08 JAN 2024

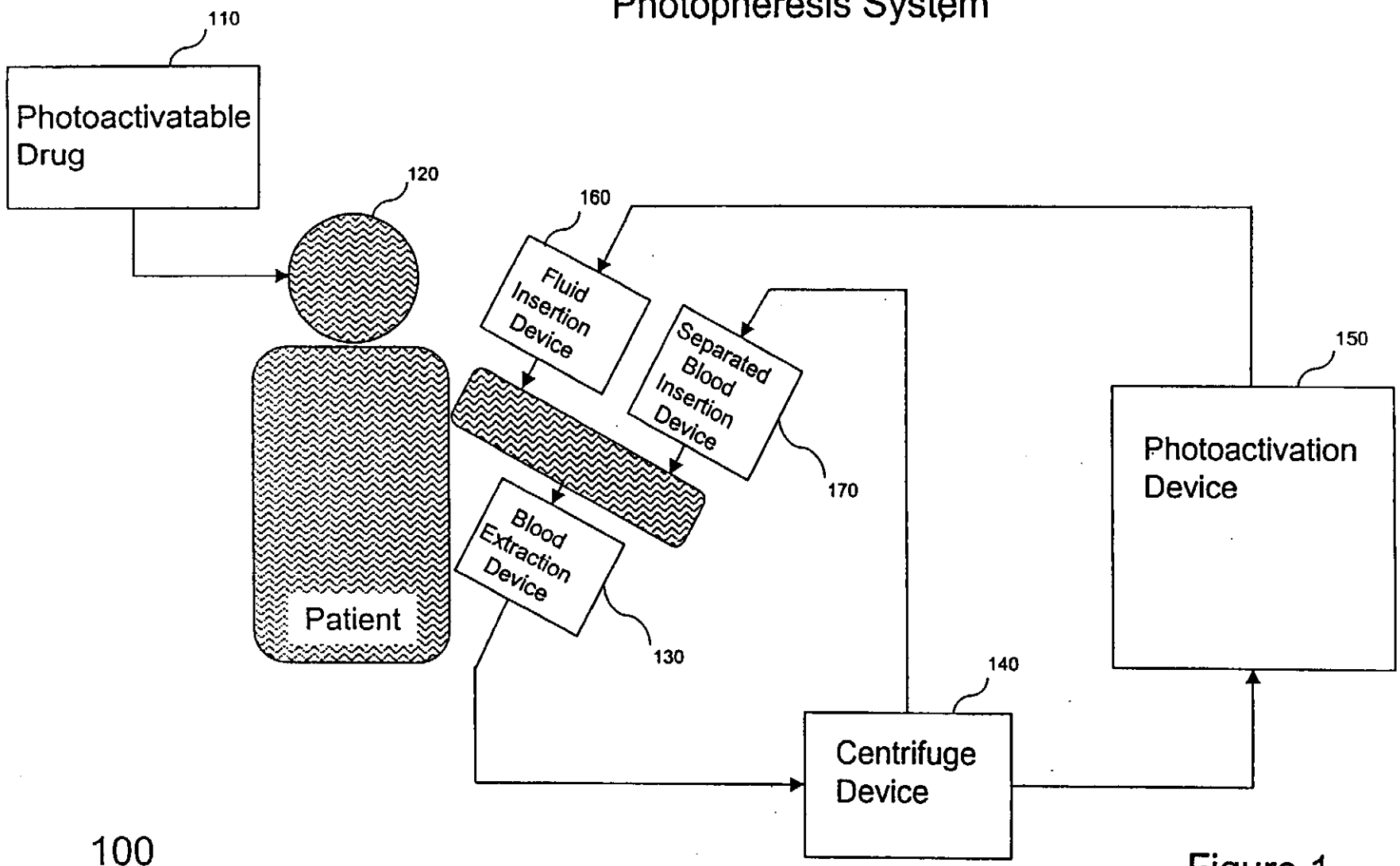
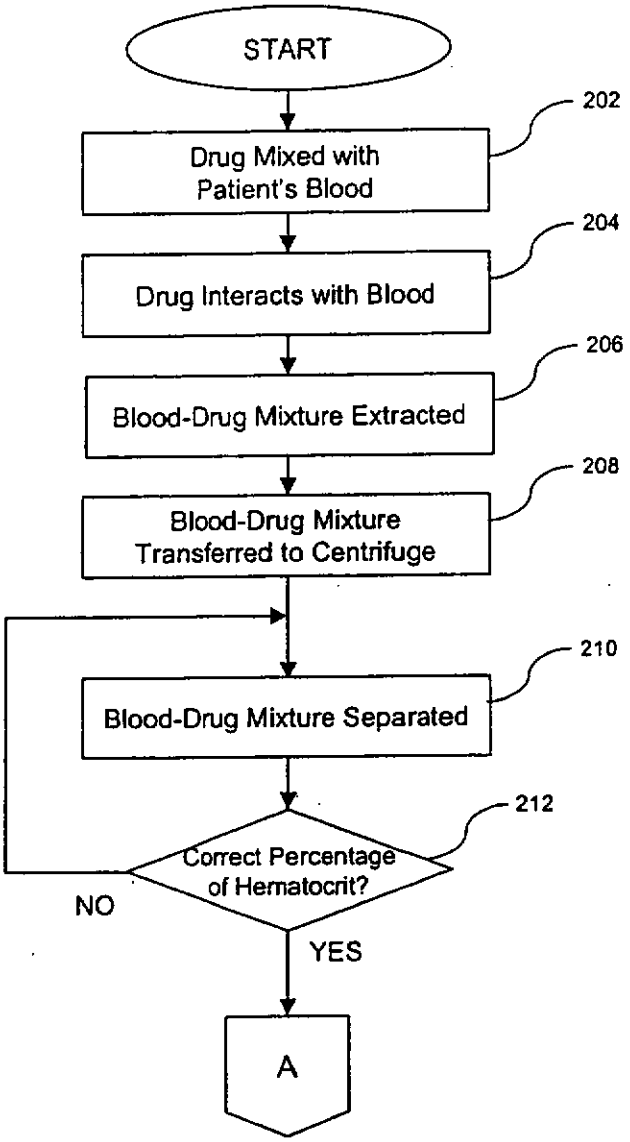


Figure 1



200

Figure 2A

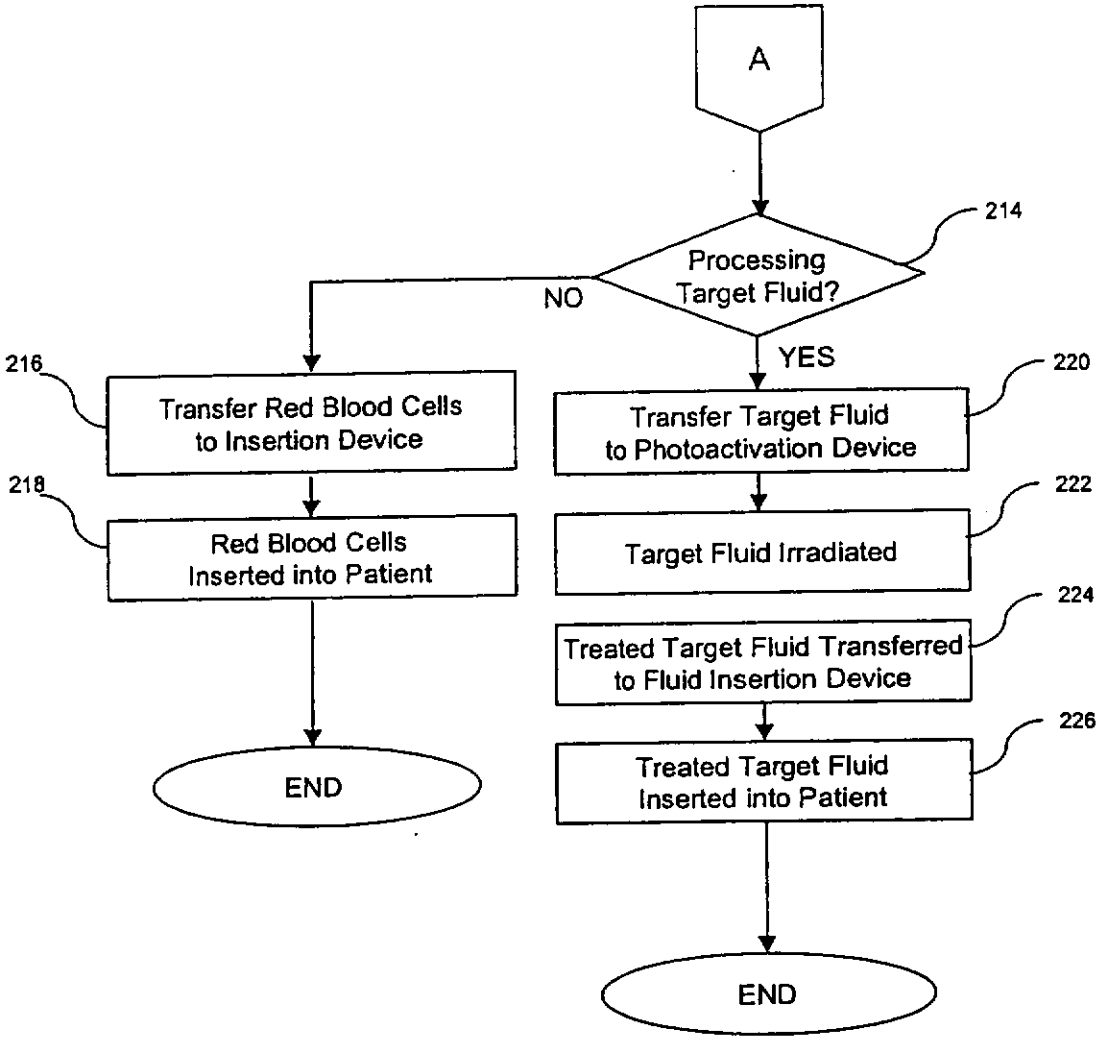

A
214
Processing Target Fluid?
NO
YES
216
Transfer Red Blood Cells to Insertion Device
218
Red Blood Cells Inserted into Patient
END
220
Transfer Target Fluid to Photoactivation Device
222
Target Fluid Irradiated
224
Treated Target Fluid Transferred to Fluid Insertion Device
226
Treated Target Fluid Inserted into Patient
END

Figure 2B

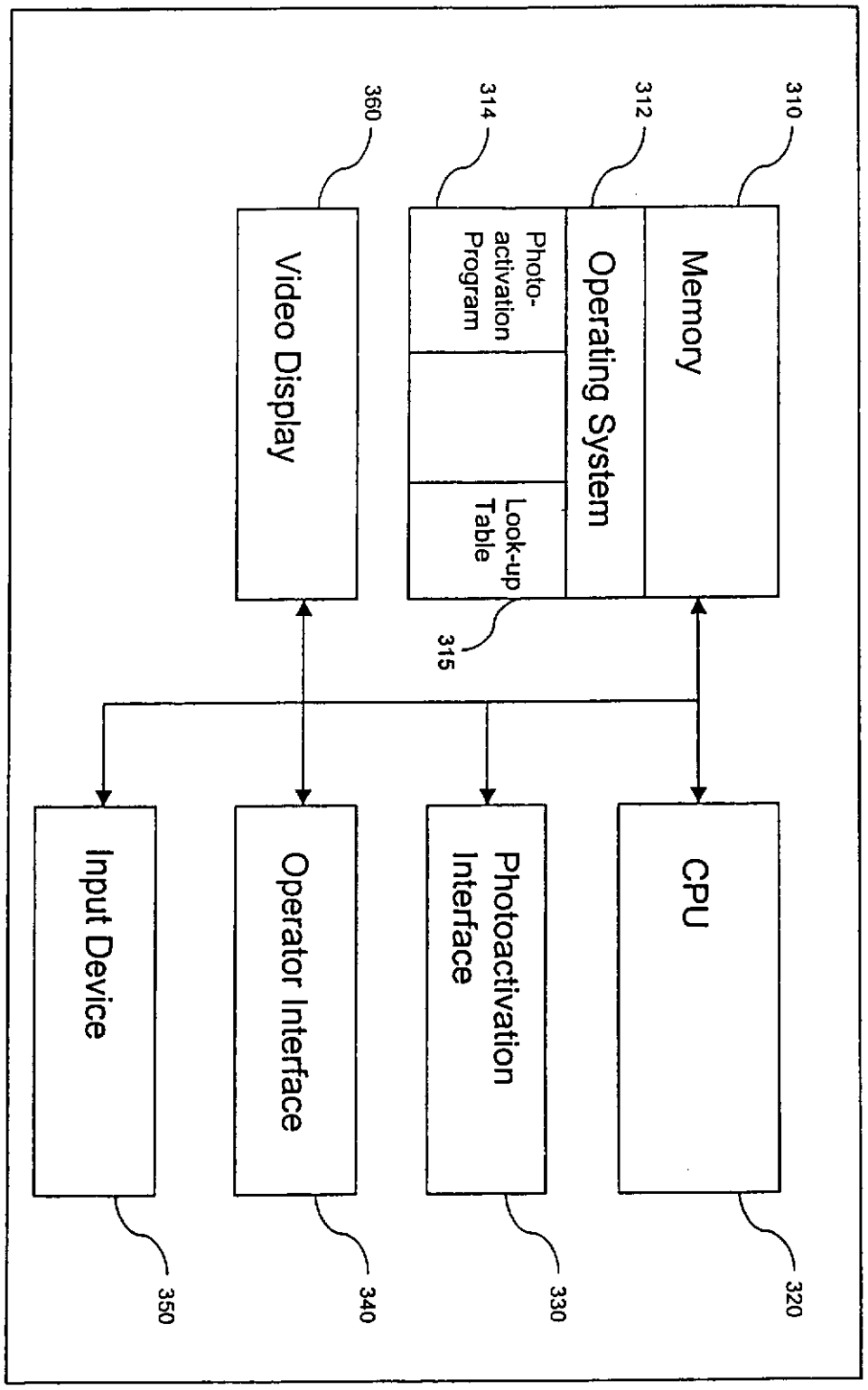
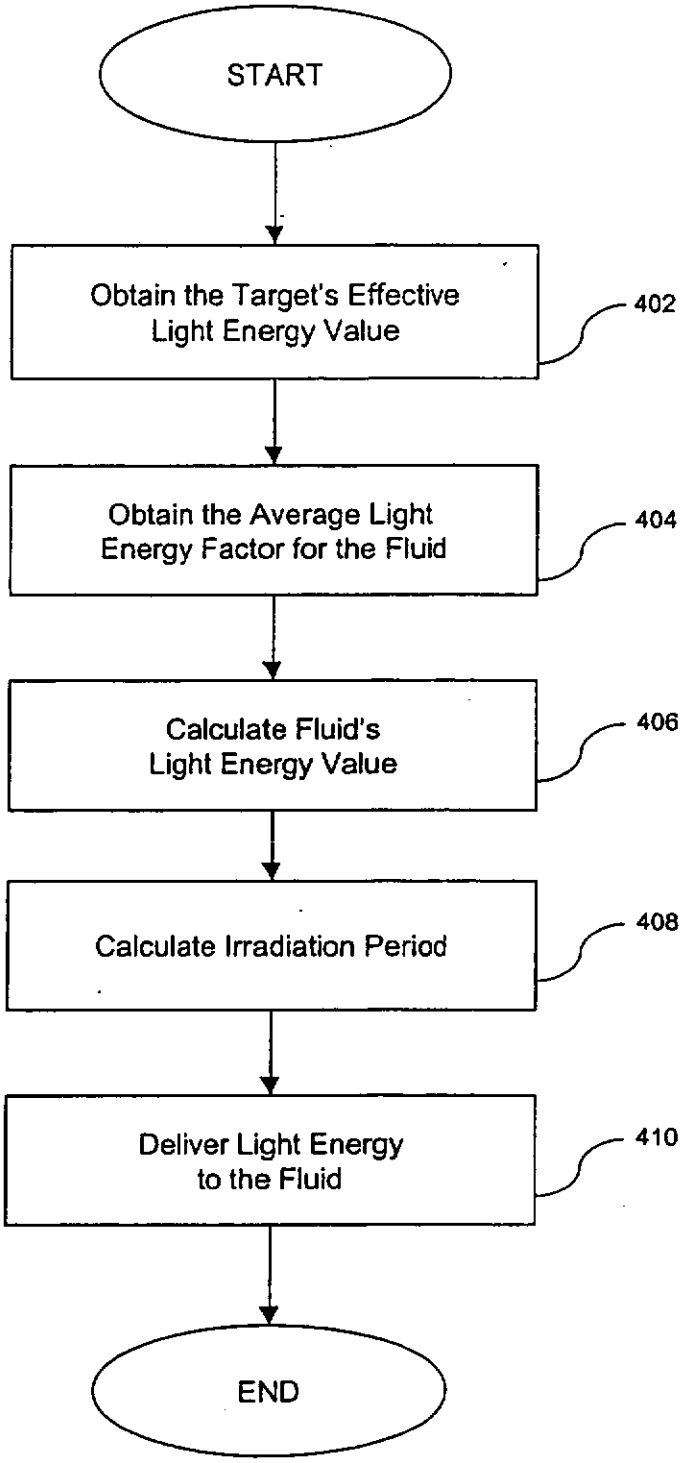
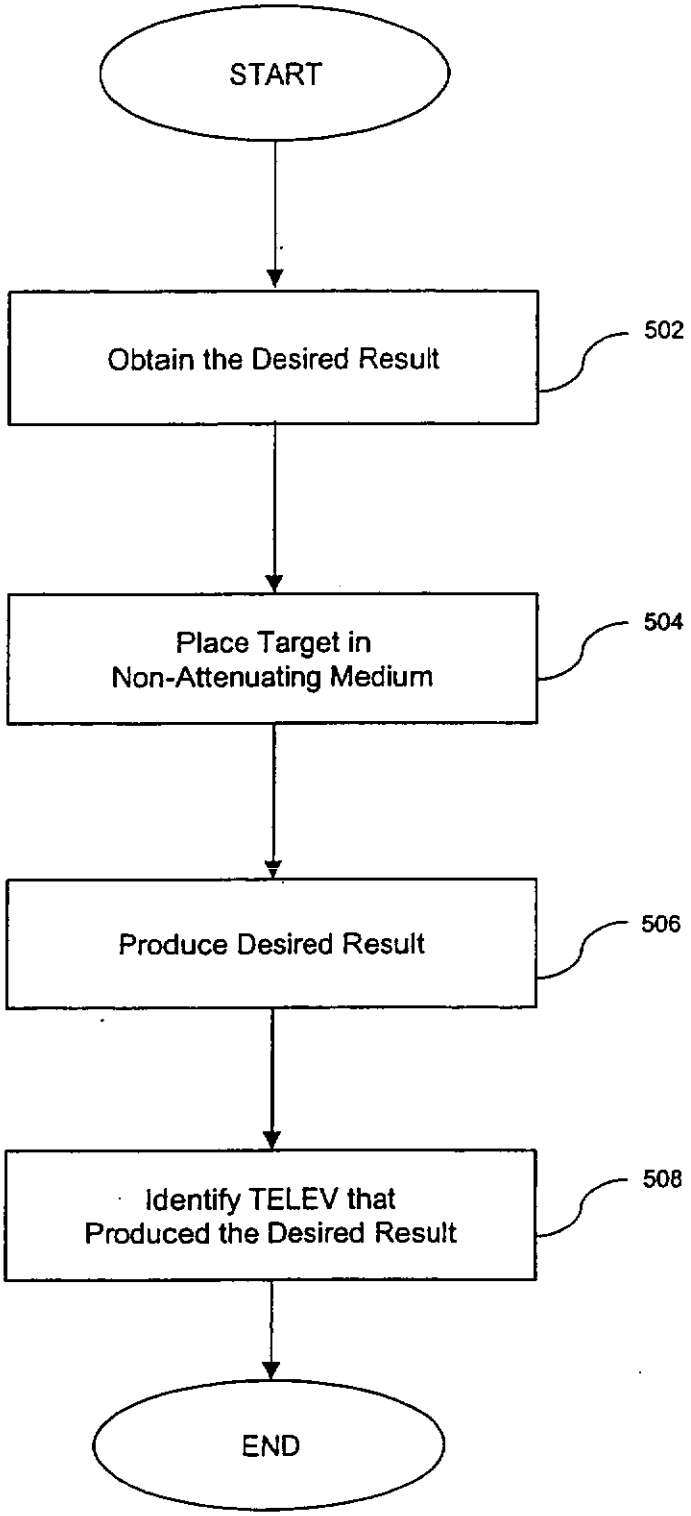

300
Computer
Memory
Operating System
Photo-activation Program
Look-up Table
Video Display
CPU
Photoactivation Interface
Operator Interface
Input Device
310
312
314
315
320
330
340
350
360

Figure 3


START
Obtain the Target's Effective Light Energy Value
402
Obtain the Average Light Energy Factor for the Fluid
404
Calculate Fluid's Light Energy Value
406
Calculate Irradiation Period
408
Deliver Light Energy to the Fluid
410
END

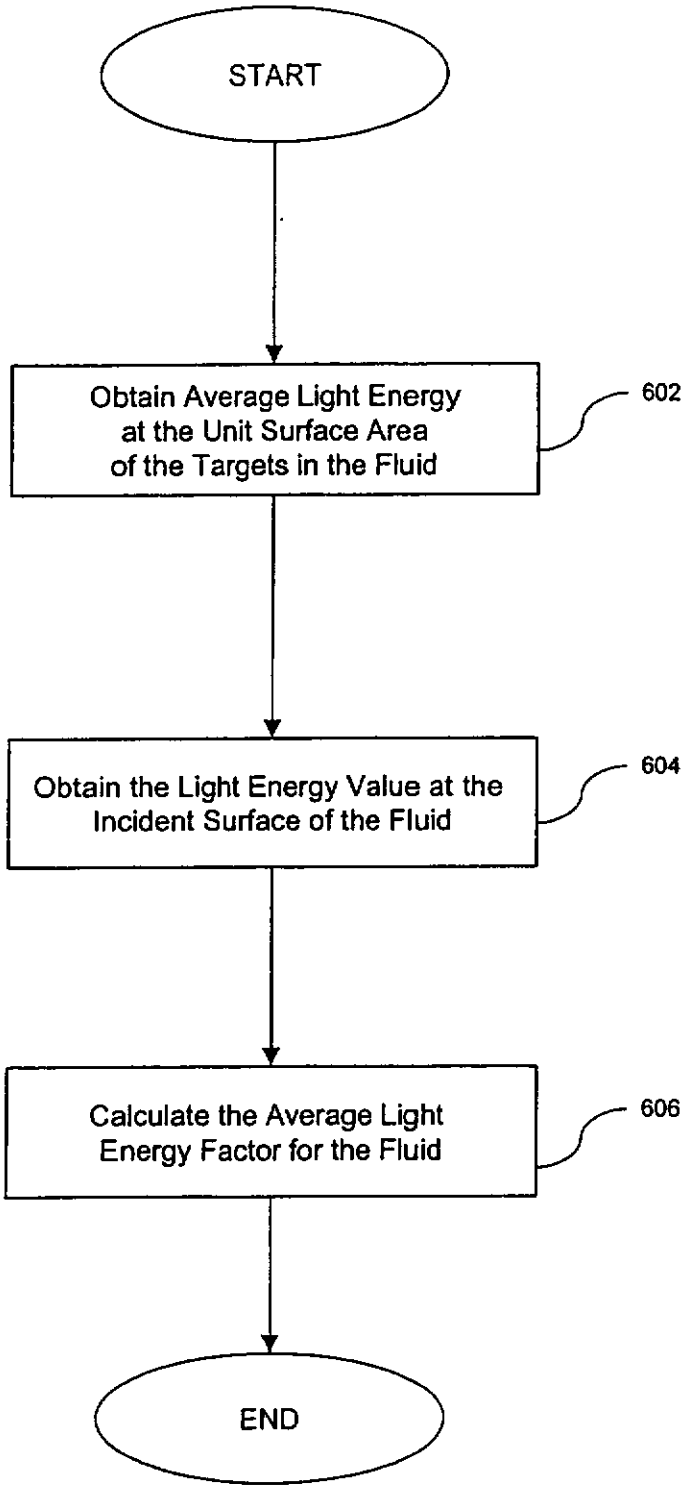
400

Figure 4


START
Obtain the Desired Result
502
Place Target in
Non-Attenuating Medium
504
Produce Desired Result
506
Identify TELEV that
Produced the Desired Result
508
END

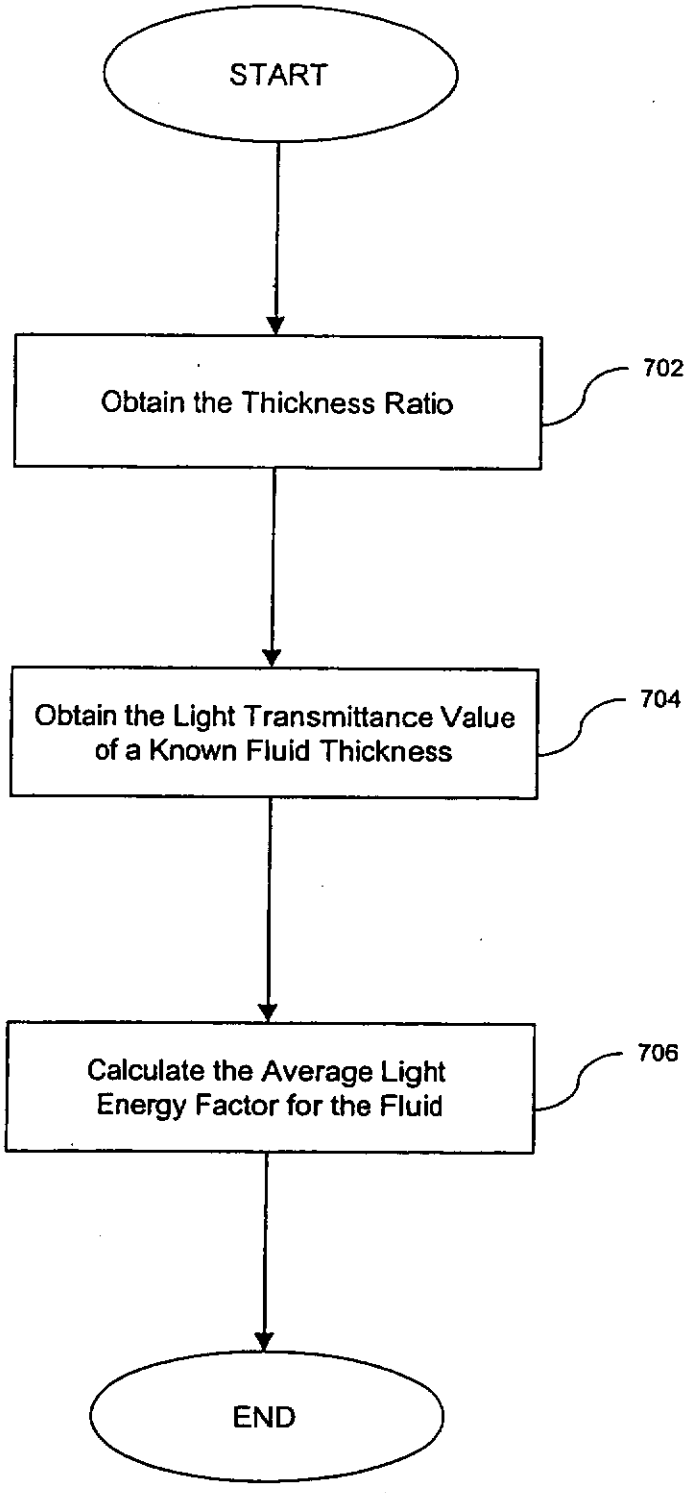
500

Figure 5


START
Obtain Average Light Energy at the Unit Surface Area of the Targets in the Fluid
602
Obtain the Light Energy Value at the Incident Surface of the Fluid
604
Calculate the Average Light Energy Factor for the Fluid
606
END

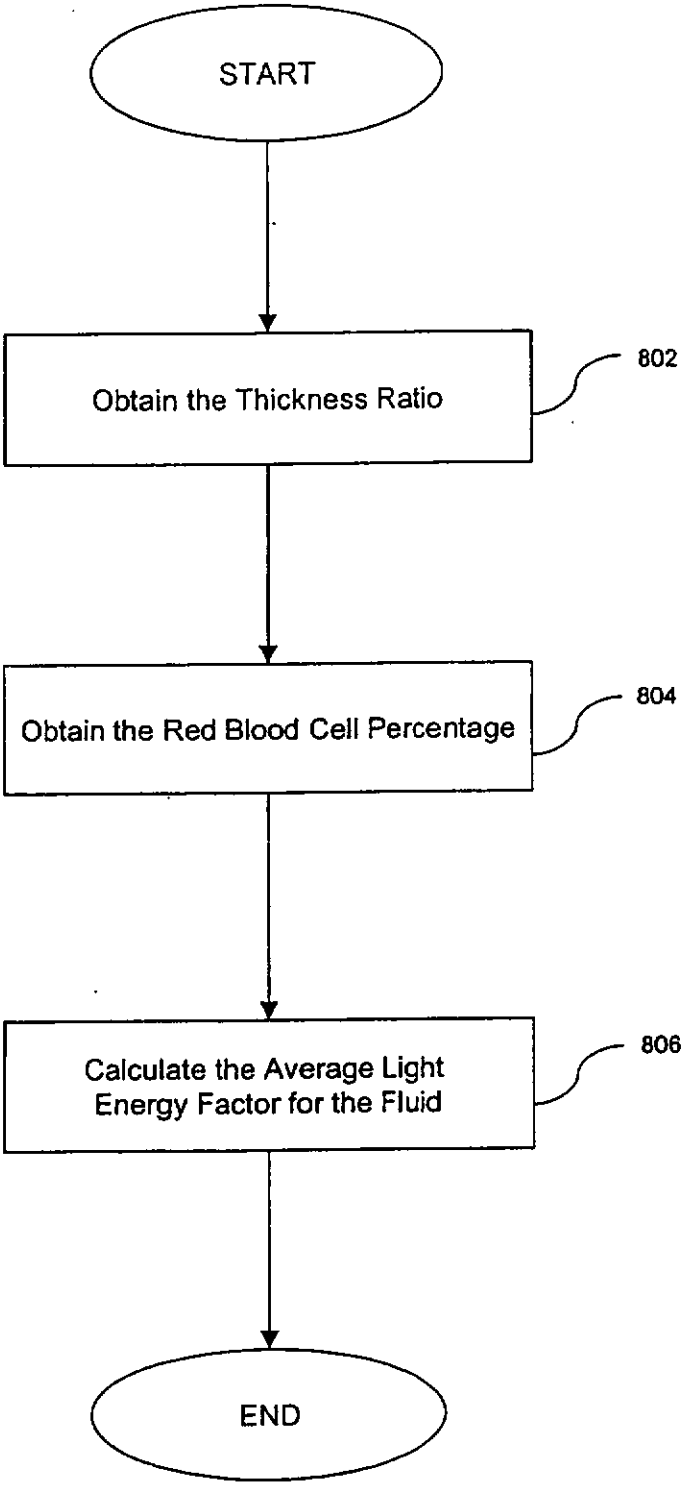
600

Figure 6


START
Obtain the Thickness Ratio
702
Obtain the Light Transmittance Value of a Known Fluid Thickness
704
Calculate the Average Light Energy Factor for the Fluid
706
END

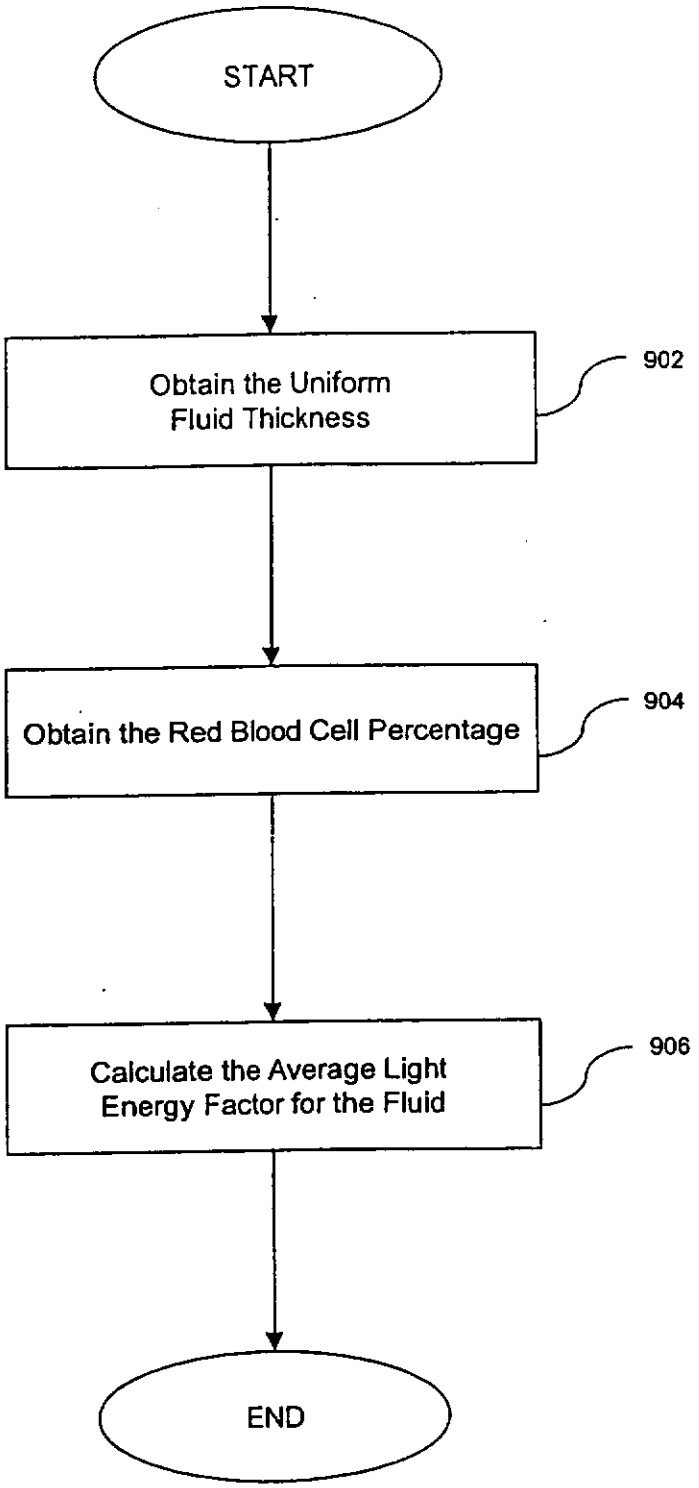
700

Figure 7


START
Obtain the Thickness Ratio
802
Obtain the Red Blood Cell Percentage
804
Calculate the Average Light Energy Factor for the Fluid
806
END

800

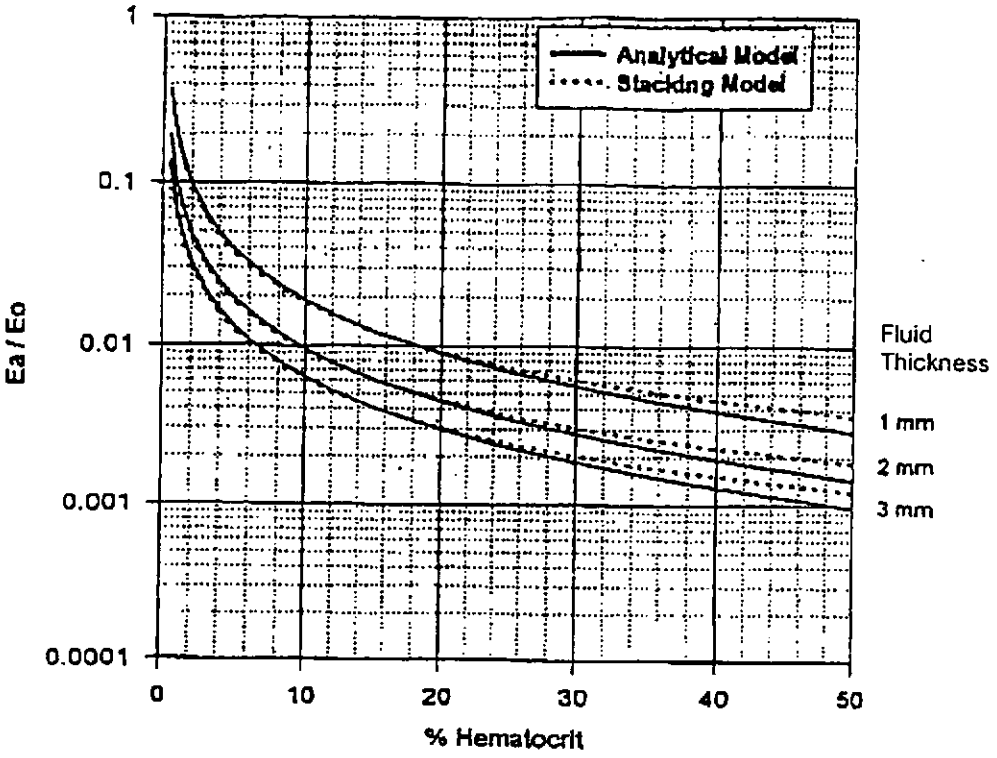
Figure 8


START
Obtain the Uniform Fluid Thickness
902
Obtain the Red Blood Cell Percentage
904
Calculate the Average Light Energy Factor for the Fluid
906
END

900

Figure 9

ALE Factors



1000

Figure 10

Lamp Life Time (Hrs)	*L* Values
0-9	8605, 7855, 7625, 7488, 7390, 7313, 7249, 7195, 7147, 7105
10-19	7067, 7032, 7000, 6970, 6942, 6916, 6892, 6869, 6847, 6826
20-29	6806, 6787, 6769, 6751, 6734, 6718, 6702, 6687, 6672, 6658
30-39	6644, 6630, 6617, 6604, 6592, 6580, 6568, 6556, 6545, 6534
40-49	6523, 6512, 6502, 6491, 6481, 6472, 6462, 6452, 6443, 6434
50-59	6425, 6416, 6407, 6399, 6390, 6382, 6374, 6366, 6358, 6350
60-69	6342, 6334, 6327, 6319, 6312, 6305, 6297, 6290, 6283, 6276
70-79	6269, 6263, 6256, 6249, 6243, 6236, 6230, 6223, 6217, 6211
80-89	6205, 6198, 6192, 6186, 6180, 6174, 6169, 6163, 6157, 6151
90-99	6146, 6140, 6135, 6129, 6124, 6118, 6113, 6107, 6102, 6097
100-109	6092, 6087, 6081, 6076, 6071, 6066, 6061, 6056, 6051, 6047
110-119	6042, 6037, 6032, 6027, 6023, 6018, 6013, 6009, 6004, 5999
120-129	5995, 5990, 5986, 5981, 5977, 5973, 5968, 5964, 5960, 5955
130-139	5951, 5947, 5942, 5938, 5934, 5930, 5926, 5922, 5918, 5913
140-149	5909, 5905, 5901, 5897, 5893, 5889, 5885, 5882, 5878, 5874
150	5870

Figure 11

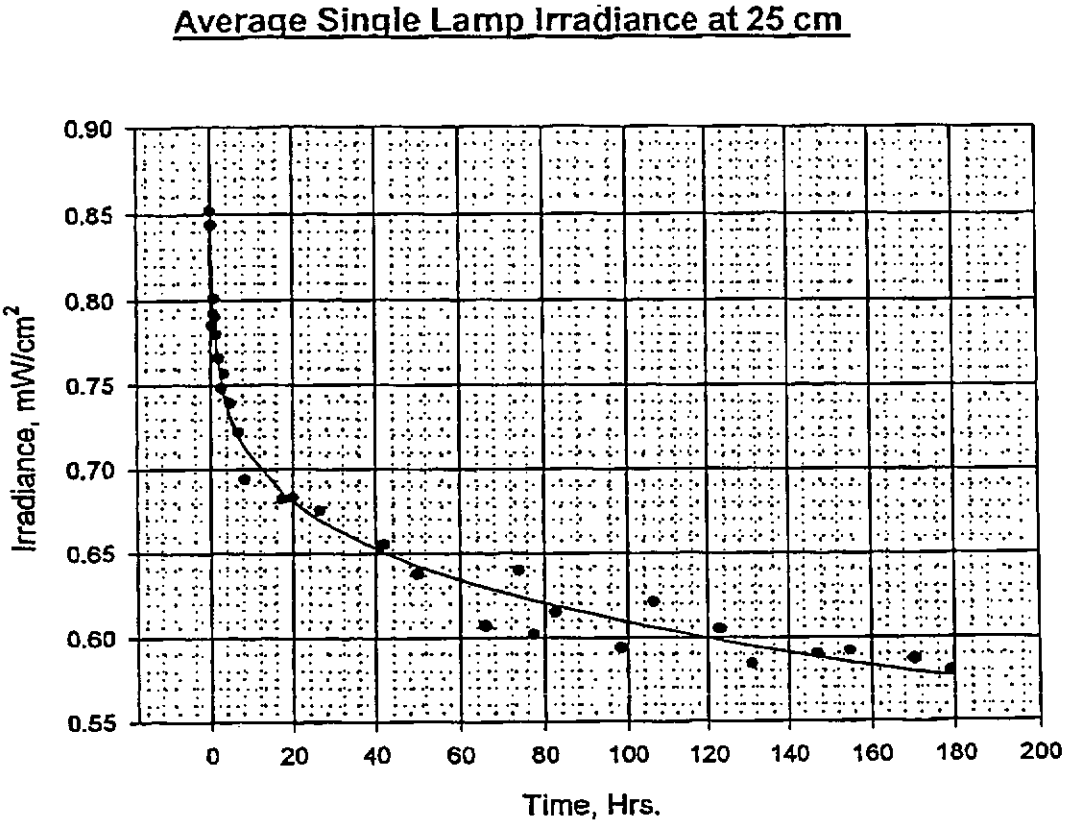

Average Single Lamp Irradiance at 25 cm
Irradiance, mW/cm2
0.90
0.85
0.80
0.75
0.70
0.65
0.60
0.55
0
20
40
60
80
100
120
140
160
180
200
Time, Hrs.

Figure 12