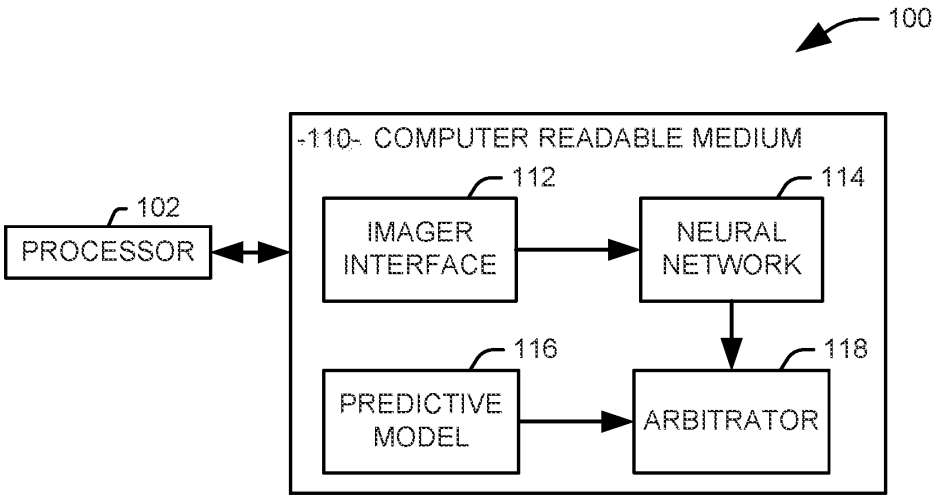

100
-110- COMPUTER READABLE MEDIUM
102
PROCESSOR
112
IMAGER INTERFACE
114
NEURAL NETWORK
116
PREDICTIVE MODEL
118
ARBITRATOR

FIG. 1

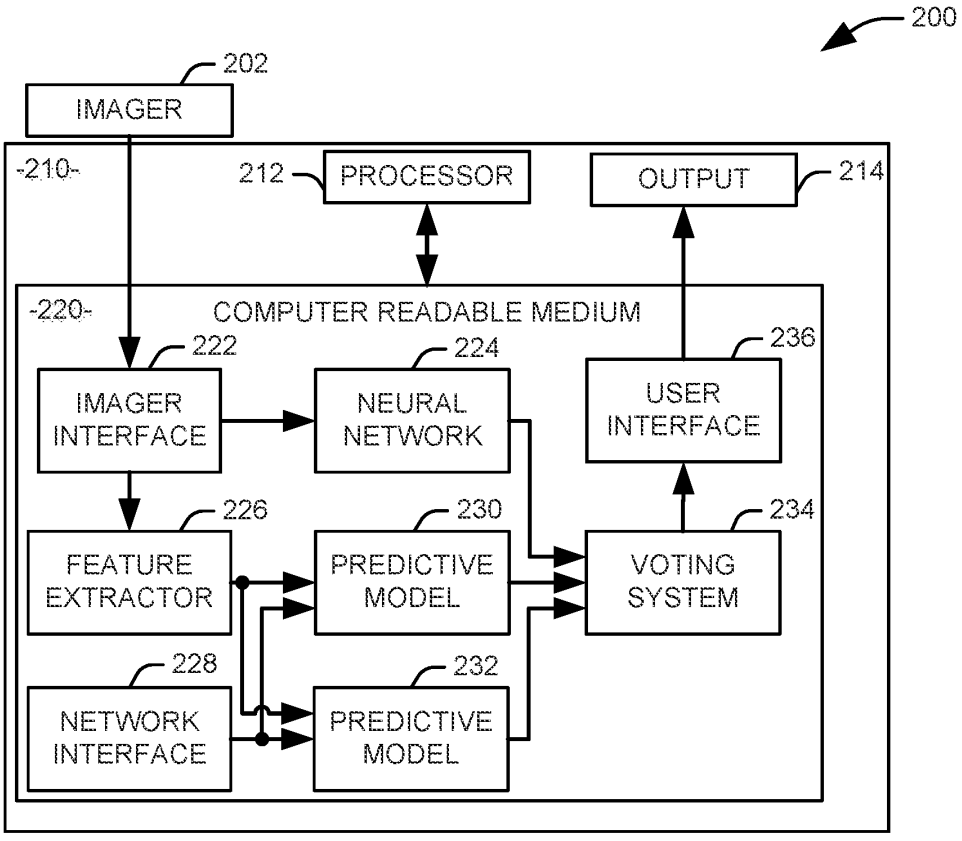

200
202
IMAGER
-210-
212
PROCESSOR
OUTPUT
214
-220-
COMPUTER READABLE MEDIUM
222
IMAGER INTERFACE
224
NEURAL NETWORK
236
USER INTERFACE
226
FEATURE EXTRACTOR
230
PREDICTIVE MODEL
234
VOTING SYSTEM
228
NETWORK INTERFACE
232
PREDICTIVE MODEL

FIG. 2

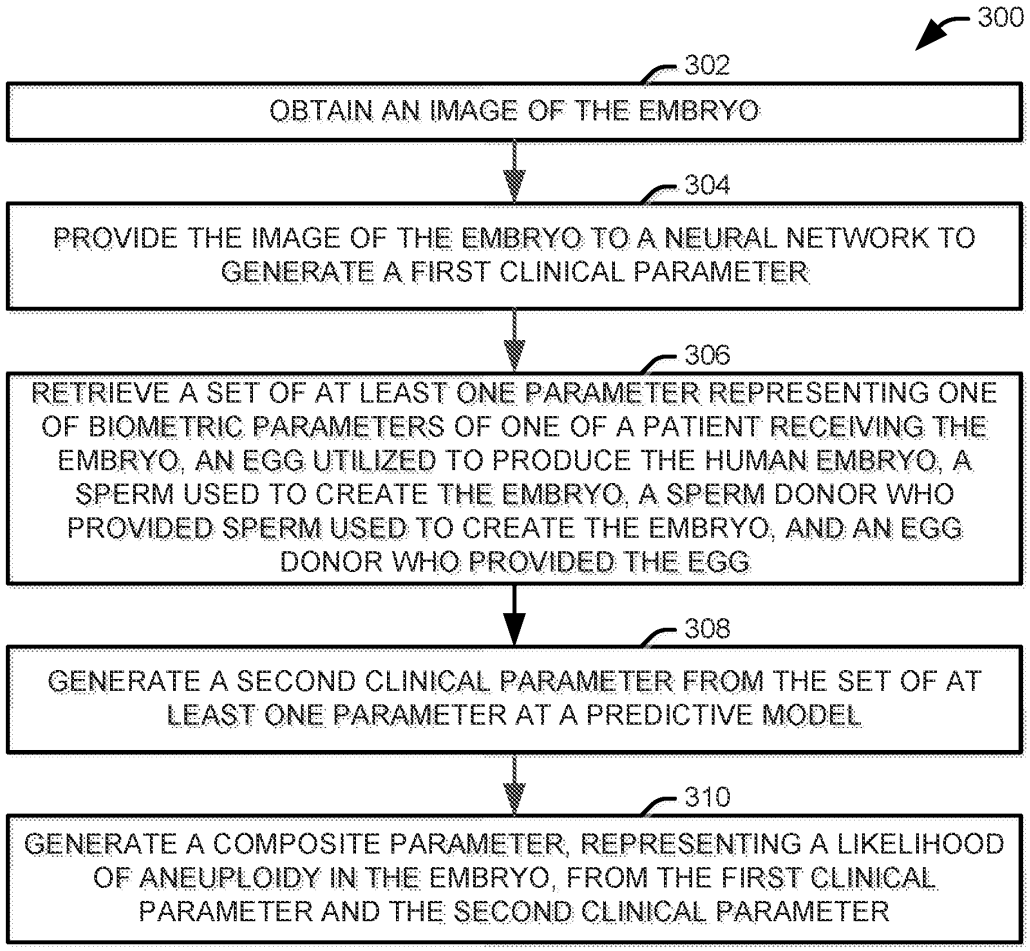

300
302
OBTAIN AN IMAGE OF THE EMBRYO
304
PROVIDE THE IMAGE OF THE EMBRYO TO A NEURAL NETWORK TO GENERATE A FIRST CLINICAL PARAMETER
306
RETRIEVE A SET OF AT LEAST ONE PARAMETER REPRESENTING ONE OF BIOMETRIC PARAMETERS OF ONE OF A PATIENT RECEIVING THE EMBRYO, AN EGG UTILIZED TO PRODUCE THE HUMAN EMBRYO, A SPERM USED TO CREATE THE EMBRYO, A SPERM DONOR WHO PROVIDED SPERM USED TO CREATE THE EMBRYO, AND AN EGG DONOR WHO PROVIDED THE EGG
308
GENERATE A SECOND CLINICAL PARAMETER FROM THE SET OF AT LEAST ONE PARAMETER AT A PREDICTIVE MODEL
310
GENERATE A COMPOSITE PARAMETER, REPRESENTING A LIKELIHOOD OF ANEUPLOIDY IN THE EMBRYO, FROM THE FIRST CLINICAL PARAMETER AND THE SECOND CLINICAL PARAMETER

FIG. 3

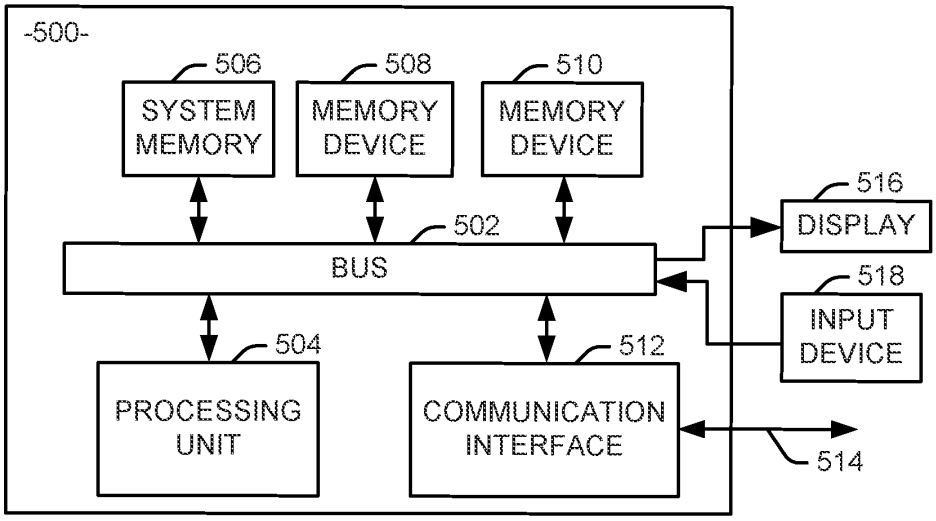

-500-
506
SYSTEM MEMORY
508
MEMORY DEVICE
510
MEMORY DEVICE
502
BUS
516
DISPLAY
518
INPUT DEVICE
504
PROCESSING UNIT
512
COMMUNICATION INTERFACE
514

FIG. 5

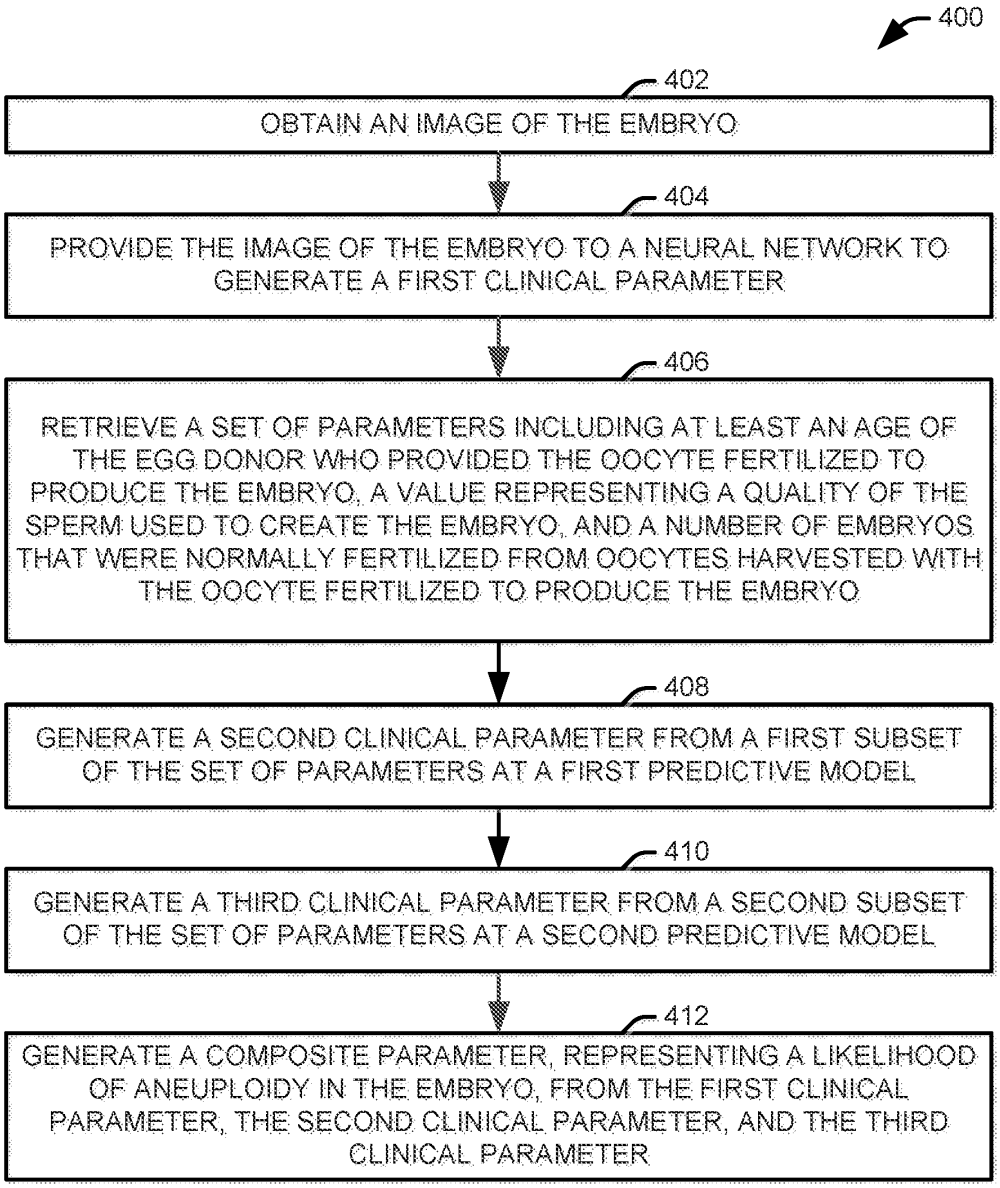

400
402
OBTAIN AN IMAGE OF THE EMBRYO
404
PROVIDE THE IMAGE OF THE EMBRYO TO A NEURAL NETWORK TO GENERATE A FIRST CLINICAL PARAMETER
406
RETRIEVE A SET OF PARAMETERS INCLUDING AT LEAST AN AGE OF THE EGG DONOR WHO PROVIDED THE OOCYTE FERTILIZED TO PRODUCE THE EMBRYO, A VALUE REPRESENTING A QUALITY OF THE SPERM USED TO CREATE THE EMBRYO, AND A NUMBER OF EMBRYOS THAT WERE NORMALLY FERTILIZED FROM OOCYTES HARVESTED WITH THE OOCYTE FERTILIZED TO PRODUCE THE EMBRYO
408
GENERATE A SECOND CLINICAL PARAMETER FROM A FIRST SUBSET OF THE SET OF PARAMETERS AT A FIRST PREDICTIVE MODEL
410
GENERATE A THIRD CLINICAL PARAMETER FROM A SECOND SUBSET OF THE SET OF PARAMETERS AT A SECOND PREDICTIVE MODEL
412
GENERATE A COMPOSITE PARAMETER, REPRESENTING A LIKELIHOOD OF ANEUPLOIDY IN THE EMBRYO, FROM THE FIRST CLINICAL PARAMETER, THE SECOND CLINICAL PARAMETER, AND THE THIRD CLINICAL PARAMETER

FIG. 4