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FIG. 1

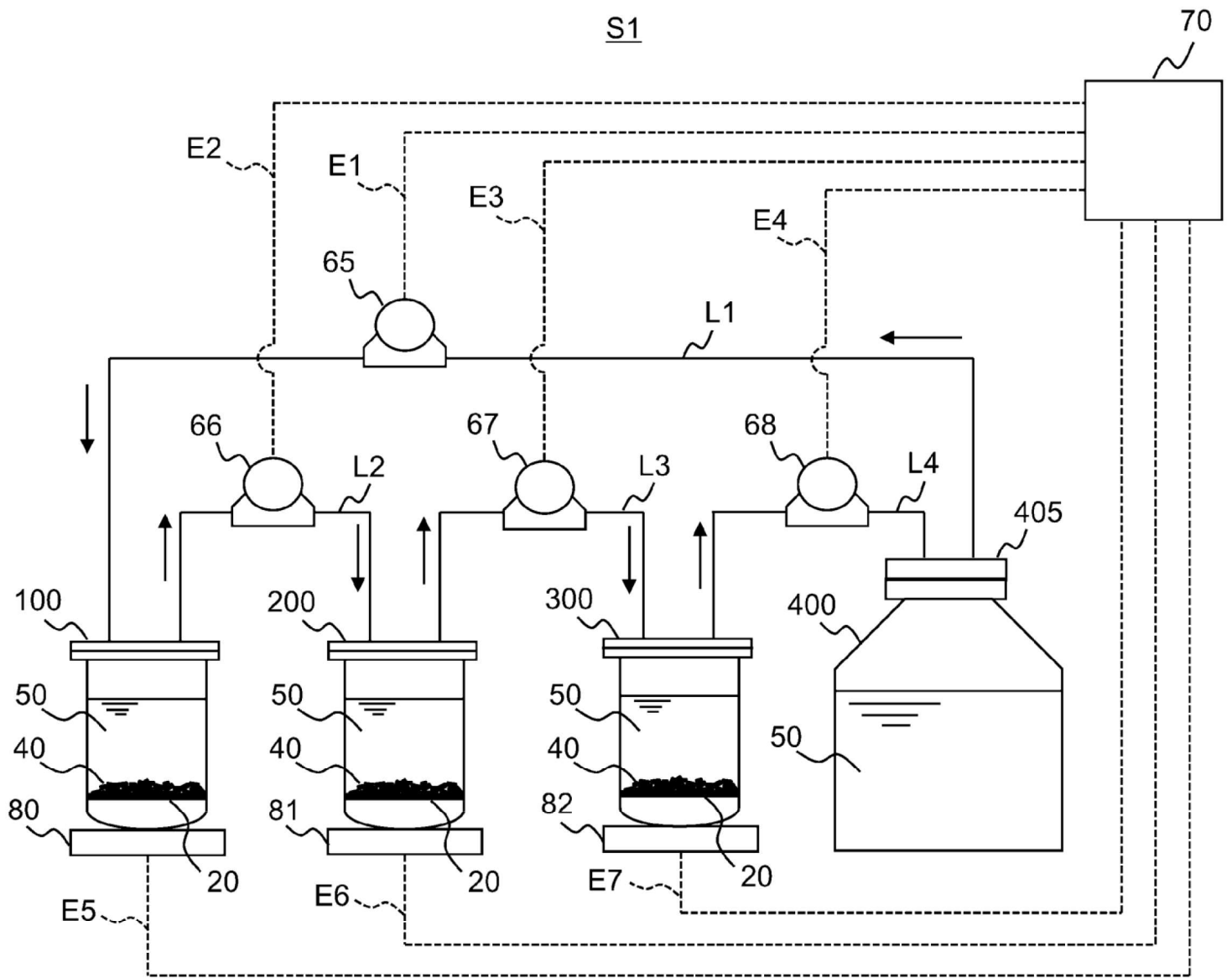


FIG. 2

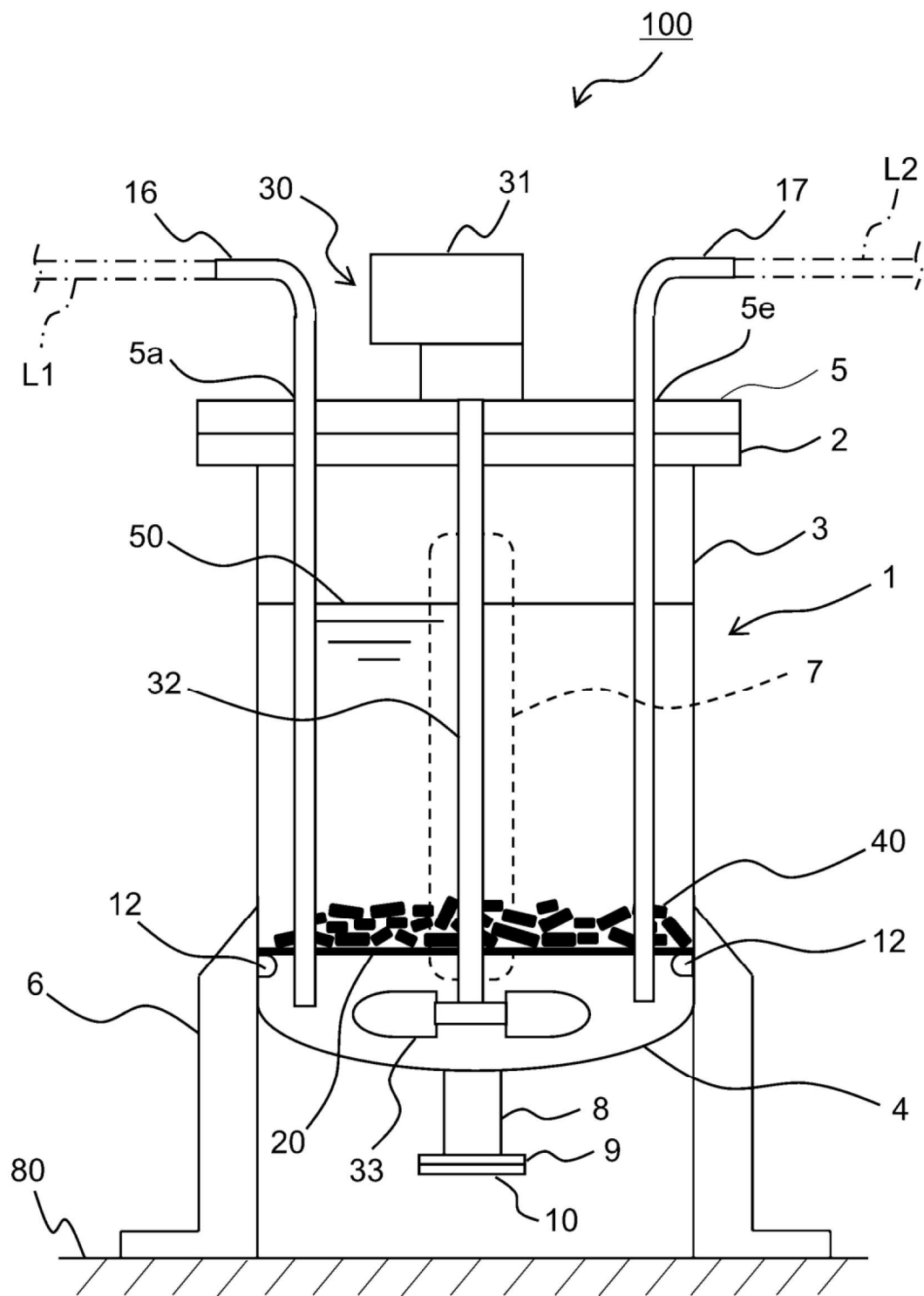


FIG. 3

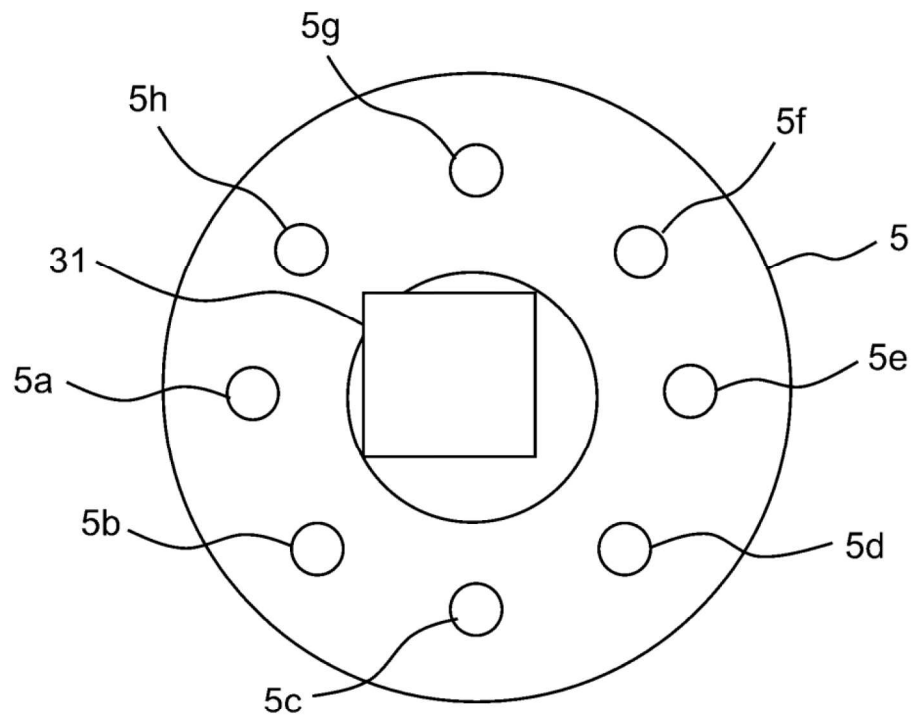


FIG. 4

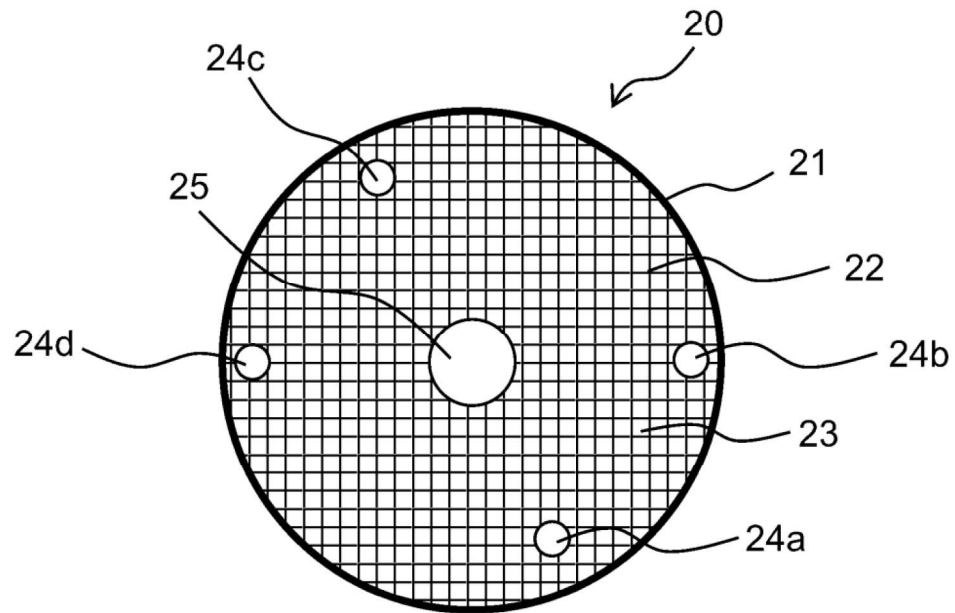
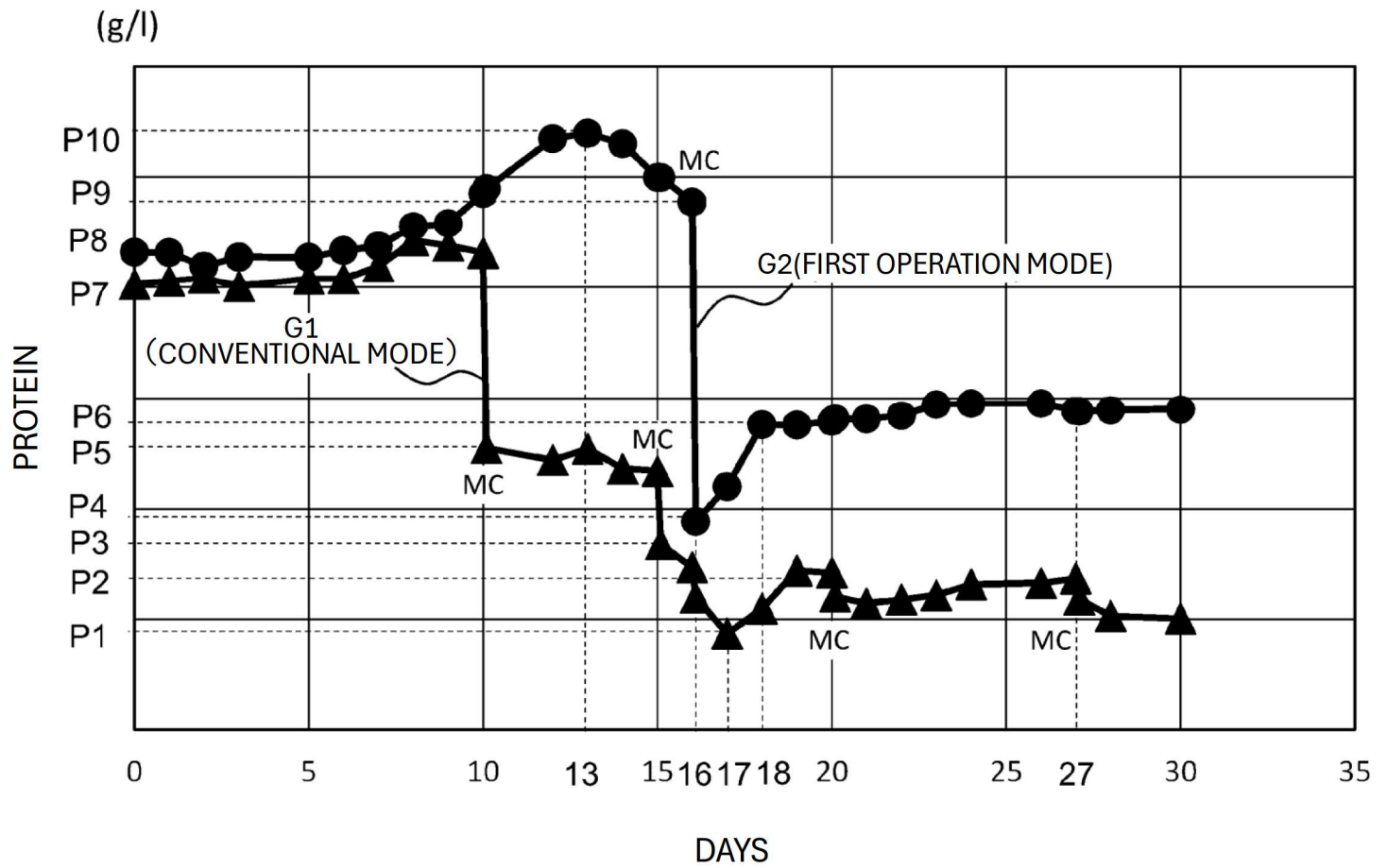


FIG. 5



(a) CELL GROWTH

	AMOUNT OF CELLS GENERATED(cell/glu-g)
CONVENTIONAL MODE	4.18 E+06
FIRST OPERATION MODE	1.90 E+08

(b) CONVENTIONAL MODE

	INITIAL VALUE	DAY 30
NUMBER OF LIVER CELLS	3.36 E+08	4.92 E+09
GLUCOSE CONSUMPTION(g)	0	37.4

(c) FIRST OPERATION MODE

	INITIAL VALUE	DAY 30
NUMBER OF LIVER CELLS	3.51 E+08	3.72 E+09
GLUCOSE CONSUMPTION(g)	0	17.7

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FIG. 7

