Empty tank ON
10.1	Purging stage	0	FM>Y Normal dispensing Flow meter reading > (start-up + filters purging volume)
10.2		1	FM<X Start-up purging Flow meter reading < start-up purging volume
10.3		2	PBN=1 Replacement of new filters purging Purging push button ON
10.4		2	FM>X and FM<Y and Purging stage=1 Filters purging Flow meter reading > start-up volume Flow meter reading < filter purging volume Purging stage 1 has to be completed
10.5		3	FM>Z and Purging stage=0 Reaching the span life of filters Flow meter reading > 6000L volume Normal dispensing condition

Fig. 5b

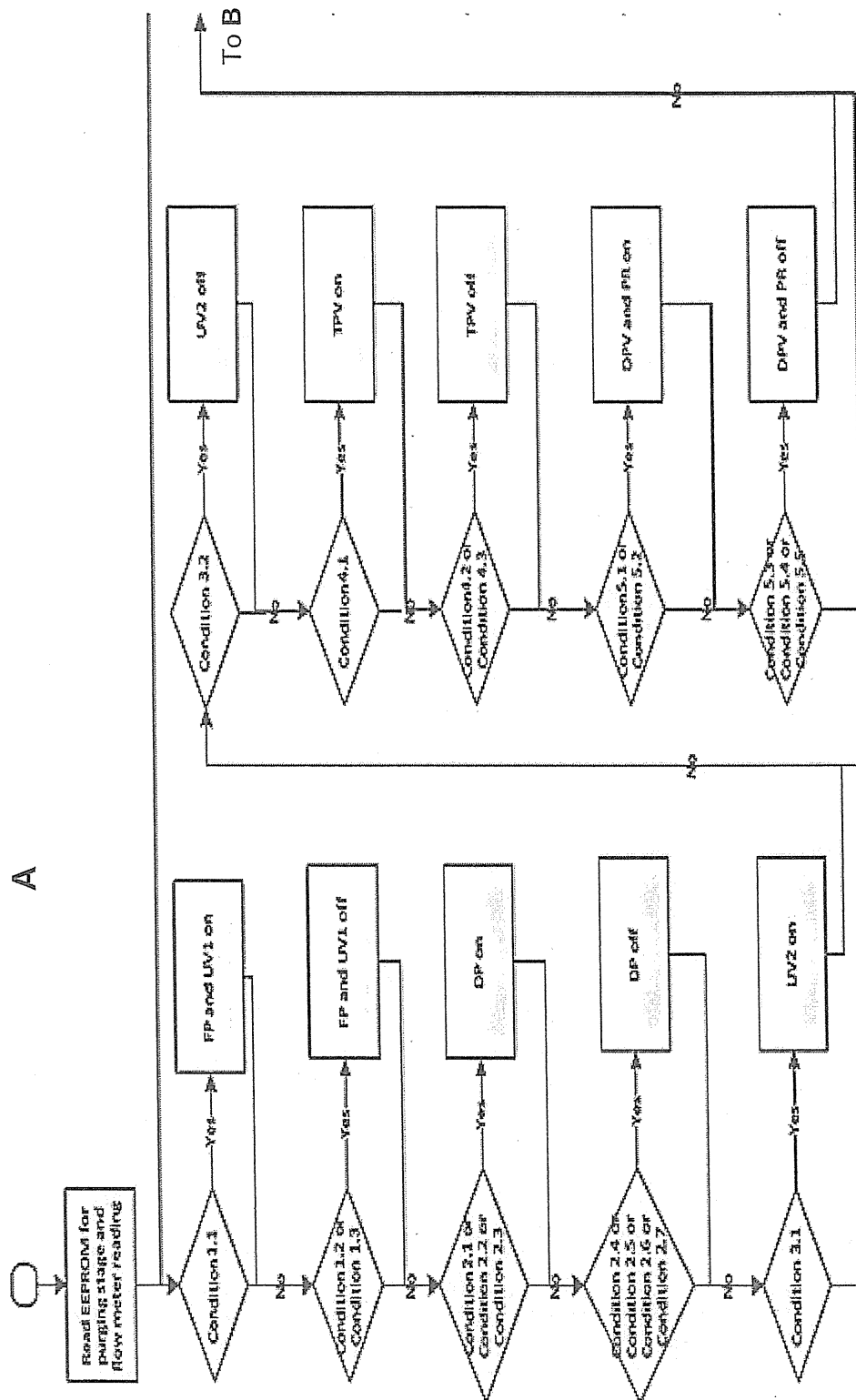


Fig. 6a

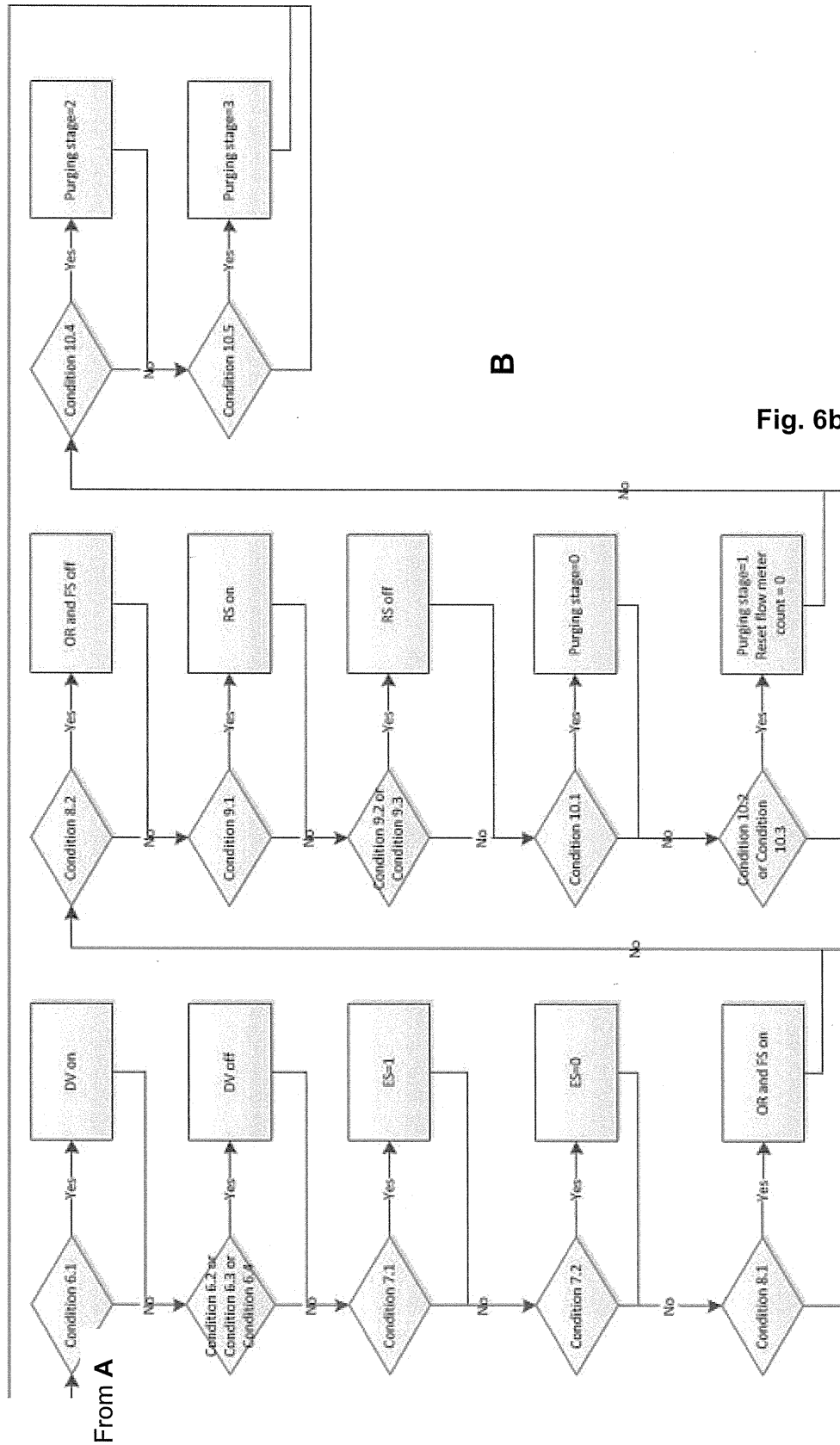


Fig. 6b

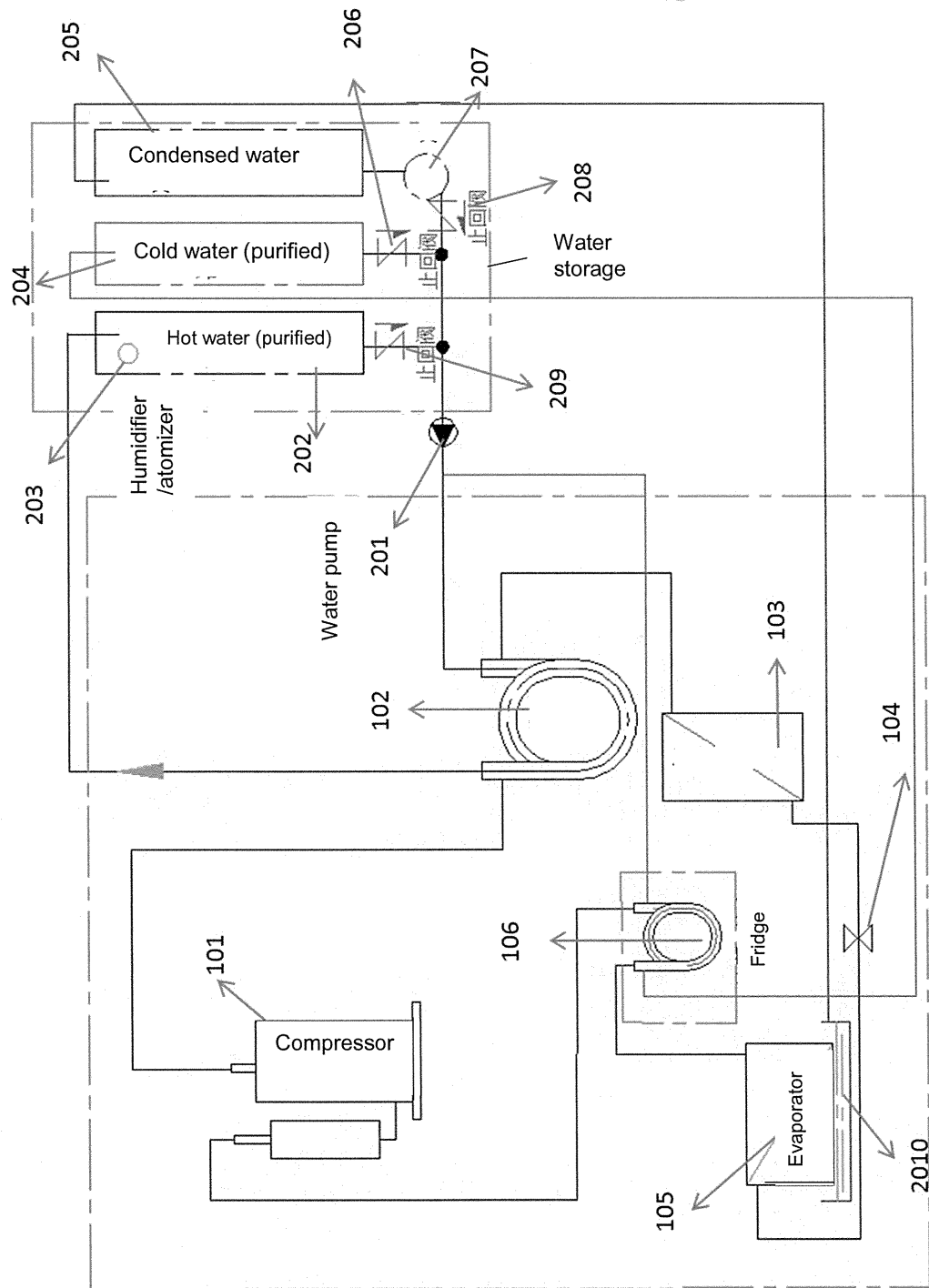


Fig. 7