Diagrams:

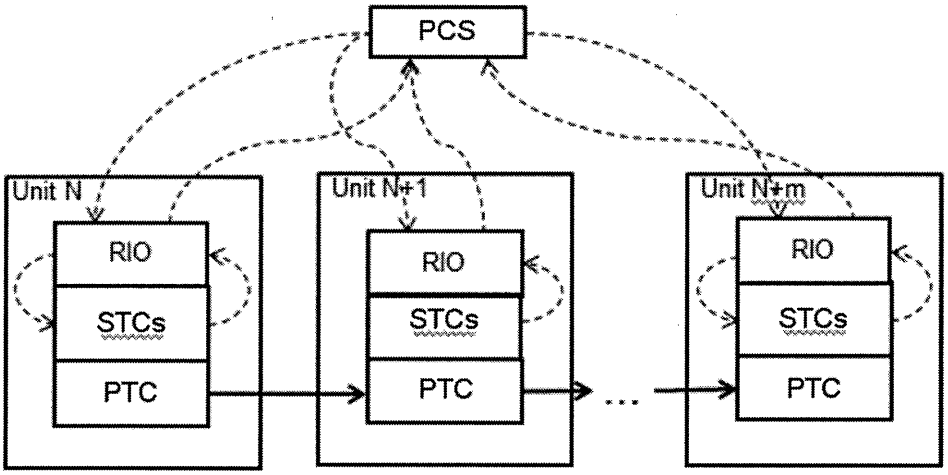

Fig. 1

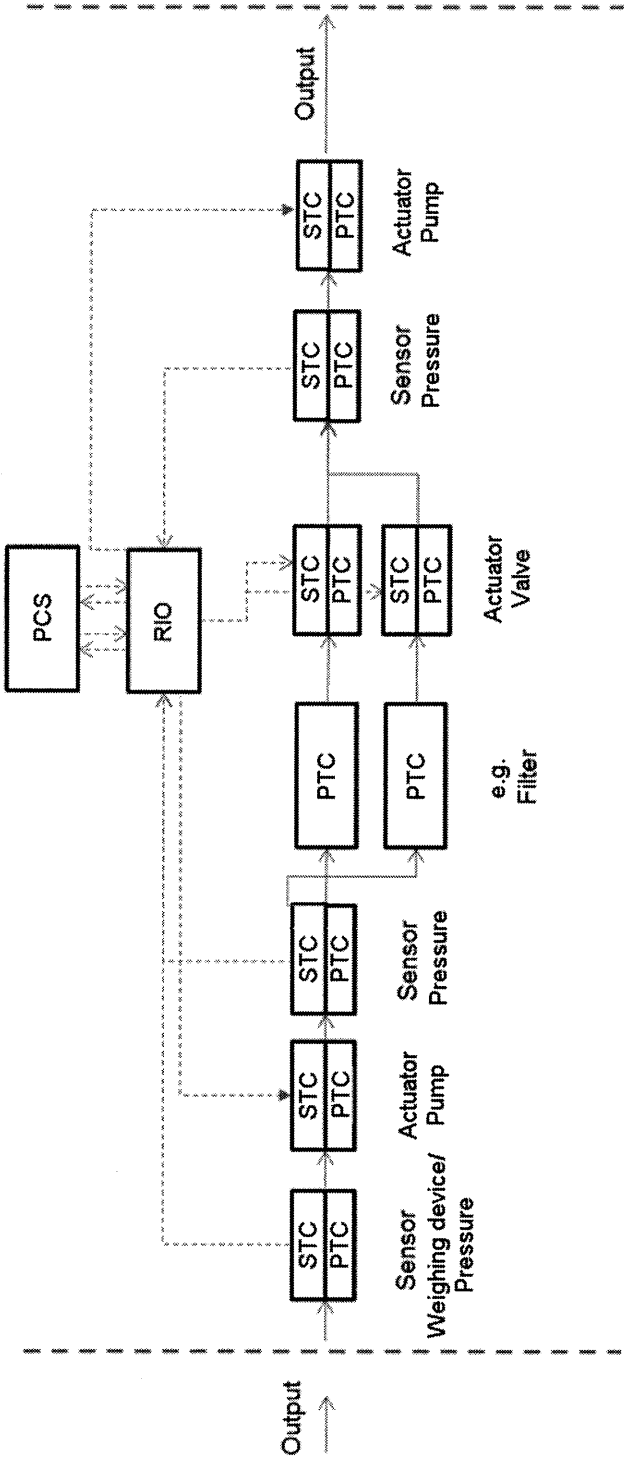
Output
STC
PTC
Actuator
Pump
Sensor
Pressure
PCS
RIO
Actuator
Valve
e.g.
Filter
Sensor
Weighing device/
Pressure
Output

Fig. 2

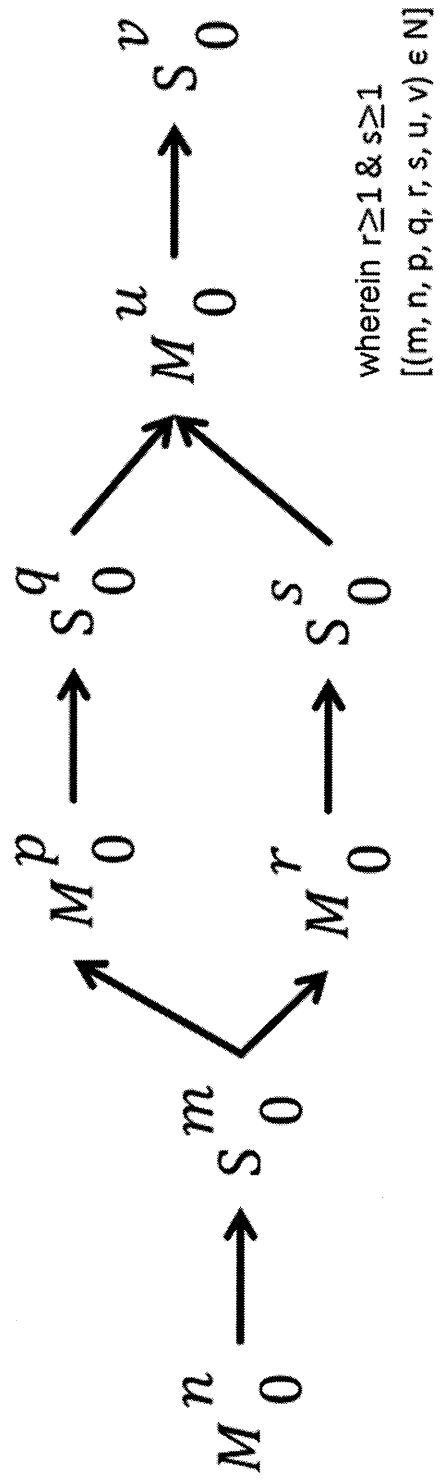

Fig. 3

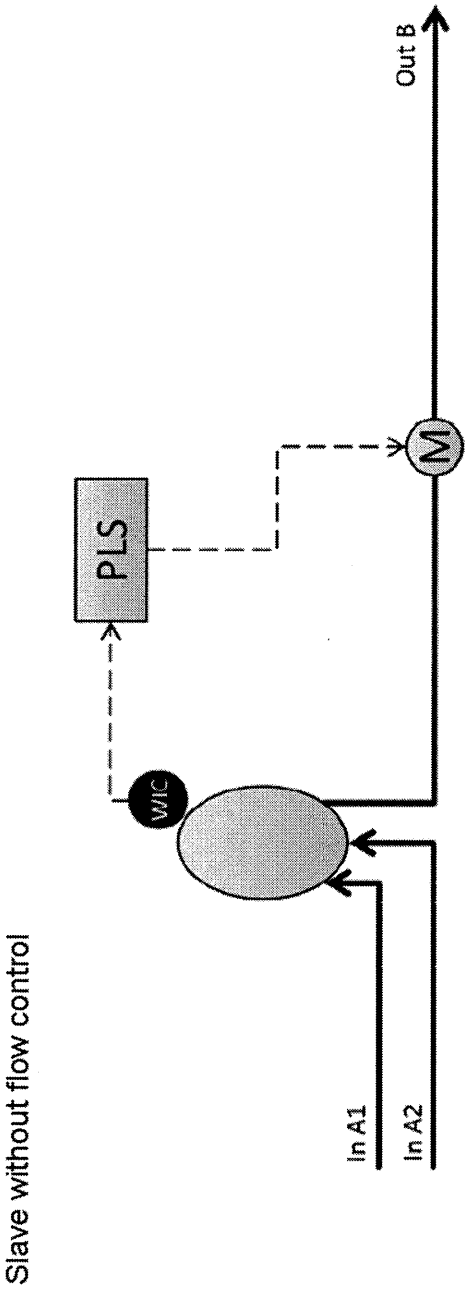

Fig. 4A

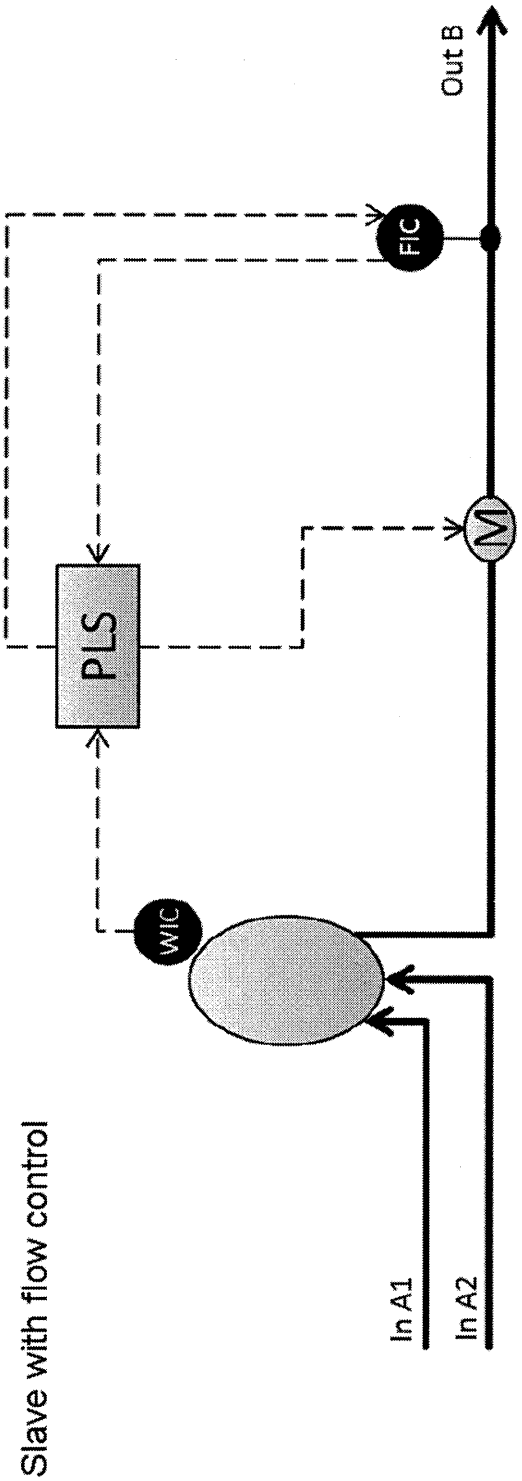

Fig. 4B

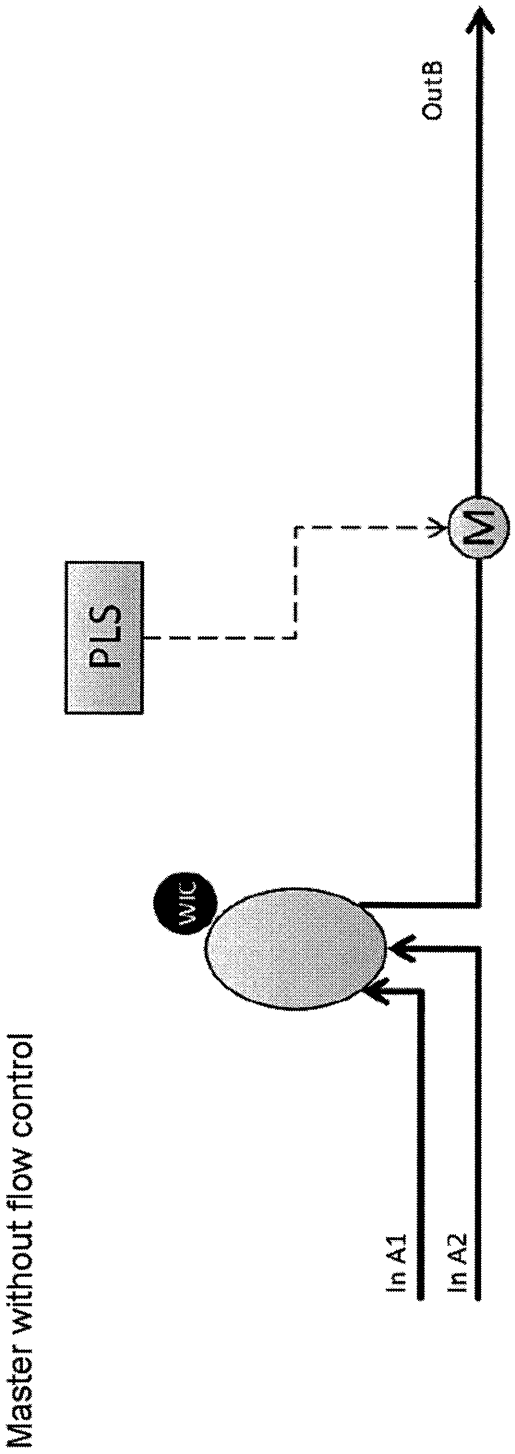

Fig. 4C

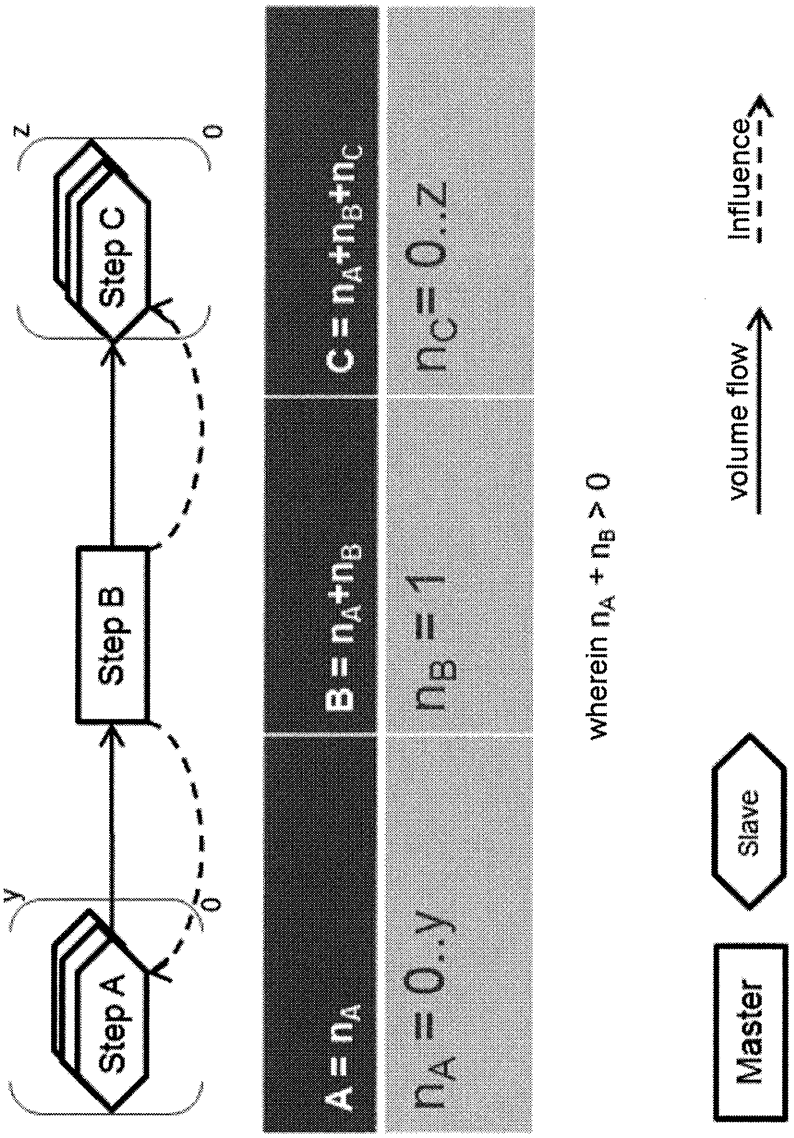
Step A
Step B
Step C
y
0
z
0
A = n_A
B = n_A+n_B
C = n_A+n_B+n_C
n_A = 0..y
n_B = 1
n_C = 0..z
wherein n_A + n_B > 0
Master
Slave
volume flow
Influence

Fig. 5

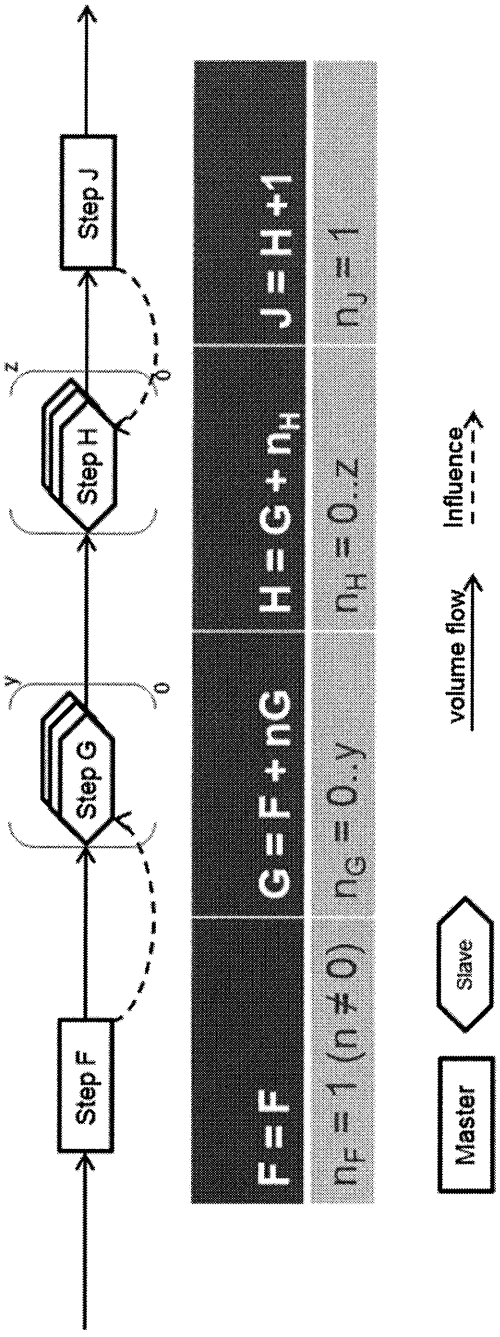
Step F
Step G
Step H
Step J
y
0
z
0
F=F
G=F+nG
H=G+nH
J=H+1
nF = 1 (n ≠ 0)
nG = 0..y
nH = 0..z
nJ = 1
Master
Slave
volume flow
Influence

Fig. 6

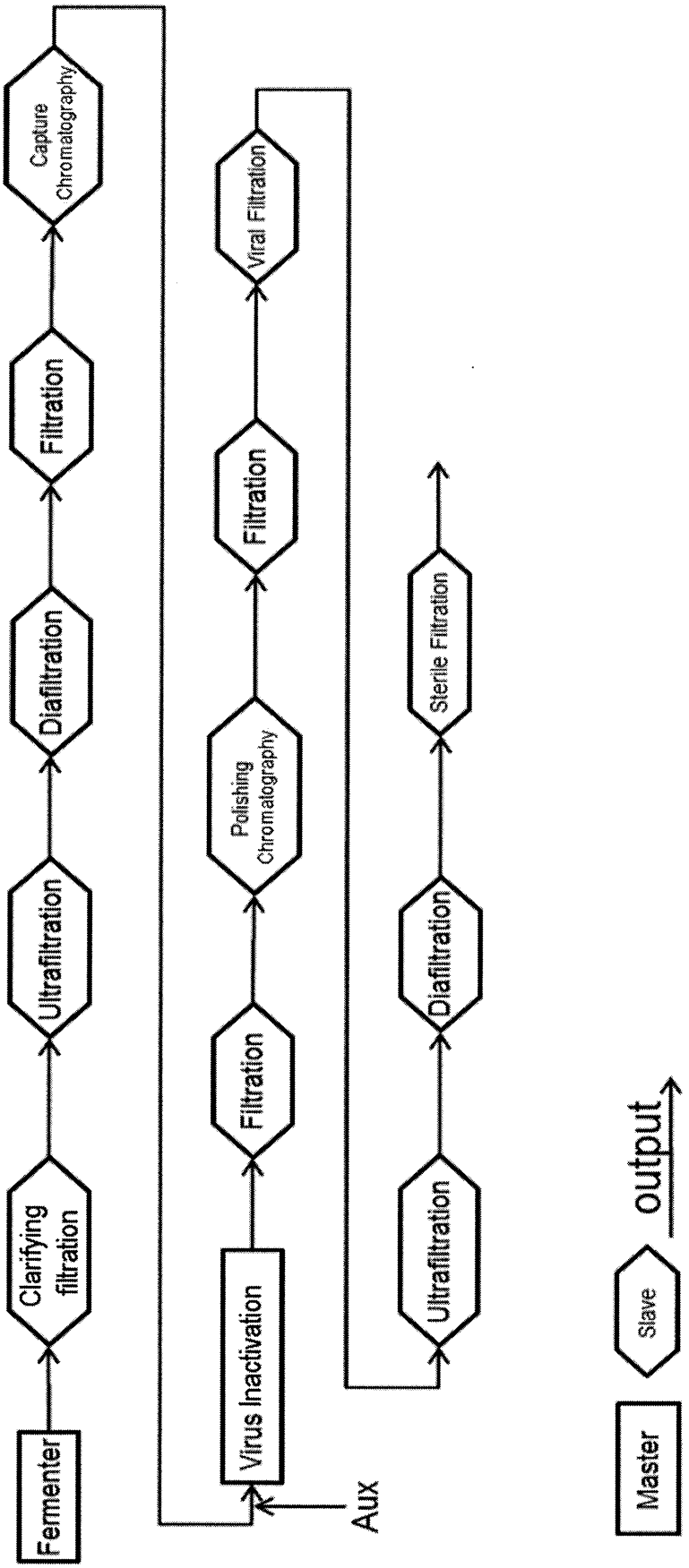
Fermenter
Clarifying filtration
Ultrafiltration
Diafiltration
Filtration
Capture Chromatography
Virus Inactivation
Filtration
Polishing Chromatography
Filtration
Viral Filtration
Aux
Ultrafiltration
Diafiltration
Sterile Filtration
Master
Slave
output

Fig. 7

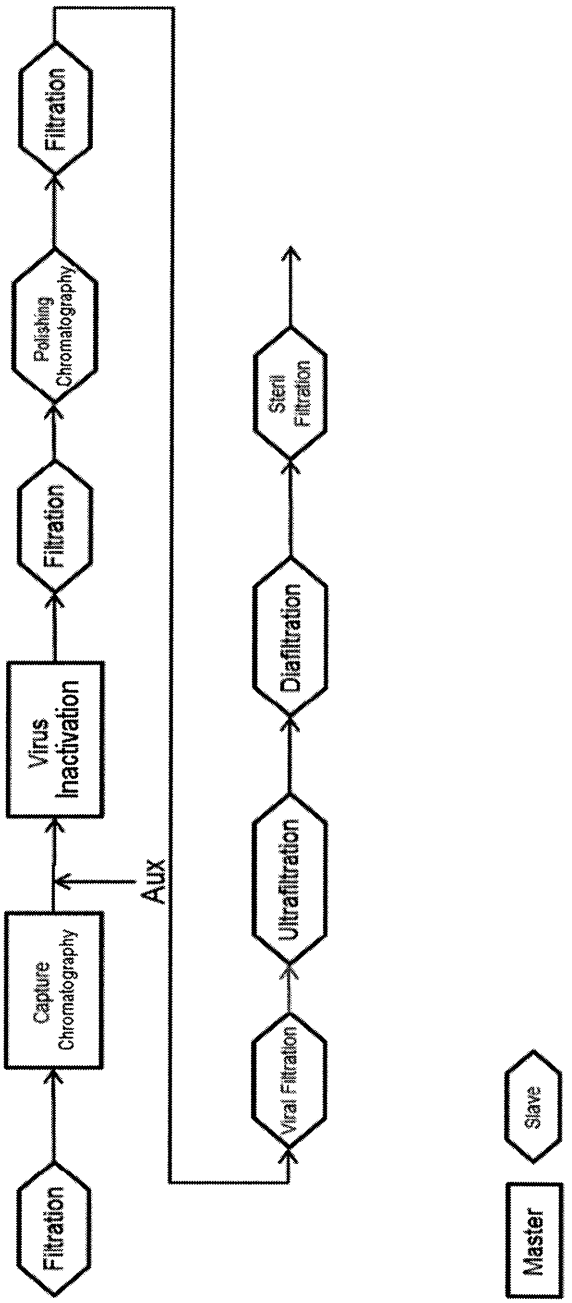
Filtration
Capture Chromatography
Aux
Virus Inactivation
Filtration
Polishing Chromatography
Filtration
Viral Filtration
Ultrafiltration
Diafiltration
Steril Filtration
Slave
Master

Fig. 8