FIG. 1

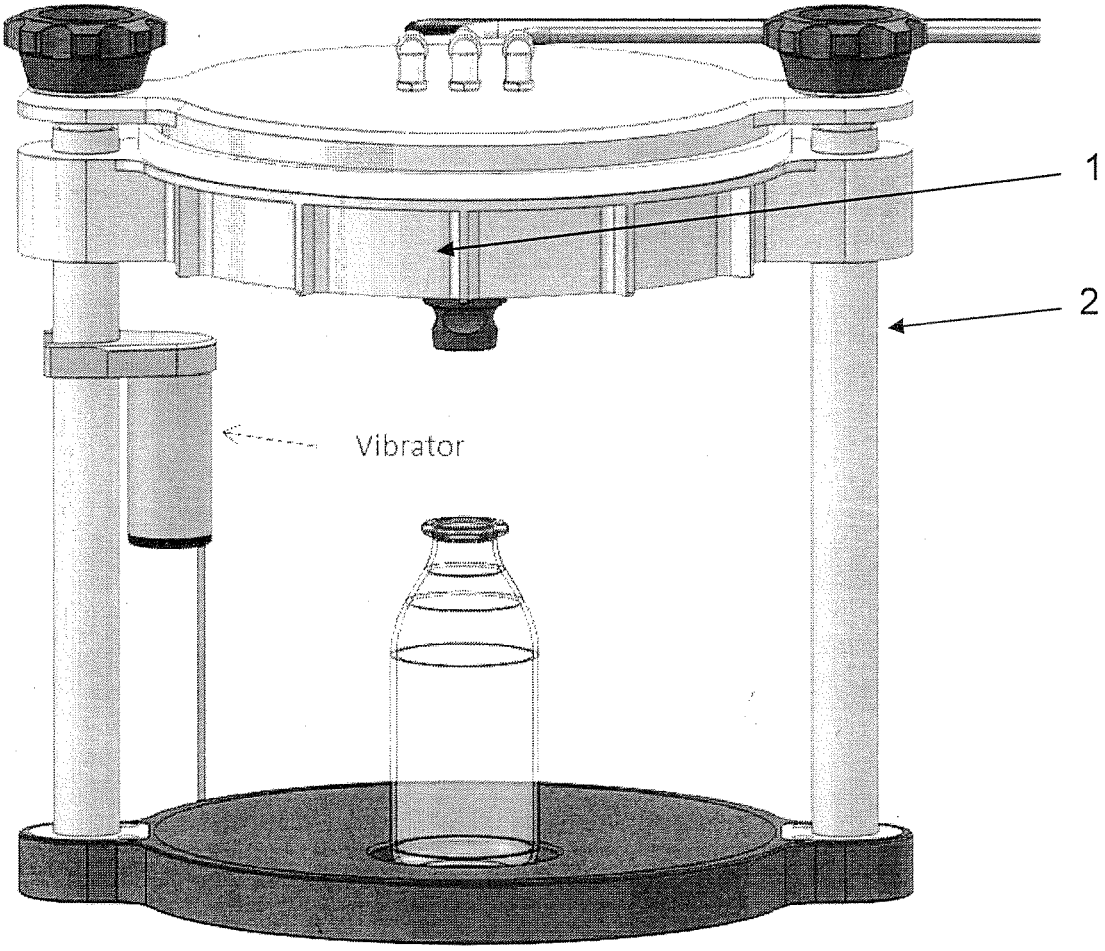


FIG. 2

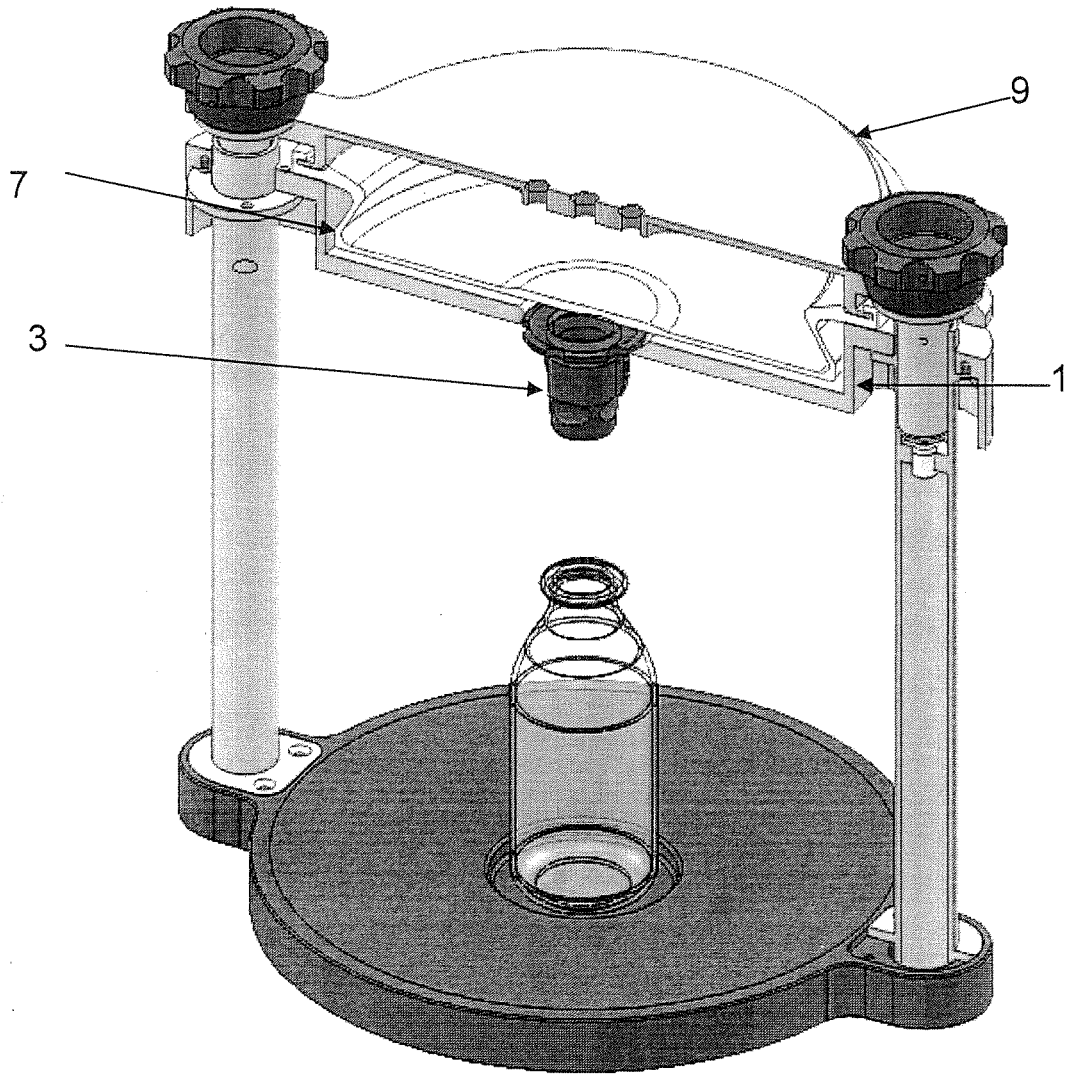


FIG. 3

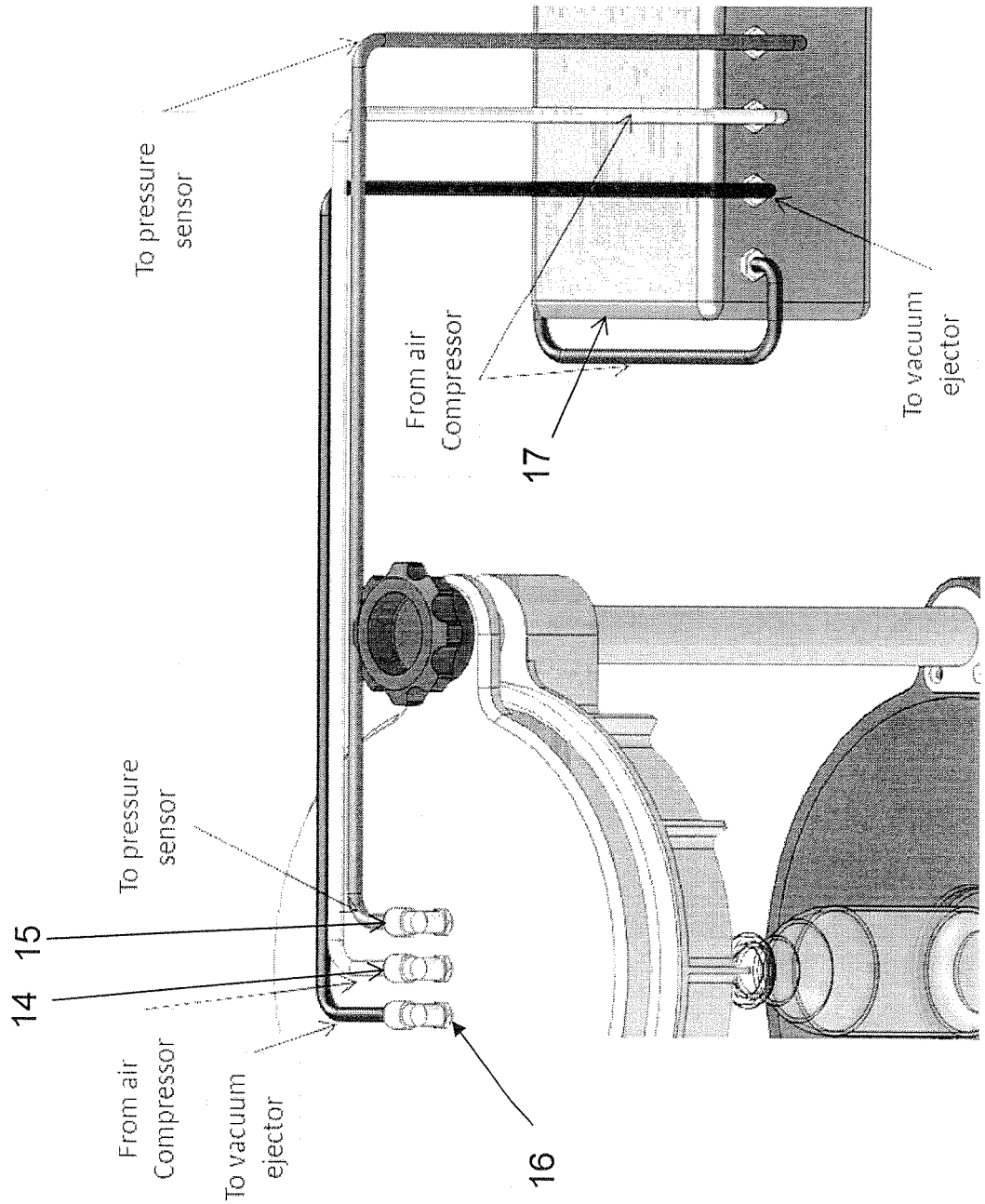

To pressure sensor
From air Compressor
17
To vacuum ejector
To pressure sensor
15
14
From air Compressor
To vacuum ejector
16

FIG. 4

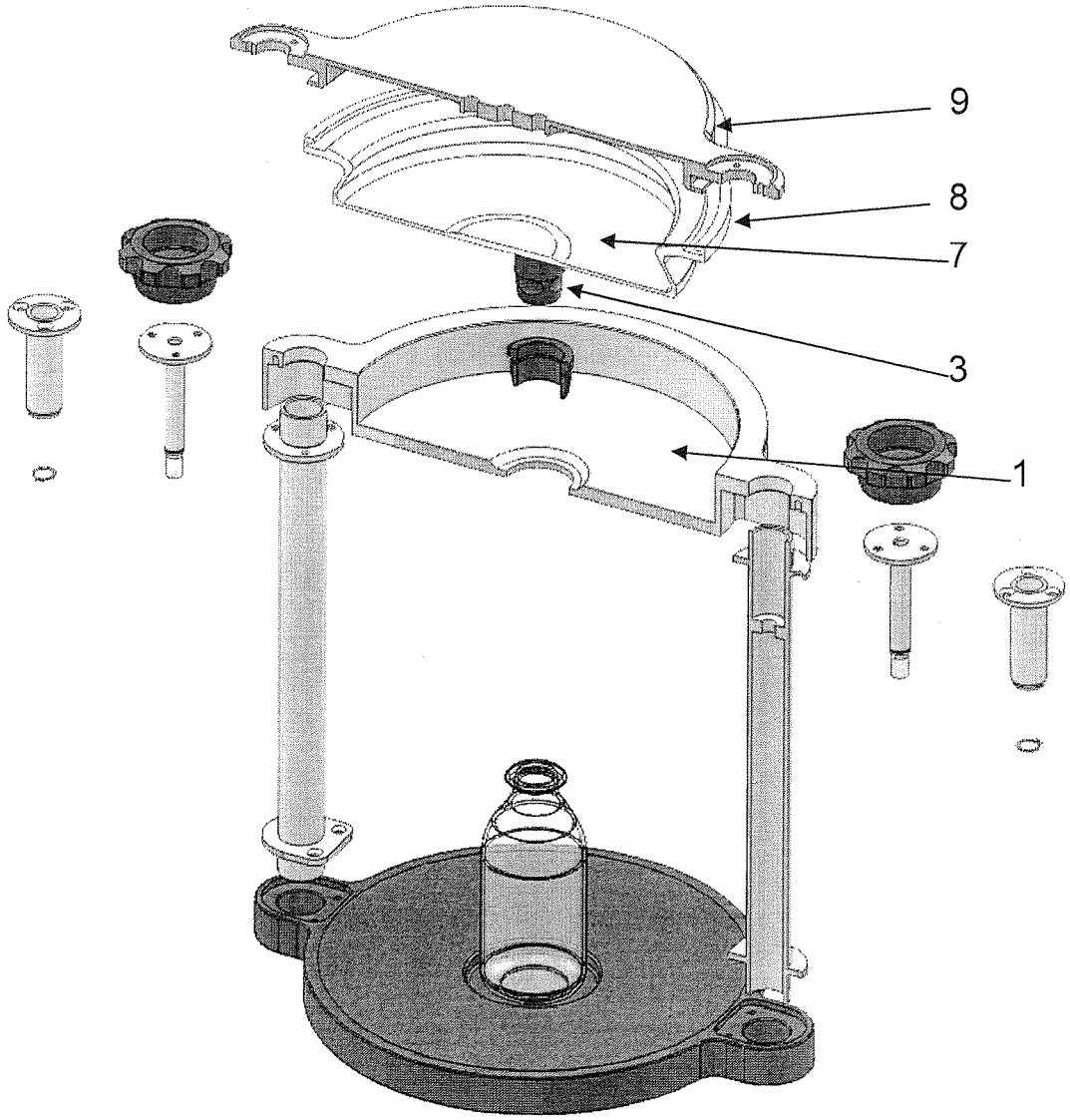


FIG. 5

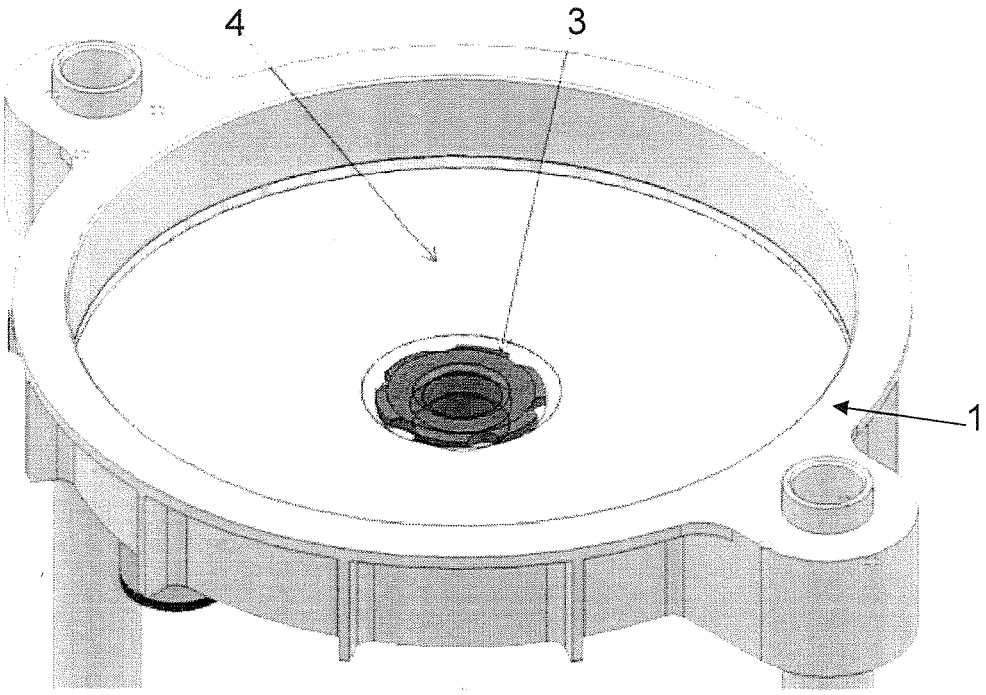


FIG. 6A

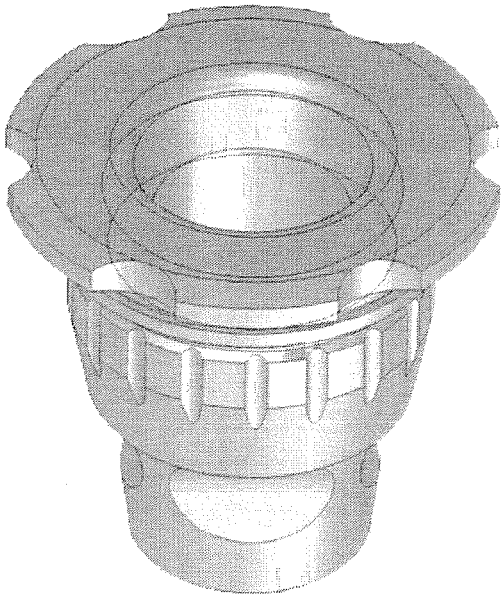


FIG. 6B

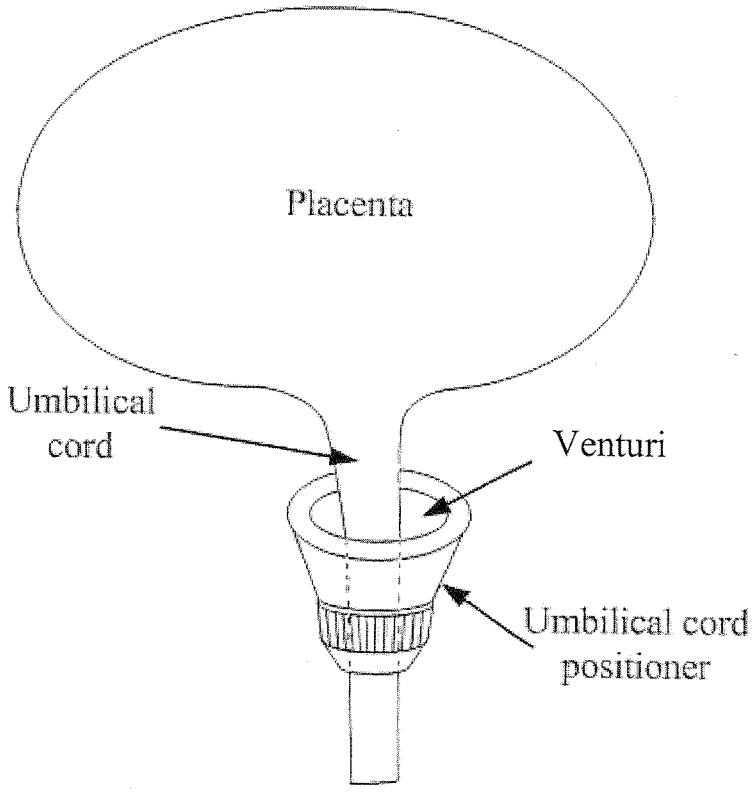

Placenta
Umbilical cord
Venturi
Umbilical cord positioner

FIG. 7

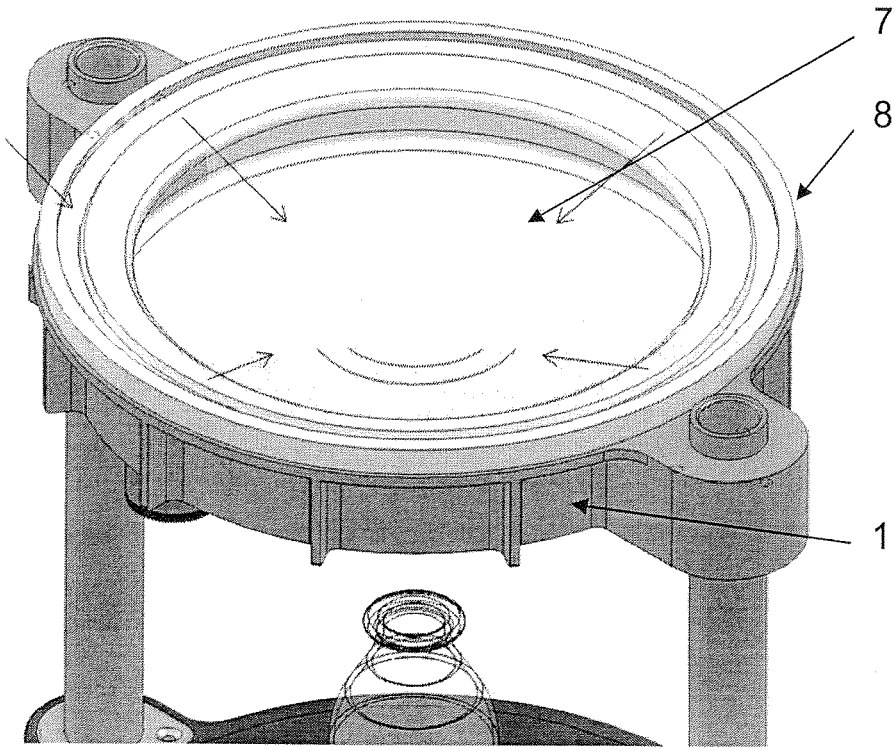


FIG. 8

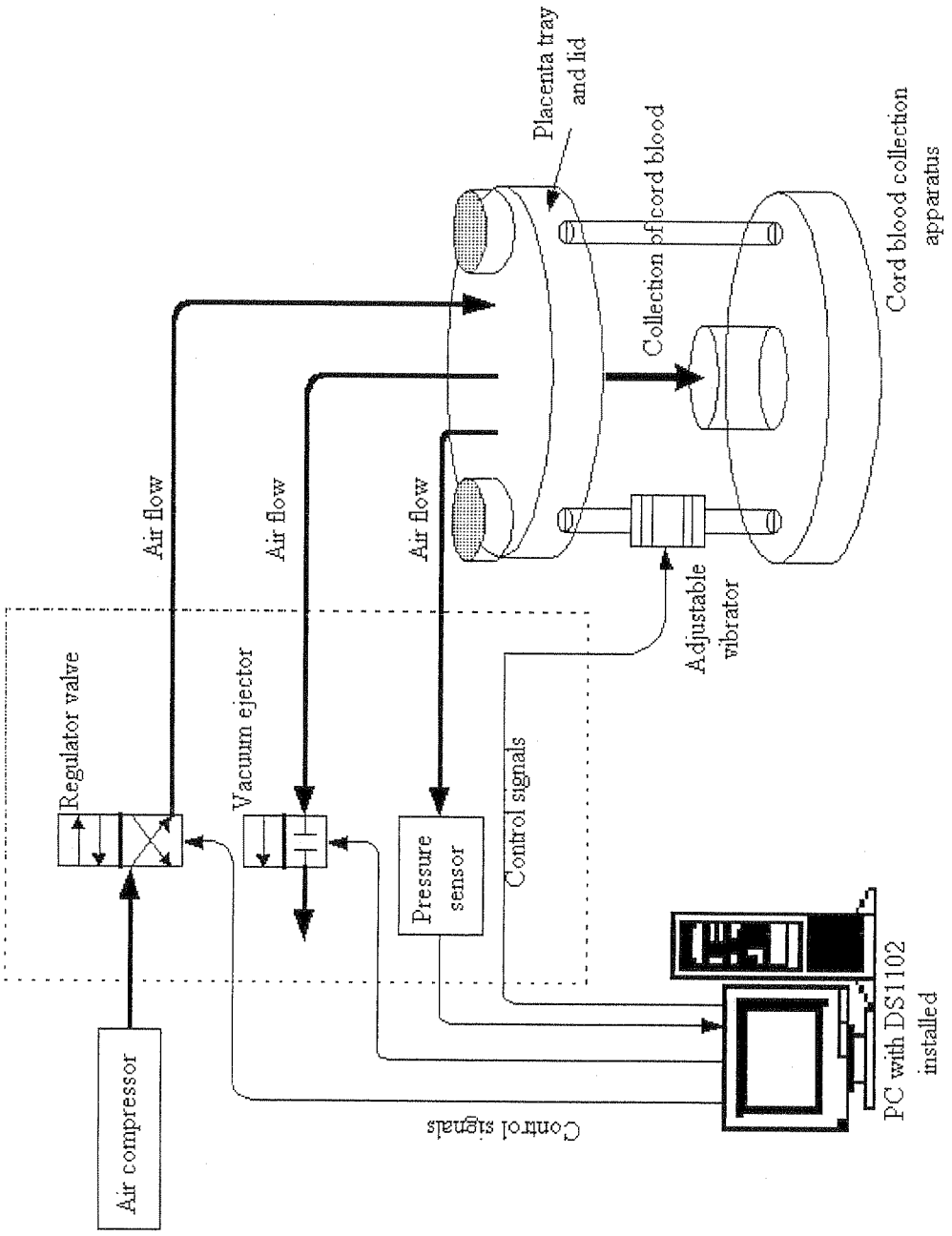

Placenta tray and lid
Collection of cord blood
Cord blood collection apparatus
Air flow
Air flow
Air flow
Regulator valve
Vacuum ejector
Pressure sensor
Control signals
Adjustable vibrator
PC with DS1102 installed
Air compressor
Control signals

FIG. 9

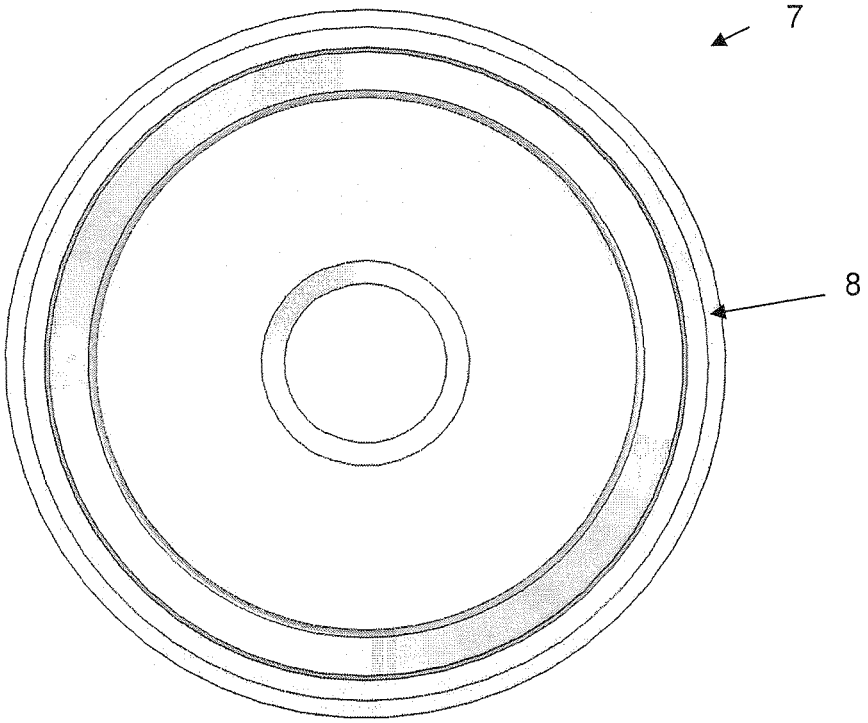


FIG.10

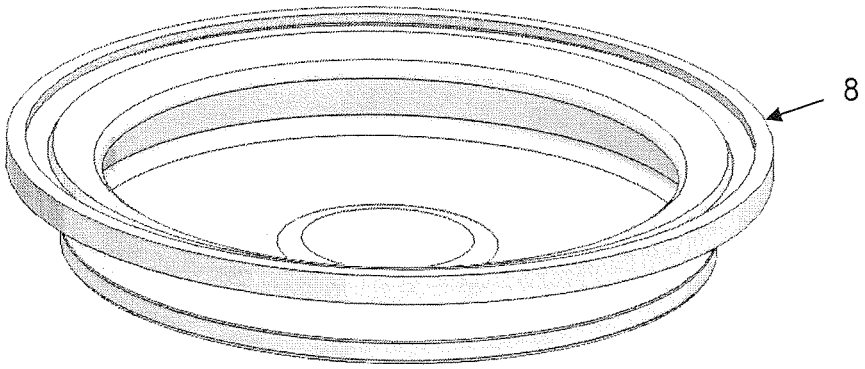


FIG. 11

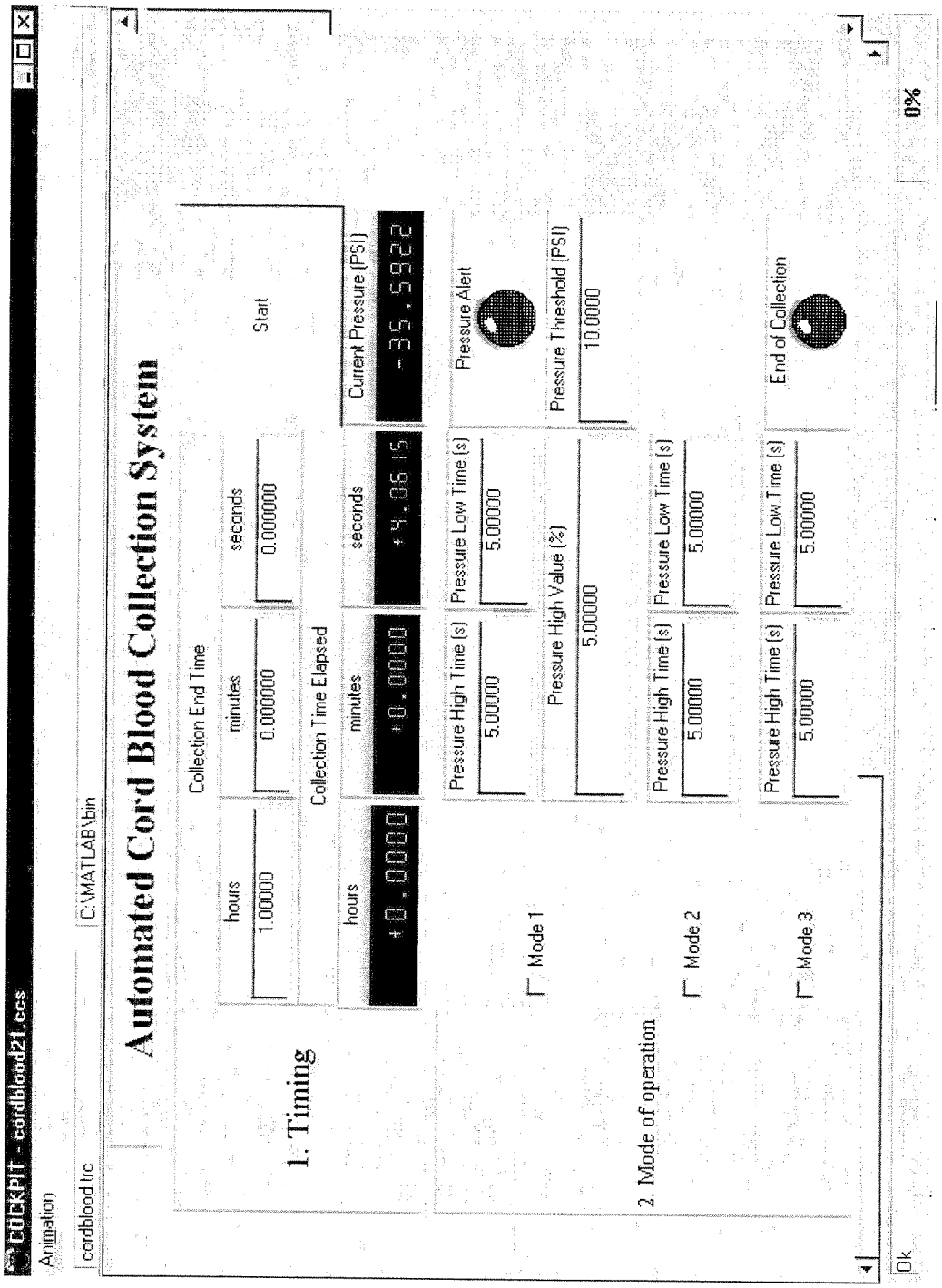

COCKPIT - cordBlood21.ccs
Animation
cordblood.lrc
C:\MATLAB\bin
Automated Cord Blood Collection System
1. Timing
Collection End Time
hours
1.00000
minutes
0.000000
seconds
0.000000
Start
Collection Time Elapsed
hours
+0.0000
minutes
+0.0000
seconds
+4.0615
Current Pressure (PSI)
-35.5922
2. Mode of operation
Mode 1
Pressure High Time (s)
5.00000
Pressure Low Time (s)
5.00000
Pressure High Value (%)
5.00000
Pressure Alert
Pressure Threshold (PSI)
10.0000
Mode 2
Pressure High Time (s)
5.00000
Pressure Low Time (s)
5.00000
Mode 3
Pressure High Time (s)
5.00000
Pressure Low Time (s)
5.00000
End of Collection
Ok
0%

FIG. 12

