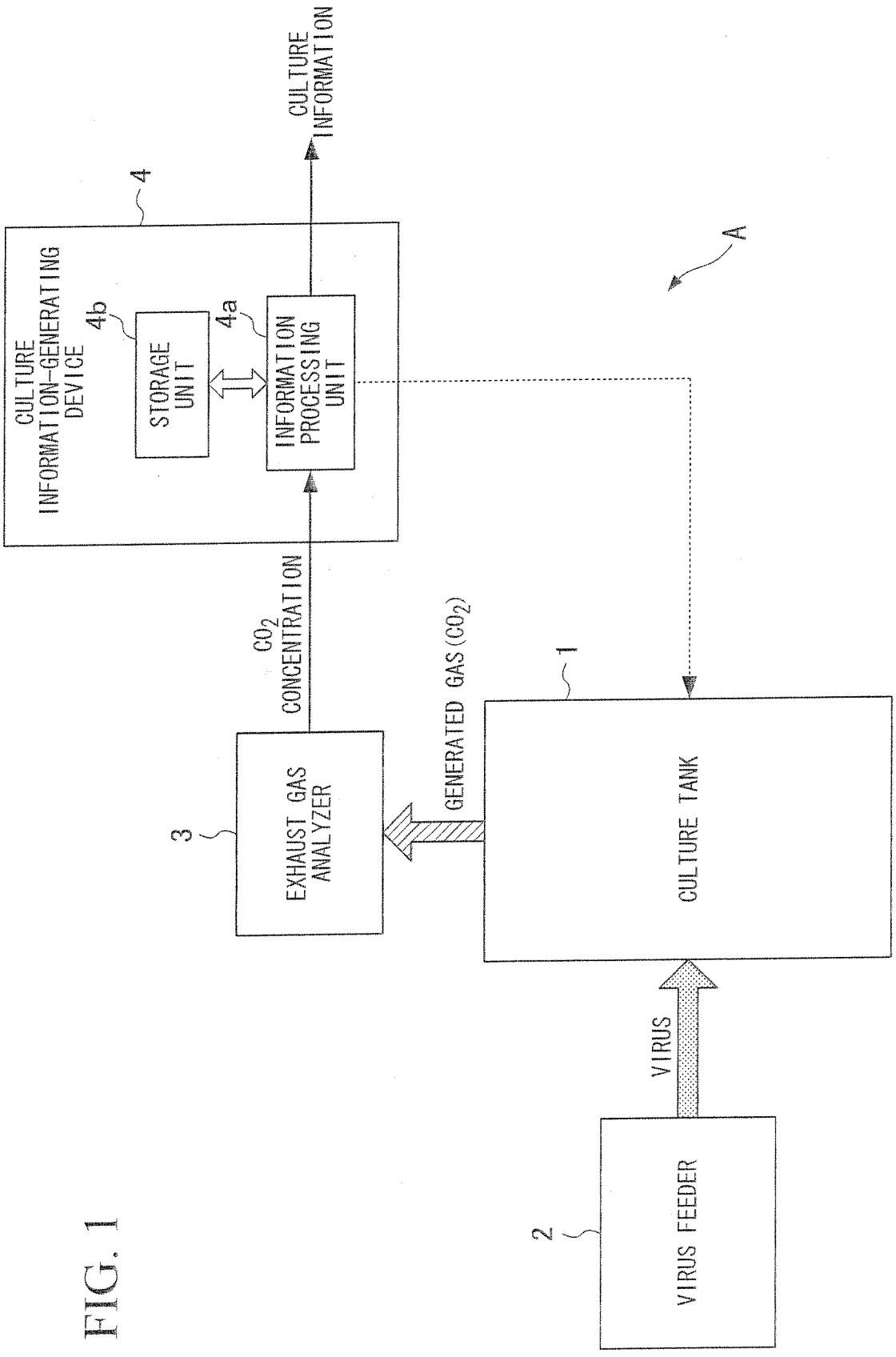

A
1
CULTURE TANK
2
VIRUS FEEDER
VIRUS
3
EXHAUST GAS ANALYZER
GENERATED GAS ($CO_2$)
$CO_2$ CONCENTRATION
4
CULTURE INFORMATION-GENERATING DEVICE
4a
INFORMATION PROCESSING UNIT
4b
STORAGE UNIT
CULTURE INFORMATION

FIG. 1

FIG. 2

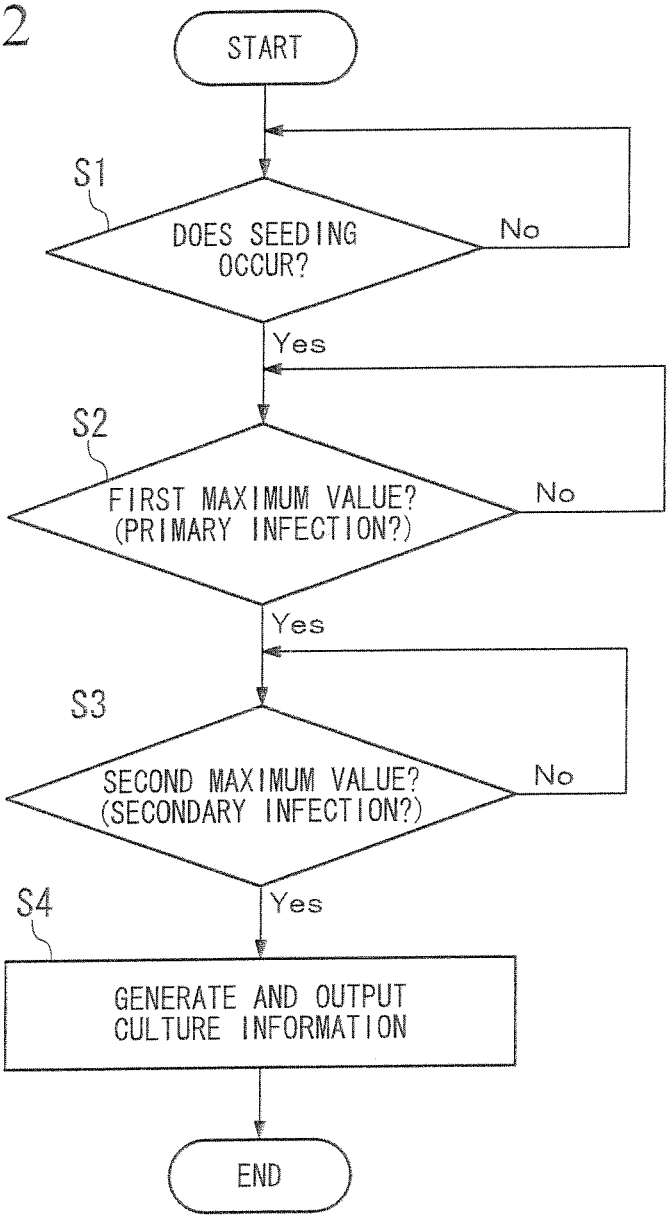

START
S1
DOES SEEDING OCCUR?
No
Yes
S2
FIRST MAXIMUM VALUE? (PRIMARY INFECTION?)
No
Yes
S3
SECOND MAXIMUM VALUE? (SECONDARY INFECTION?)
No
Yes
S4
GENERATE AND OUTPUT CULTURE INFORMATION
END

FIG. 3

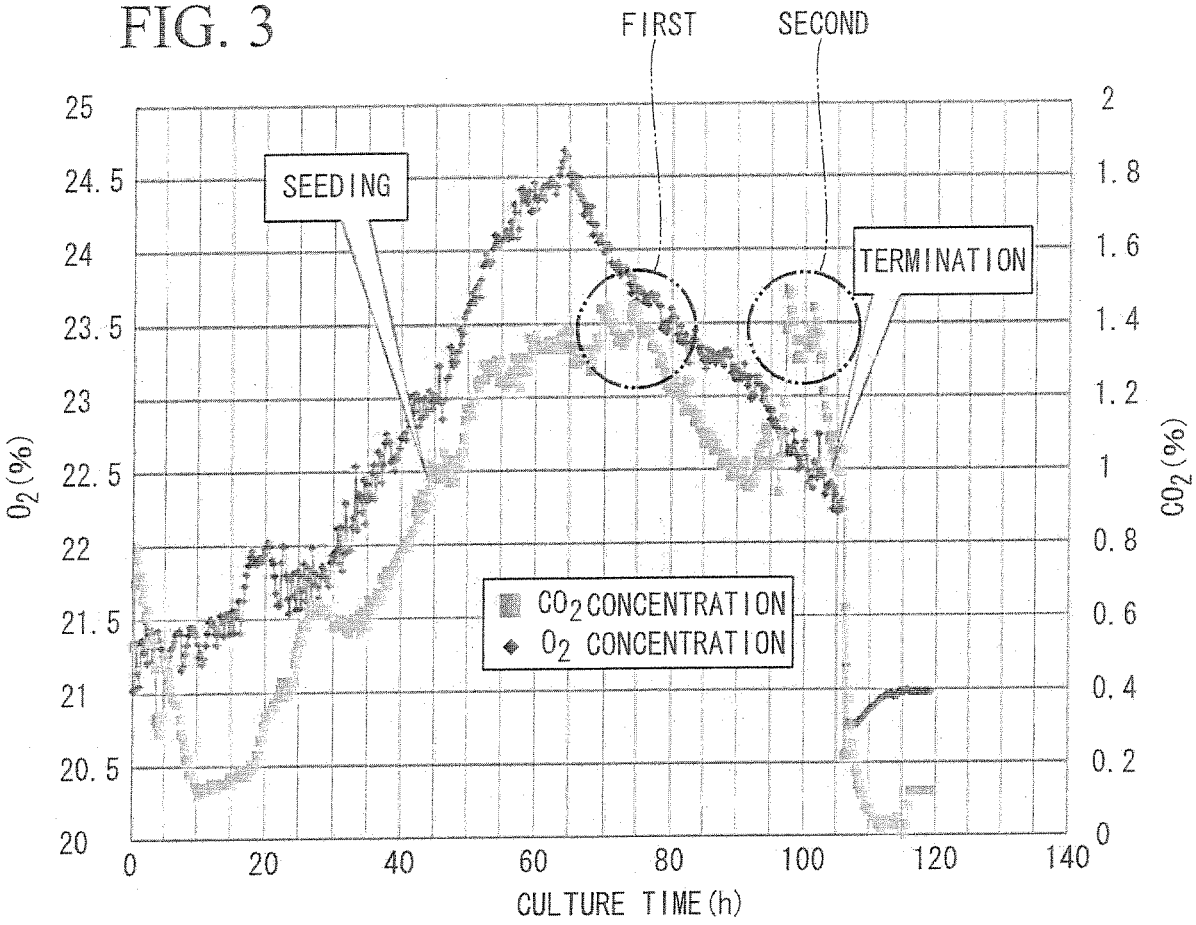
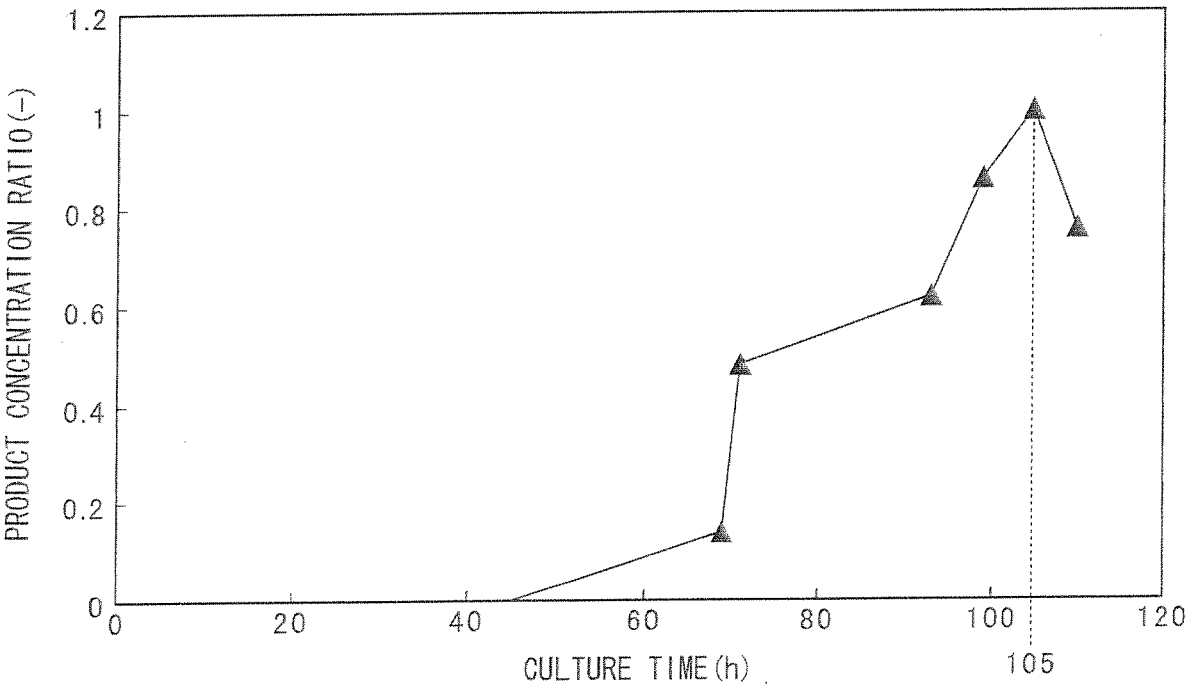

FIRST
SECOND
SEEDING
TERMINATION
$CO_2$ CONCENTRATION
$O_2$ CONCENTRATION
$O_2$ (%)
$CO_2$ (%)
CULTURE TIME (h)
25
24.5
24
23.5
23
22.5
22
21.5
21
20.5
20
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
0
20
40
60
80
100
120
140

FIG. 4


PRODUCT CONCENTRATION RATIO (-)
CULTURE TIME (h)
1.2
1
0.8
0.6
0.4
0.2
0
0
20
40
60
80
100
120
105