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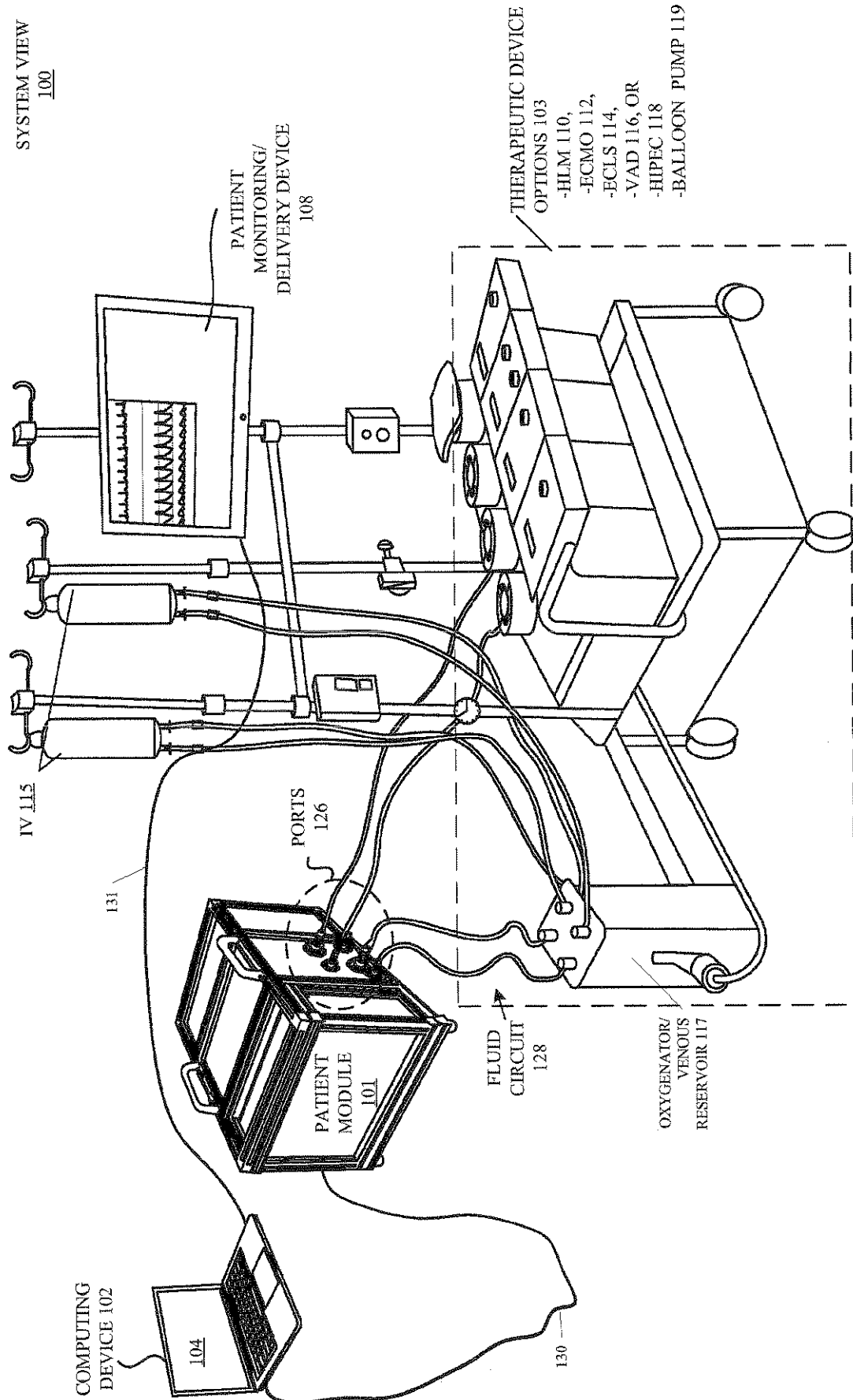


FIGURE 1

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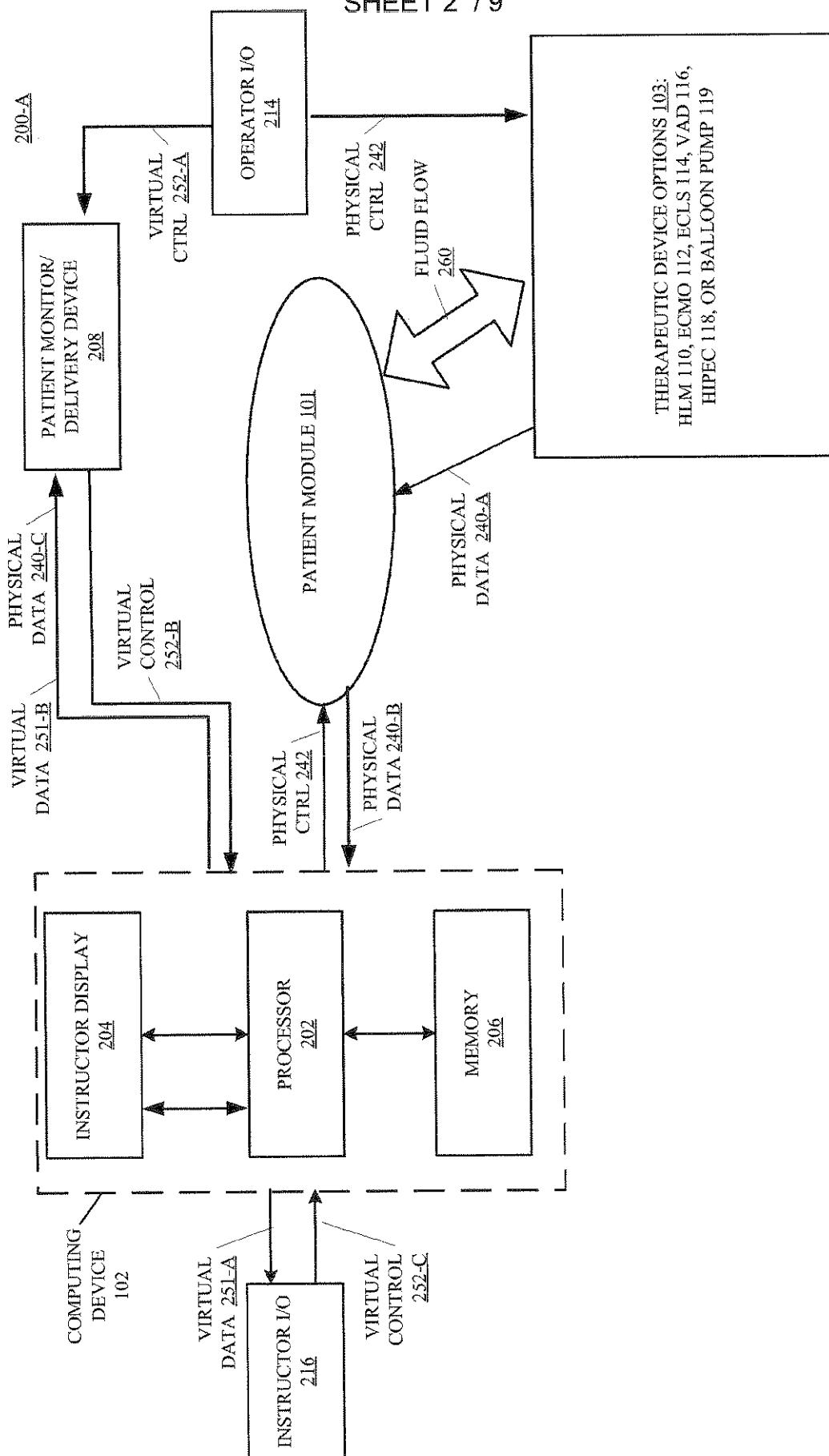
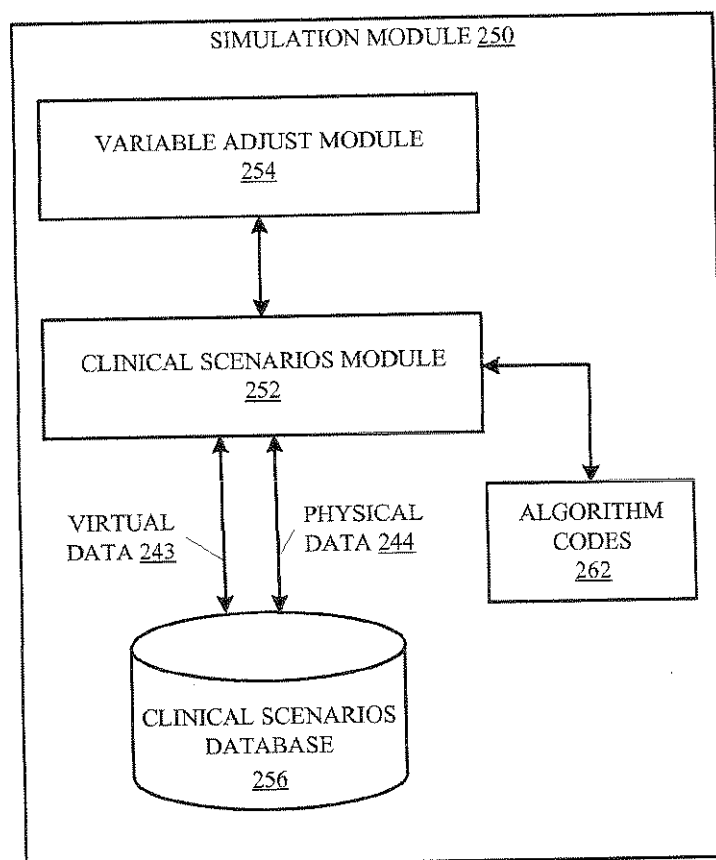


FIGURE 2A

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200-B**FIGURE 2B**

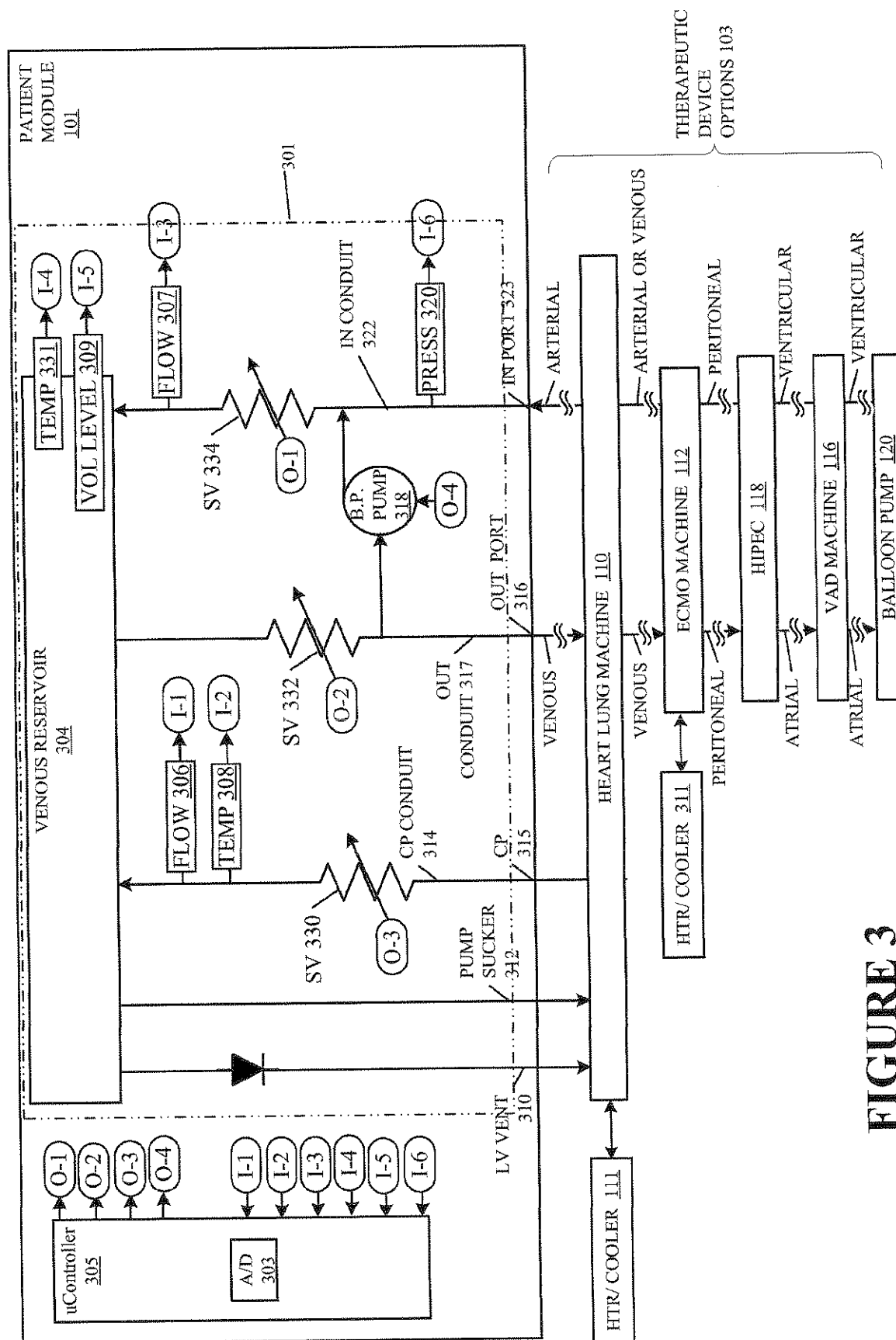


FIGURE 3

PATIENT MONITOR/ DELIVERY DEVICE 108

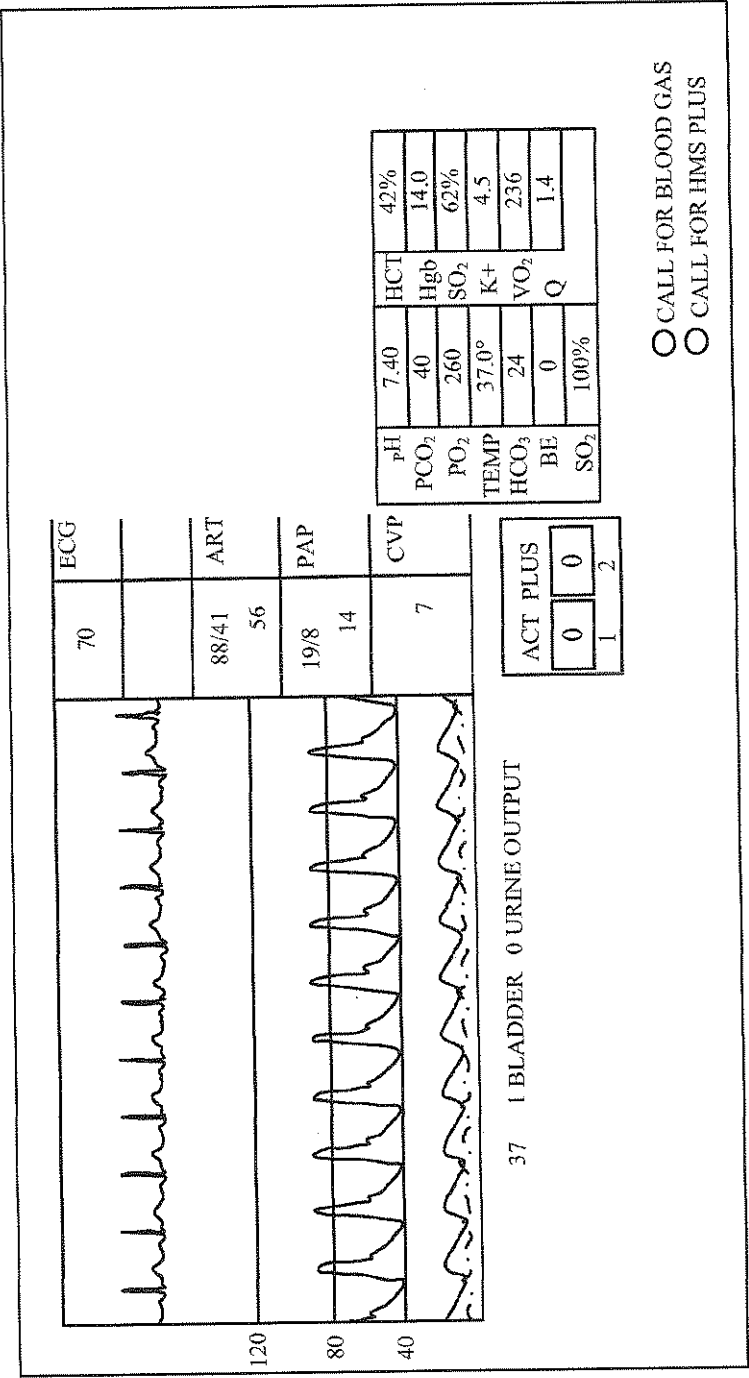


FIGURE 4

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INSTRUCTORS / CONTROL PANEL FOR HLM 104

END SIMULATION

SR 1 2 3 4 5 6 7 8 9 10

PACED 4 5 6 7 8 9 10

VHB 6 7 8 9 10

ASYSTOLE 7 8 9 10

VTACH 9 10

PUMP FLOW 0

CALIBRATIONS SHOW

CARDIOPLEGIA FLOW 0

CARDIOPLAGIA DELIVERY CPOFF ANTE RETRO 0 2 4 6 8 10

FLOW FACTOR 0

INI FILE CONTROLS HIDE

TARGET FLOW INDEX 200202

BLOOD CHEMISTRY

paCO2 40, HCO3 24.6, K+ 4.5

saO2 99, GLU 151, NA+ 145

A TEMP 37.5, V TEMP 37.5, LAC 1.3, CA++ 1.25

TIME FACTOR (SEC/SEC) 120

VEN ART W/SVO2 BMU 40

CDI OFF, HMS 3000, HIRS

ART OFF, GEM 3000, HIRS

TIME FACTOR (SEC/SEC) 1

ADVANCE (SECS) 900

SPEECH SERGEON

ARE YOU READY TO PASS THE LINES.

SUBMIT SVO2 0

LV CONTRACTILITY 0 20 40 60 80 100

RV CONTRACTILITY 0 20 40 60 80 100

PATIENT VARIABLES

PATIENT ID 14, PATIENT AGE 14

SEX MALE, PATIENT HT.(CM) 180

PATIENT WT.(KG) 80, HGB 14.0

BLADDER TEMP 15 20 25 30 35 42

URINE OUTPUT (ML) 0 500 1000 1500 2000

DISPLAY GEM BSA 2.00

ARTERIAL VO2 283

X CLAMP VCO2 226

SCENARIO

STEP#	SCENARIO STEP	DURATION
5	ANESTHESIOLOGIST	10
6	PATIENT PREPPED & DRAPED	8
7	BASELINE DATA	35
8	HEPARIN LOADING DOSE	15
9	READY TO PASS THE LINES?	10
10	PASS THE LINES	10

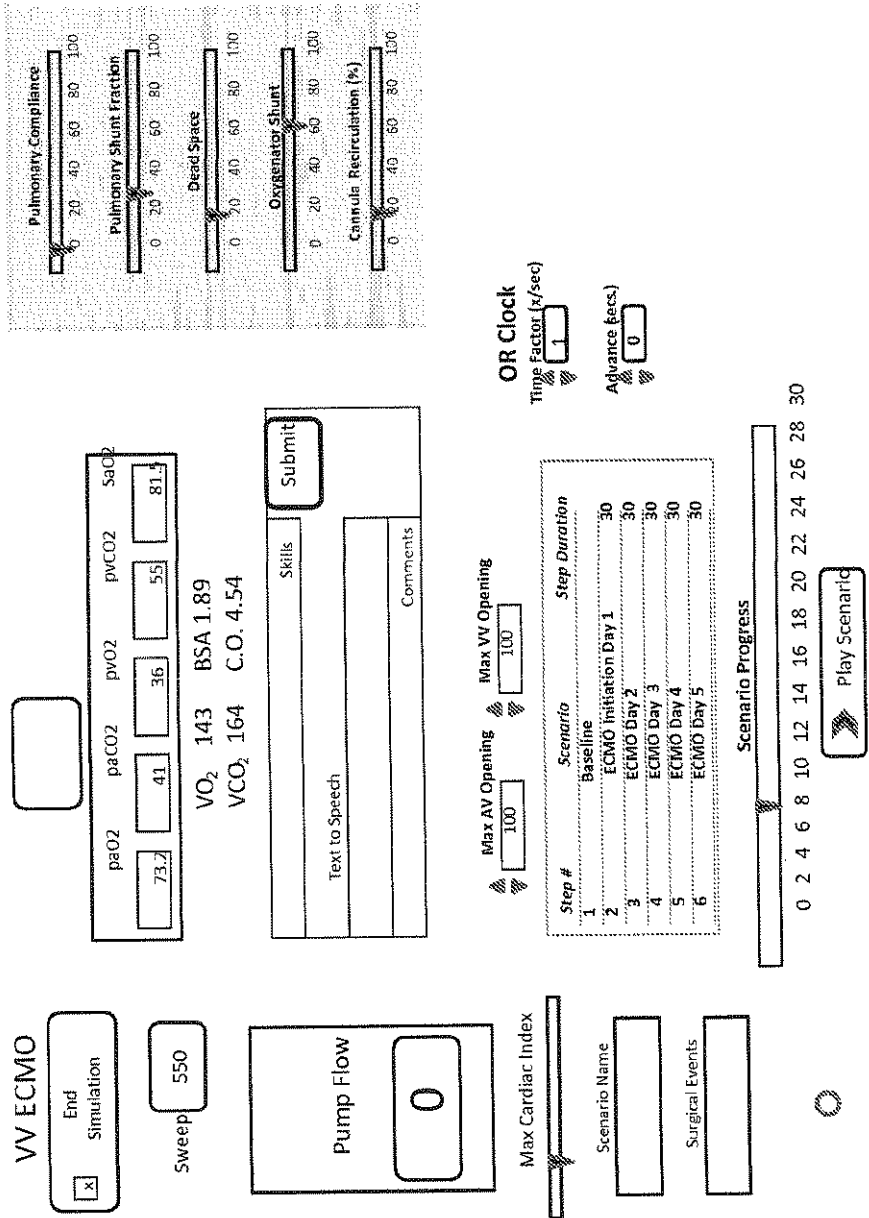
SCENARIO PROGRESS

0 1 2 3 4 5 6 7 8 9 10

Go

FIGURE 5A

INSTRUCTORS / CONTROL PANEL FOR ECMO 500-A



A	B	C	D	E	F	G	H	I	J	K	L	M
Step	Duration	Patient Name	Patient ID	Sex	Patient Age	Patient Ht (cm)	Patient Wt (Kg)	Pump Volume	Pump Heparin	ACT Target Time	Baseline ACT	HDR Slope
1	20	Test Scen	101	FALSE	1	1	1	1001	1	101	100	
2	20	Test Scen	102	TRUE	2	2	2	1002	2	102	101	
3	20	Test Scen	103	FALSE	3	3	3	1003	3	103	102	

Step(i)	Step	Surgical Events	Time Factor Advance (x/sec)	Text to Speech	Voice
1	One	One	1	This is Step one	
2	Two	Two	2	This is Step two	
3	Three	Three	3	This is Step Three	

Step	Anesthetic Factor	RV Contractility	LV Contractility	SVR	Cross Clamp	Deliv Flow	Retrograde Resistance	Bladder Temp	V Temp	A Temp	EKG Choices	Heart Rate	Urine Output
1	0.9	100	100	1250	FALSE	1		37	37	37	0	100	0
2	0.8	90	90	1450	TRUE	2		38	38	38	1	90	1
3	0.7	80	80	1550	FALSE	3		39	39	39	2	80	2

Step	Hgb	paO2	saO2	paCO2	HCO3-	pH	K+	Na+	Ca++	Glu	Lac	Temp	Correct	ACT 1	ACT 2	Time Factor	Start	GEM 3000	ACT Plus	HMS	Spec Med	Monitor	Display Gem	Arterial
1	12	95	97.4	42.6	23.9	7.38	4	145	8.6	98	12	37	100	101	103	1	FALSE	TRUE	TRUE	FALSE	TRUE	ART CO2	TRUE	FALSE
2	16	200	99	45	24	7.42	5	140	7	100	8	38	FALSE	102	102	2	TRUE	FALSE	FALSE	FALSE	FALSE	VEN CO2	FALSE	TRUE
3	12	95	97.4	43.6	23.9	7.38	4	145	8.6	98	12	39	TRUE	103	101	3	FALSE	TRUE	TRUE	FALSE	TRUE	BMU 40	TRUE	FALSE

FIGURE 6

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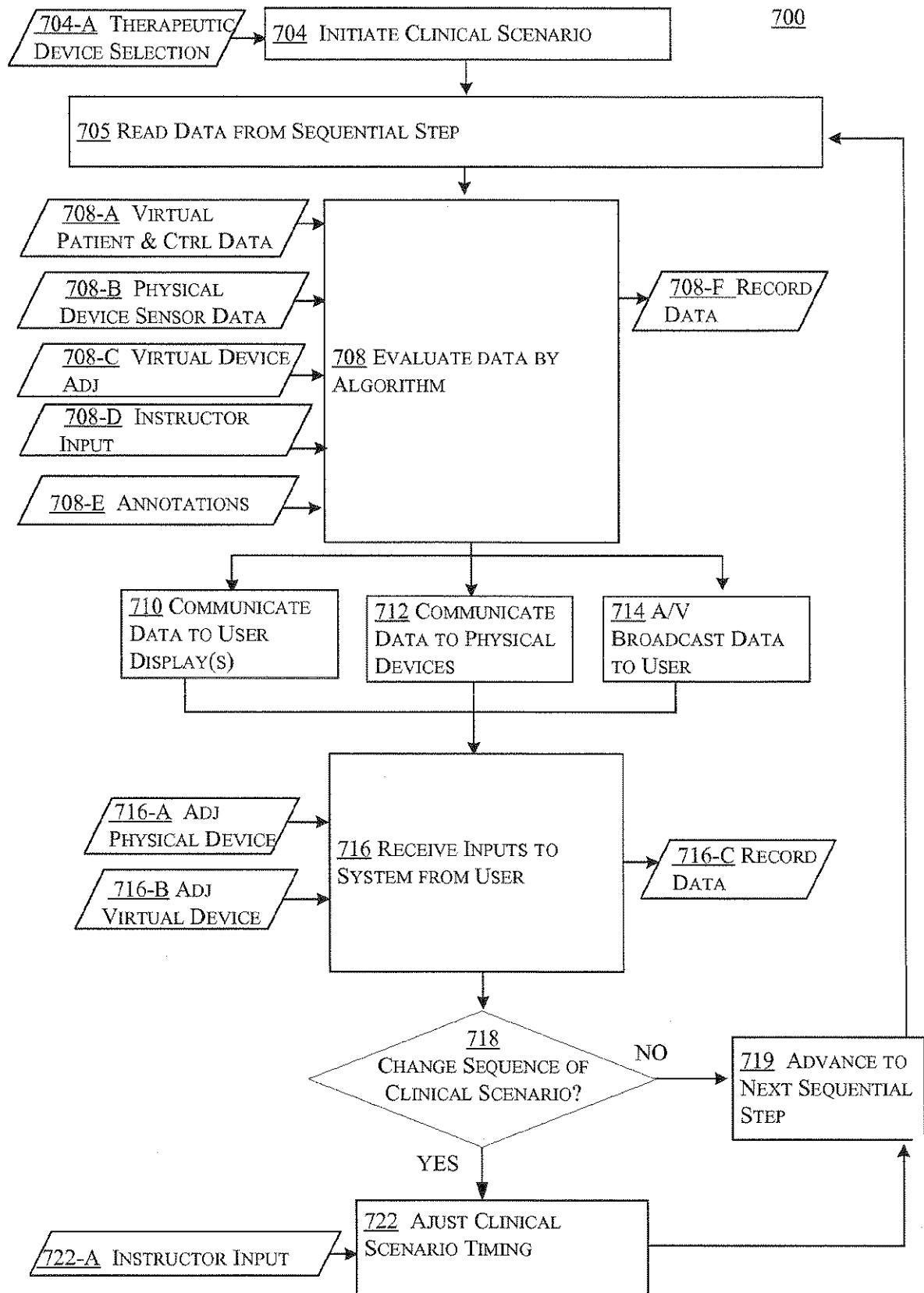


FIGURE 7