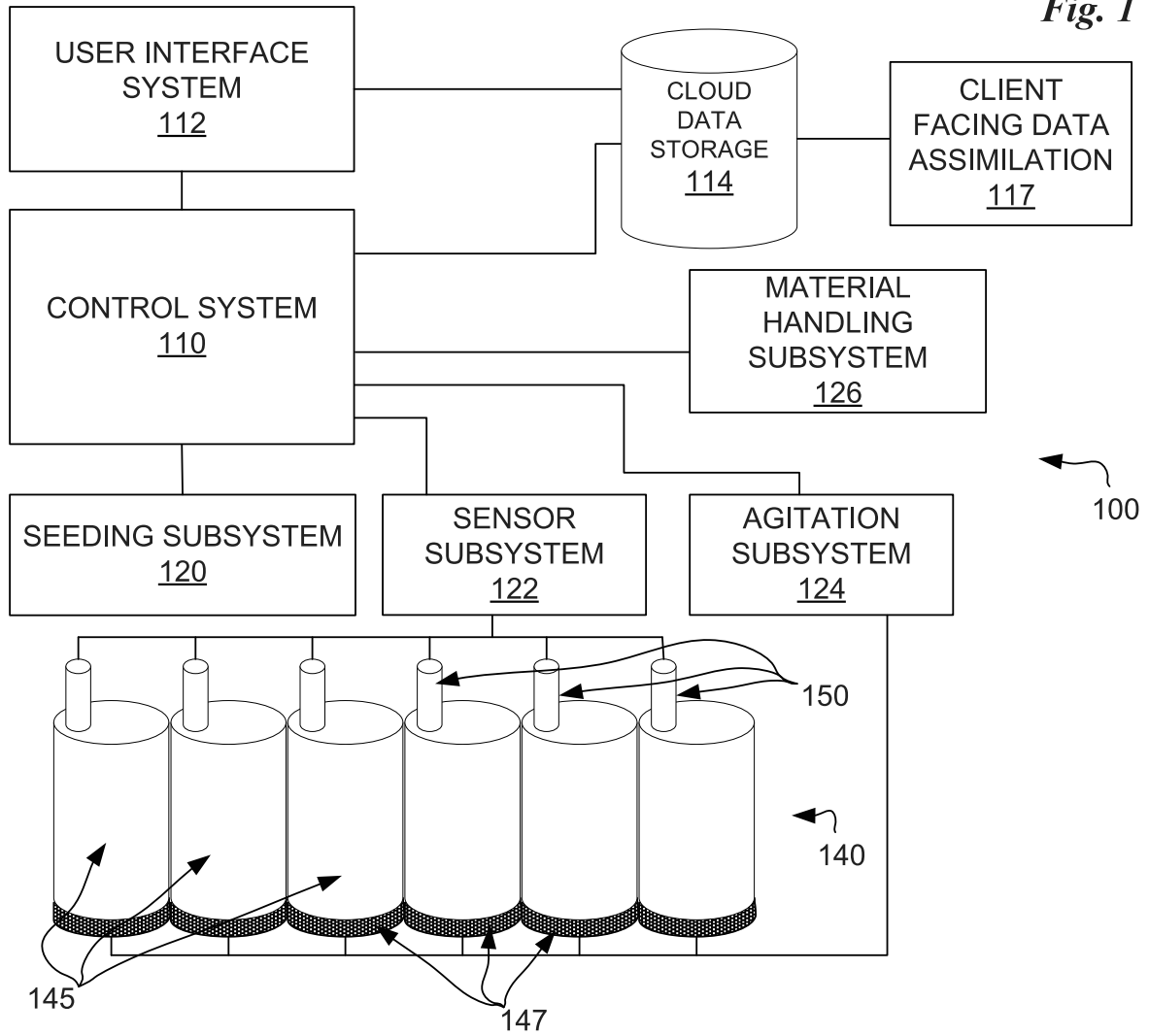
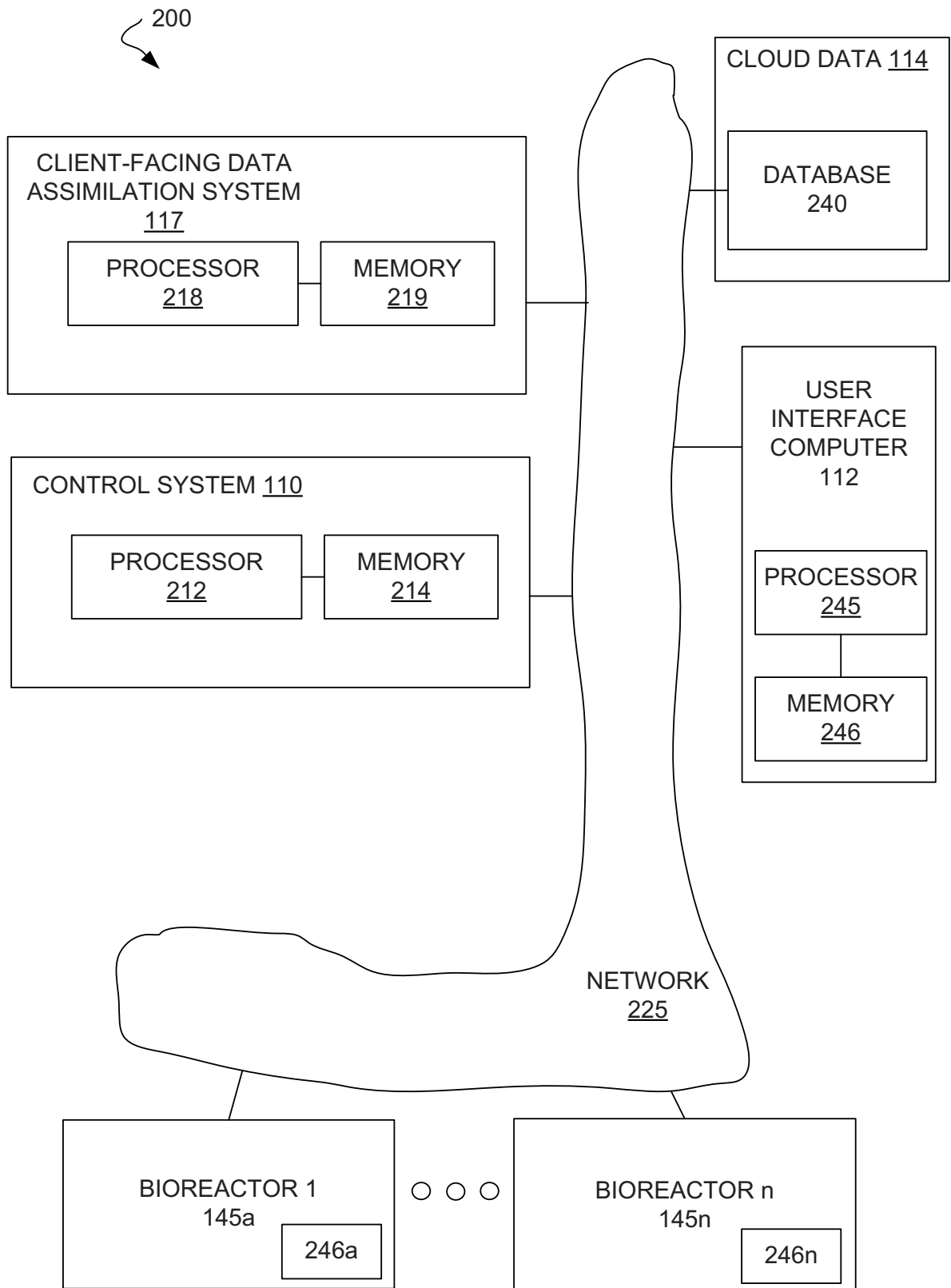


Fig. 1

*Fig. 2*

300

Overview	310	Describe the objectives of your experiment. You can upload any documents here, too	REVIEW
Media	311	Describe the media that will be used in your experiment	REVIEW
Run Conditions	312	Enter and review flask and/or bioreactor run conditions	REVIEW
Feed Strategies	313	Create feed strategies for this experiment and assign them to runs	VISIT
Process Activities	314	Describe sampling, measuring, and manual additions	REVIEW
Shipping	315	Tell us where to send your samples after harvest	REVIEW
Recipe Editor	316	Create and Edit Experiment Recipes	VISIT

Fig. 3

310

Experiment Source (Which previous experiment plan is this sourced from?)

None

Experiment Type

Testing - ignore

Tip: To adjust experiment type, [update the experiment schedule](#)

Objectives

test

411

Changes From Previous Experiment

testing

412

Supporting Documents For Experiment

ADD

413

420

MAIN MENU

311

MEDIA

Fig. 4

4/10

510

311

Add a chemical to the plan..

Name	Purpose	# of Vessels/Flasks	Volume Per Vessel/Flask	Est. Total Volume Σ	Total Volume to Prepare	Prep Location	Comments
> ☐ 14% Ammonium hydroxide CC1614 (2)			0 (mL)	0 (mL)	0 (mL)	Culture	
> ☐ Ammonium Hydroxide 14% - Culture ... (2)			0 (mL)	0 (mL)	0 (mL)	Culture	
> ☐ Ammonium sulfate stock solution(30... (2)			0 (mL)	0 (mL)	0 (mL)	Culture	

511

513

512

Fig. 5

601

312

602

SEED FLASK 1

PRODUCTION REACTOR 2

Stage Duration

18 hr(s)

Tip: To adjust stage duration, [update the experiment schedule](#)

Antifoam Strategy

What antifoam strategies should we use for this stage?

Overnight Hold

What overnight hold instructions do we need for this stage?

Description

B I U < > 1 2 99 ☰ ☷

Please provide a description for this stage

End of run reactor cooldown instructions

What instructions do we need for the end of this run?

Harvest Instructions

What specific harvest instructions do we need?

ADD COLUMN

	Condition	Inoculum Source	Recipe	Strain	Organism	Batch Media	Pre Inoc Batch Media Volume (mL)	Batch Media Volume (mL)	Inoculum (mL)	Min Air Flow (sccr)
Run 1										
Run 2										
Run 3										
Run 4										
Run 5										
Run 6	621	622	623	624	625	626	627	628	629	630
Run 7										
Run 8										

620

Fig. 6

New Recipe  710

CONSTANTS AND VARIABLES 740

Constants   745

2 Defined

Name	Value	Units	
pH	7	ph	X
DO_setpoint	60	%	X

Variables   742

0 Defined

Variable Name

No Rows To Show

316

720

Start Temperature Control  X

Setpoint # ^ 37 C

Start DO Control (default PID)  X

2.5+

Setpoint # ^ %DO

Agitation rate # ^ rpm

Overlay rate # ^ sccm

Sparge rate # ^ sccm

Set pH Setpoint  X

Setpoint # ^ pH

Basic deadband # ^

Acidic deadband # ^

701

BACK TO LIST

SAVE

PUBLISH

FUNCTION LIBRARY  703

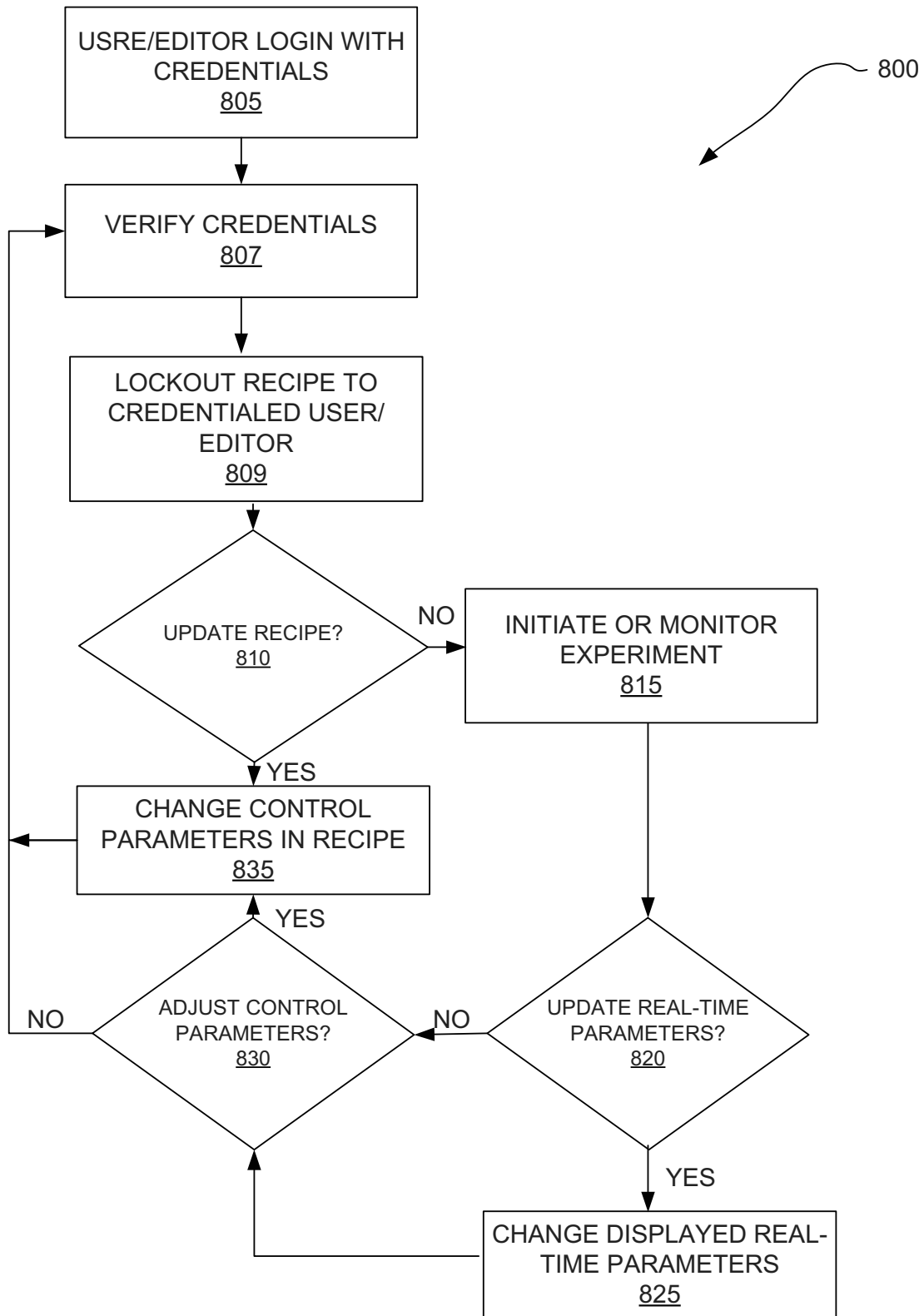
Functions  730

Drag and drop functions into the canvas to add them to your recipe.

Controllers  ^

- Stop DO Control
- Stop pH Control
- Stop Temperature Control
- Set Temperature Setpoint
- Start Temperature Control
- Start Temperature Shift
- Set pH Setpoint
- Start pH Control: CO2 and Base (default pid)

Fig. 7

**Fig. 8**

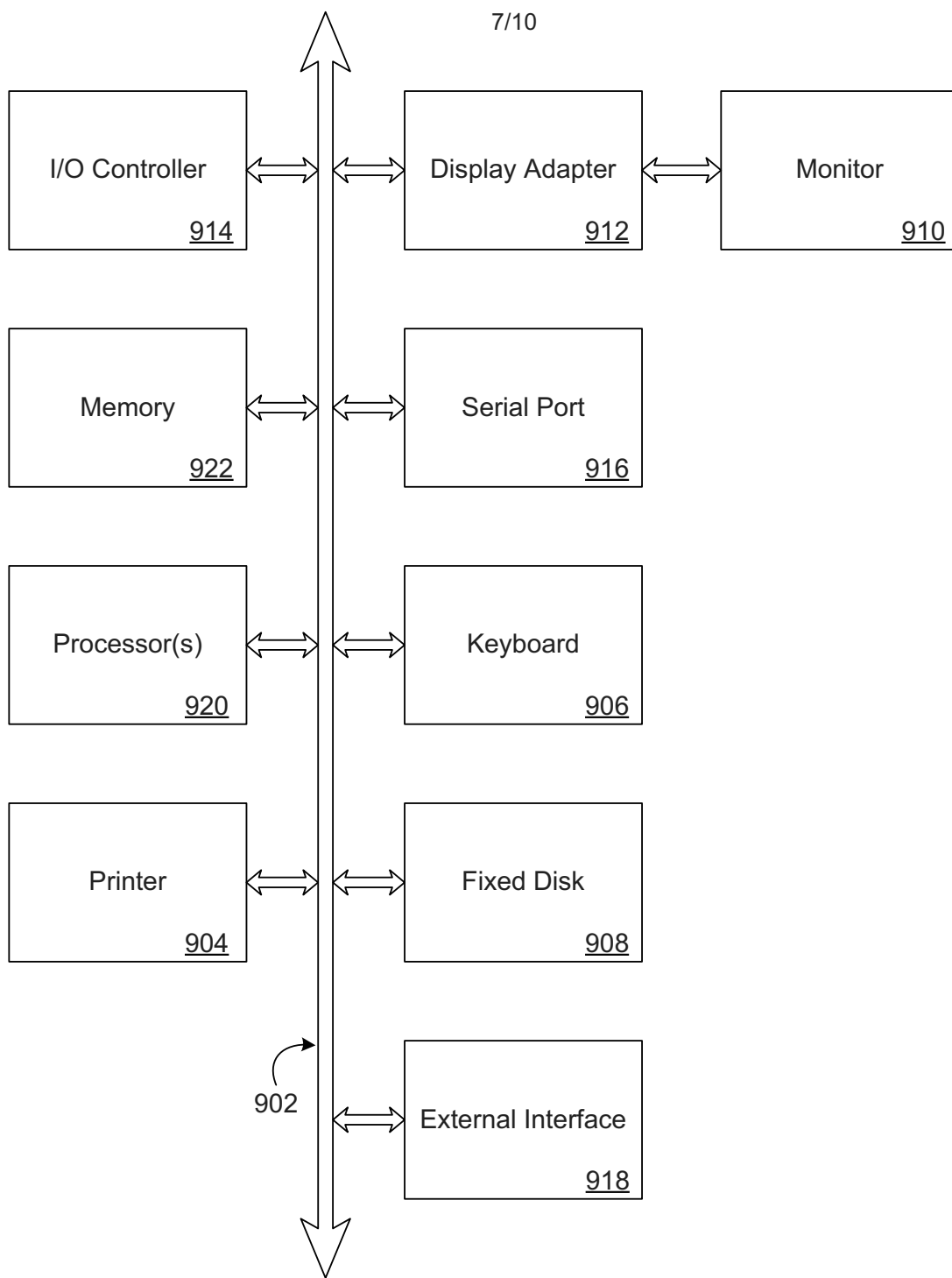
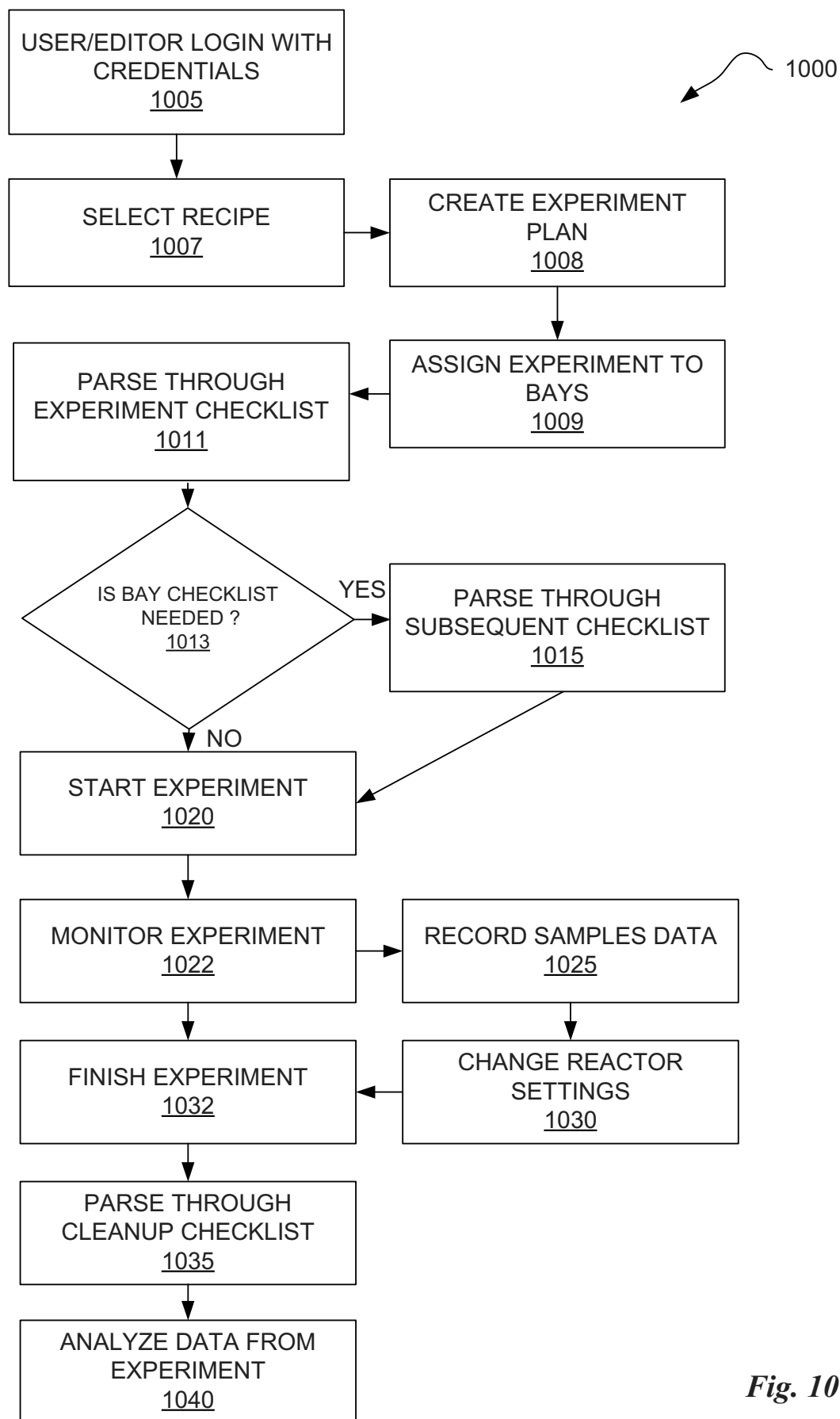


Fig. 9

**Fig. 10**

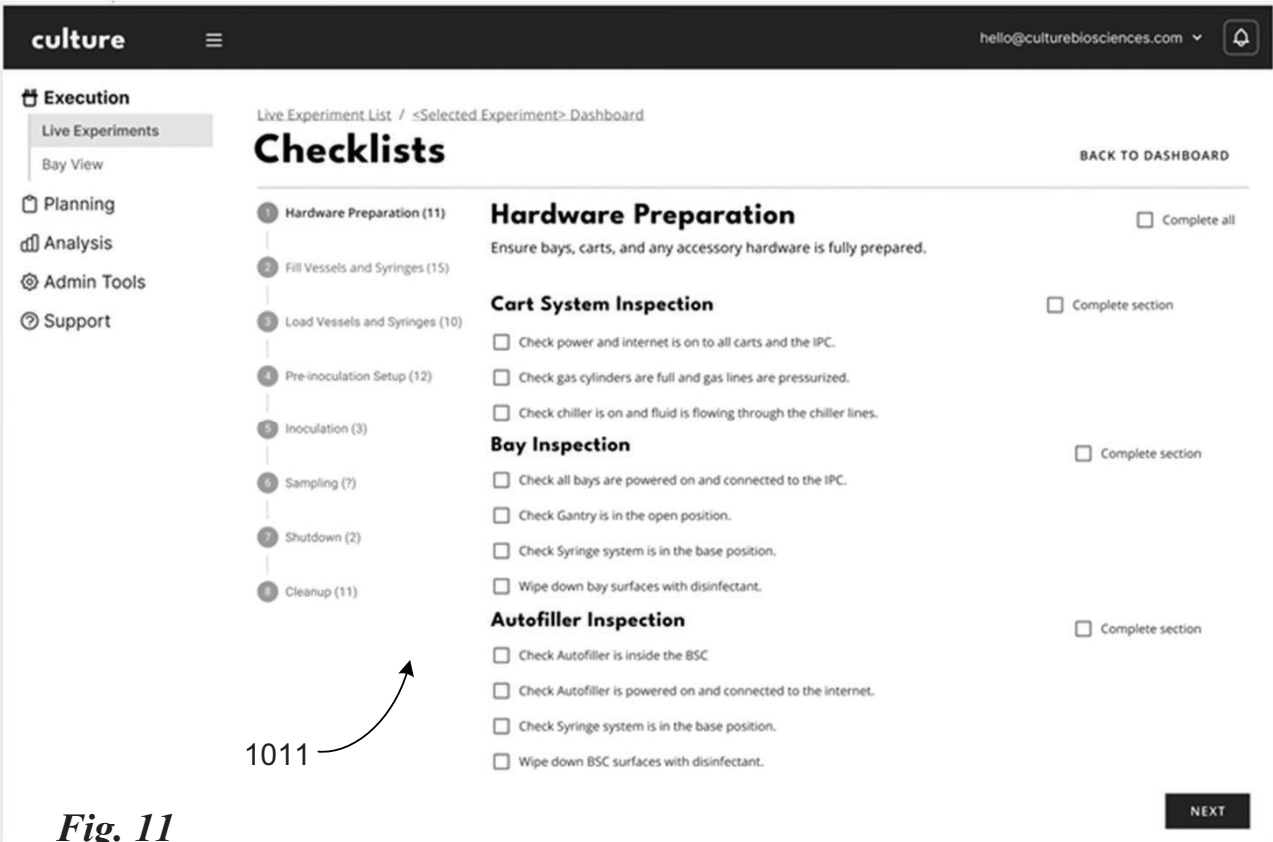


Fig. 11

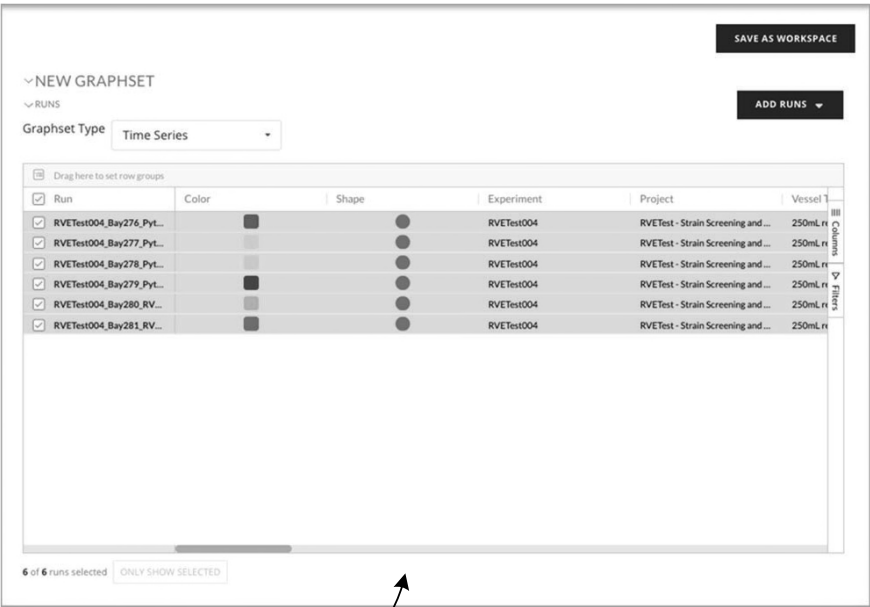
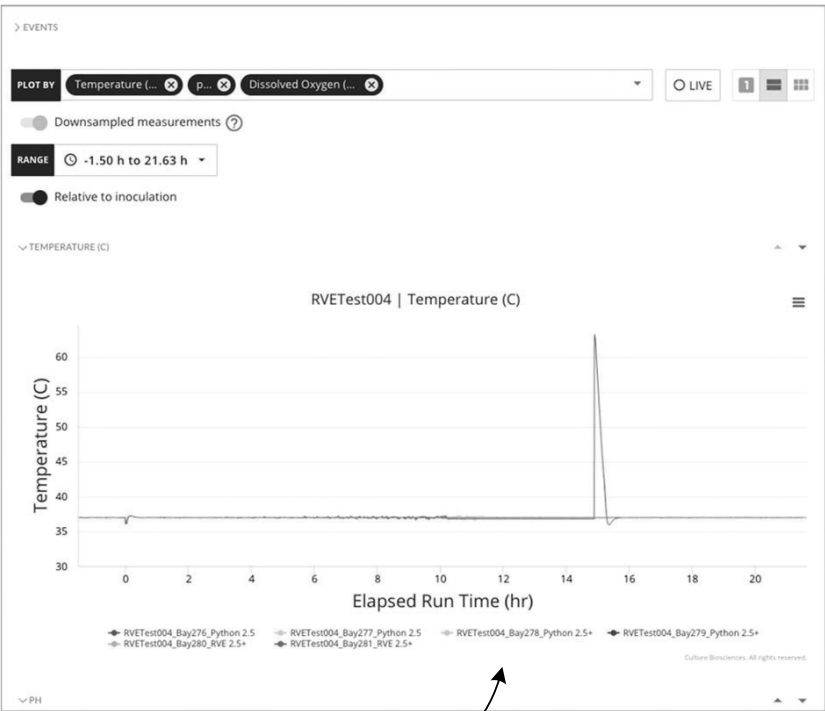


Fig. 12

Fig. 13



1025

Live Controls

Page last updated 1 minute ago - refresh to see current values.

REVIEW

Process Controls

DO

Show advanced

Run	DO enabled	Process Value (%)	DO Setpoint (NDOS)	Agitation setpoint	controller/ib/ctrl_max_rpm (BPM)	controller/ib/ctrl_min_rpm (BPM)	controller/ib/ctrl_max_acon (SCCM)	controller/ib/ctrl_min_acon (SCCM)	O2 max score	O2 min score
RVETest004_Bay276_Python 2.5	Yes	45.4015	40	500	500	500	4	4	50	0
RVETest004_Bay277_Python 2.5	Yes	45.3408	40	500	500	500	4	4	50	0
RVETest004_Bay278_Python 2.5+	Yes	53.3064	40	500	500	500	4	4	50	0
RVETest004_Bay279_Python 2.5+	Yes	51.8458	40	500	500	500	4	4	50	0
RVETest004_Bay280_RVE 2.5+	Yes	44.3548	40	500	500	500	4	4	50	0
RVETest004_Bay281_RVE 2.5+	Yes	44.0245	40	500	500	500	4	4	50	0

pH

Show advanced

Run	pH Enabled	Process Value	pH Setpoint	Base acids (mM)	CO2 enabled	CO2 max score	CO2 min score
RVETest004_Bay276_Python 2.5	Yes	7.038	7	0.05	1	10	0
RVETest004_Bay277_Python 2.5	Yes	7.038	7	0.05	1	10	0
RVETest004_Bay278_Python 2.5+	Yes	7.039	7	0.05	1	10	0
RVETest004_Bay279_Python 2.5+	Yes	7.035	7	0.05	1	10	0
RVETest004_Bay280_RVE 2.5+	Yes	7.04	7	0.05	1	10	0
RVETest004_Bay281_RVE 2.5+	Yes	7.037	7	0.05	1	10	0

Feed

Temperature

Show advanced

Run	Temperature Enabled	Process Value (C)	Temp Setpoint (C)
RVETest004_Bay276_Python 2.5	Yes	37.0122	37
RVETest004_Bay277_Python 2.5	Yes	37.005	37
RVETest004_Bay278_Python 2.5+	Yes	36.9944	37
RVETest004_Bay279_Python 2.5+	Yes	36.982	37
RVETest004_Bay280_RVE 2.5+	Yes	36.9903	37
RVETest004_Bay281_RVE 2.5+	Yes	37.005	37

1030

Fig. 14