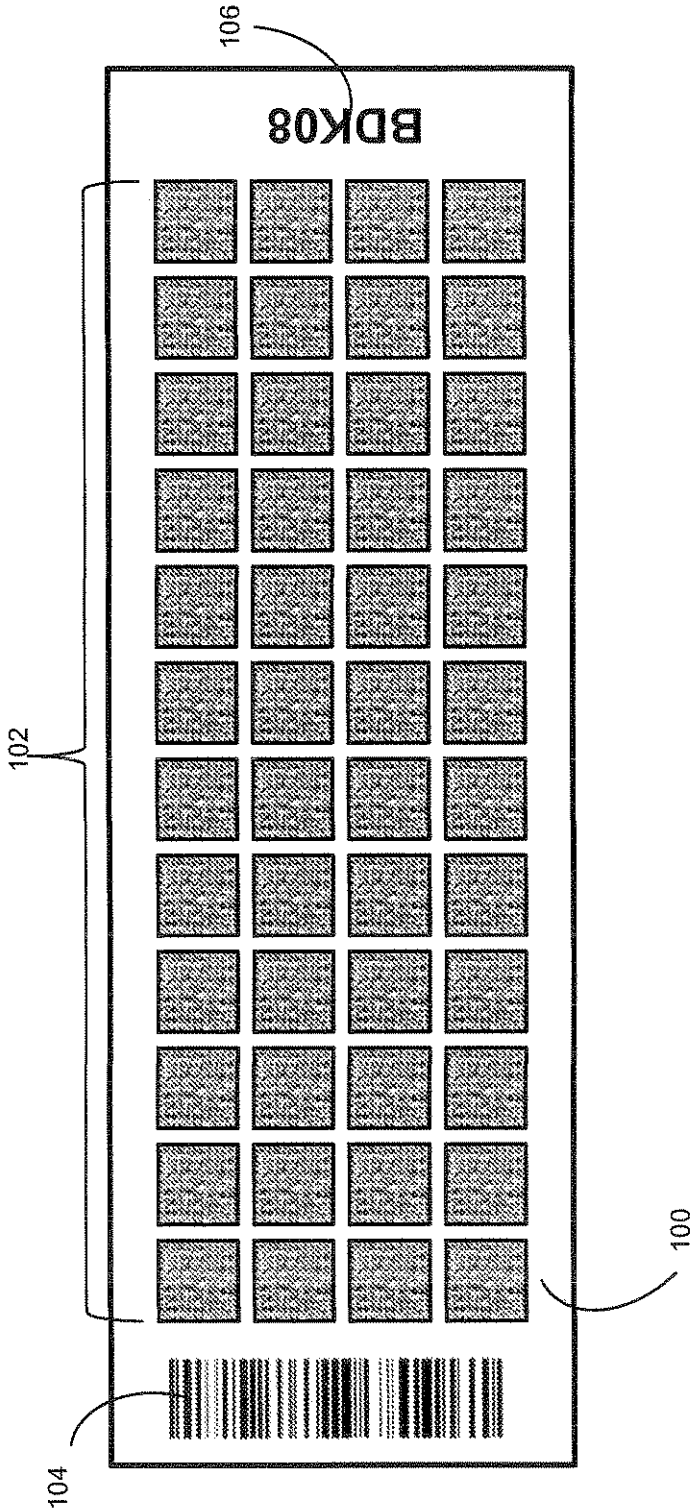


FIG. 1

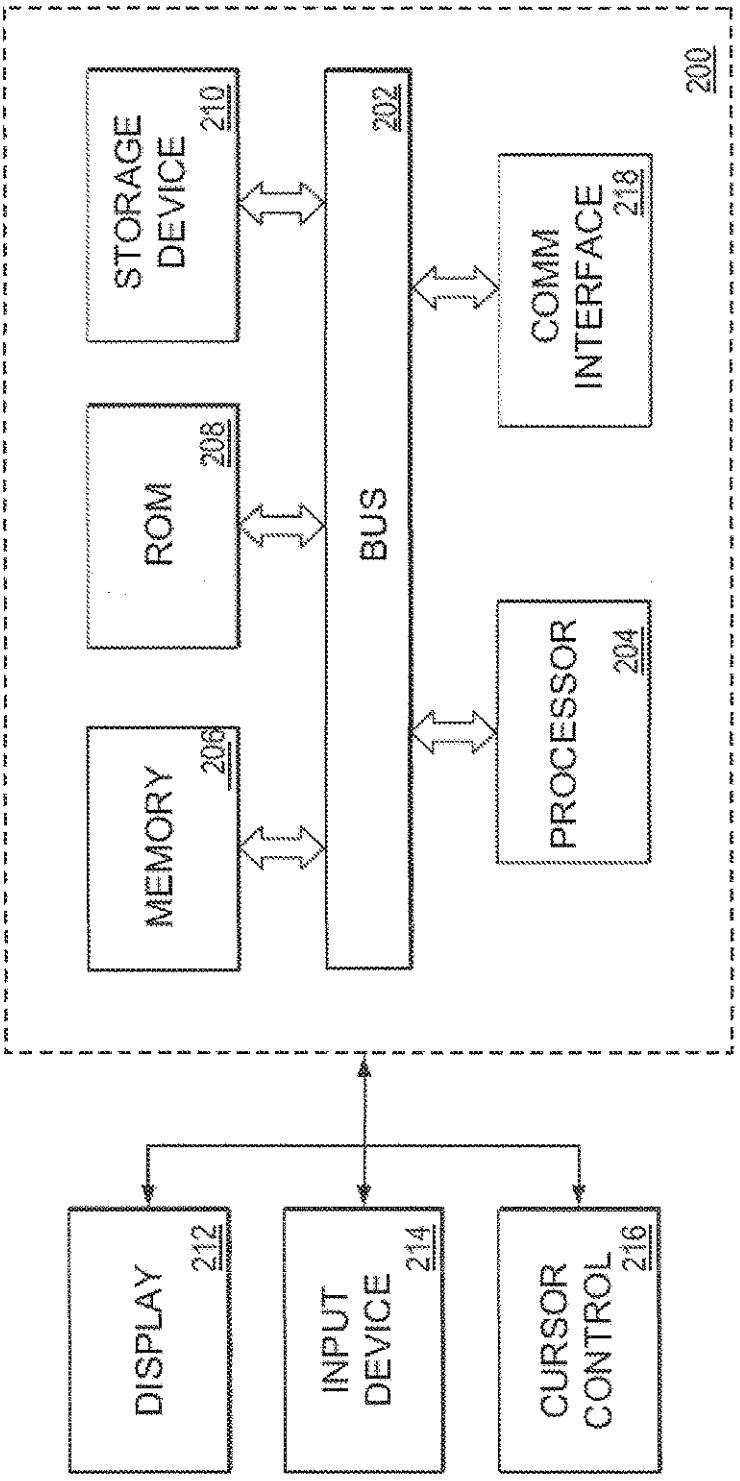

200
STORAGE DEVICE
210
202
COMM INTERFACE
218
ROM
208
BUS
MEMORY
206
PROCESSOR
204
DISPLAY
212
INPUT DEVICE
214
CURSOR CONTROL
216

FIG. 2

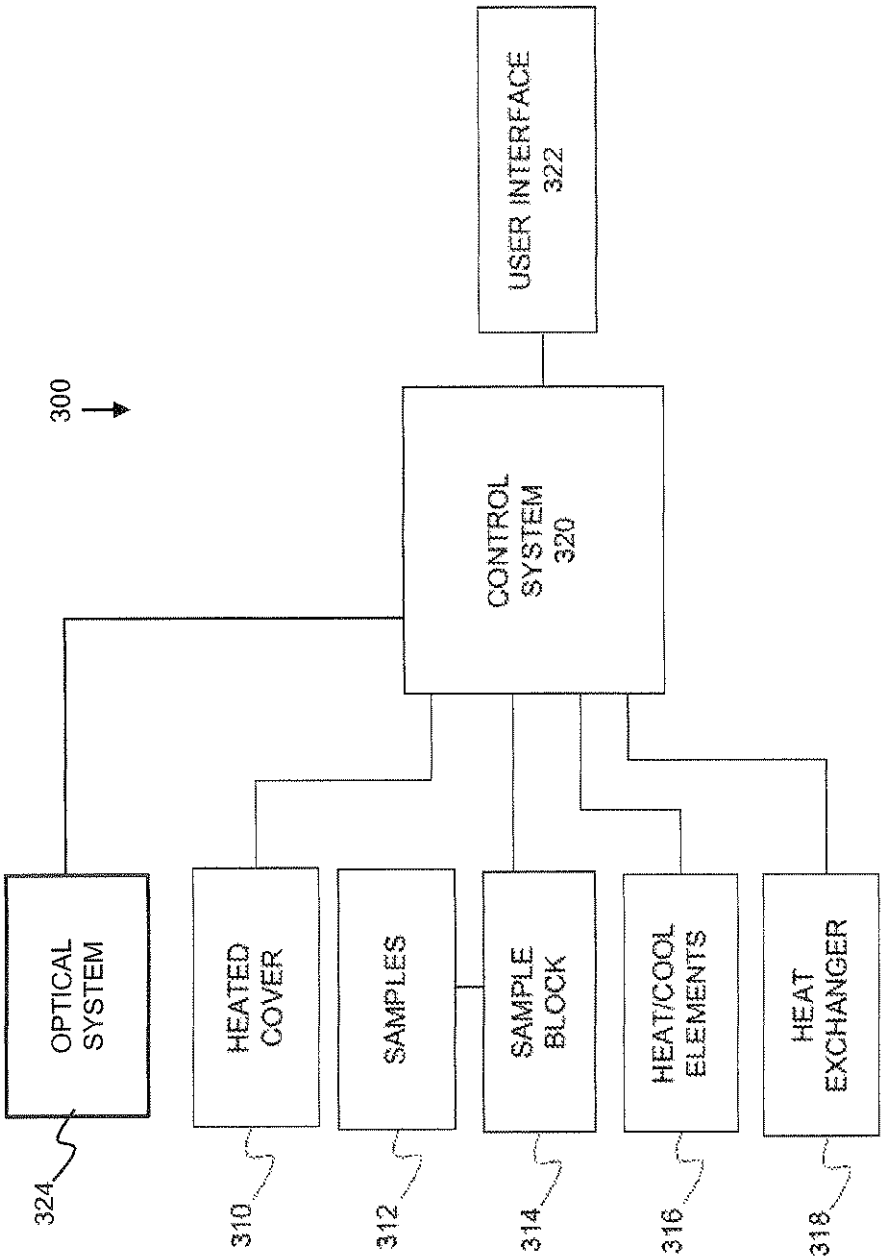

300
USER INTERFACE
322
CONTROL
SYSTEM
320
OPTICAL
SYSTEM
HEATED
COVER
SAMPLES
SAMPLE
BLOCK
HEAT/COOL
ELEMENTS
HEAT
EXCHANGER
324
310
312
314
316
318

FIG. 3

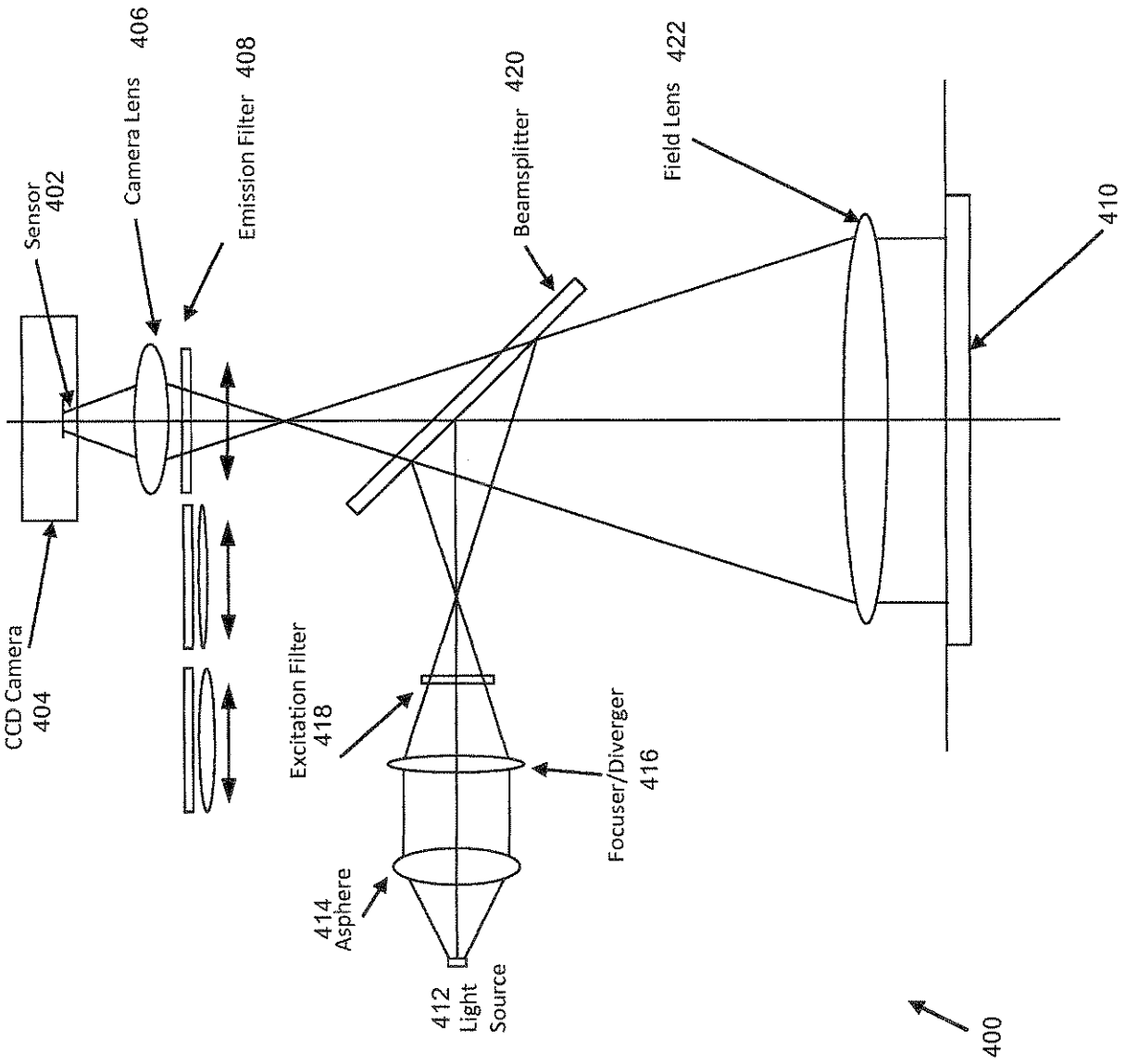

CCD Camera
404
Sensor
402
Camera Lens
406
Emission Filter
408
Excitation Filter
418
414
Asphere
412
Light
Source
Focuser/Diverger
416
Beamsplitter
420
Field Lens
422
410
400

FIG. 4

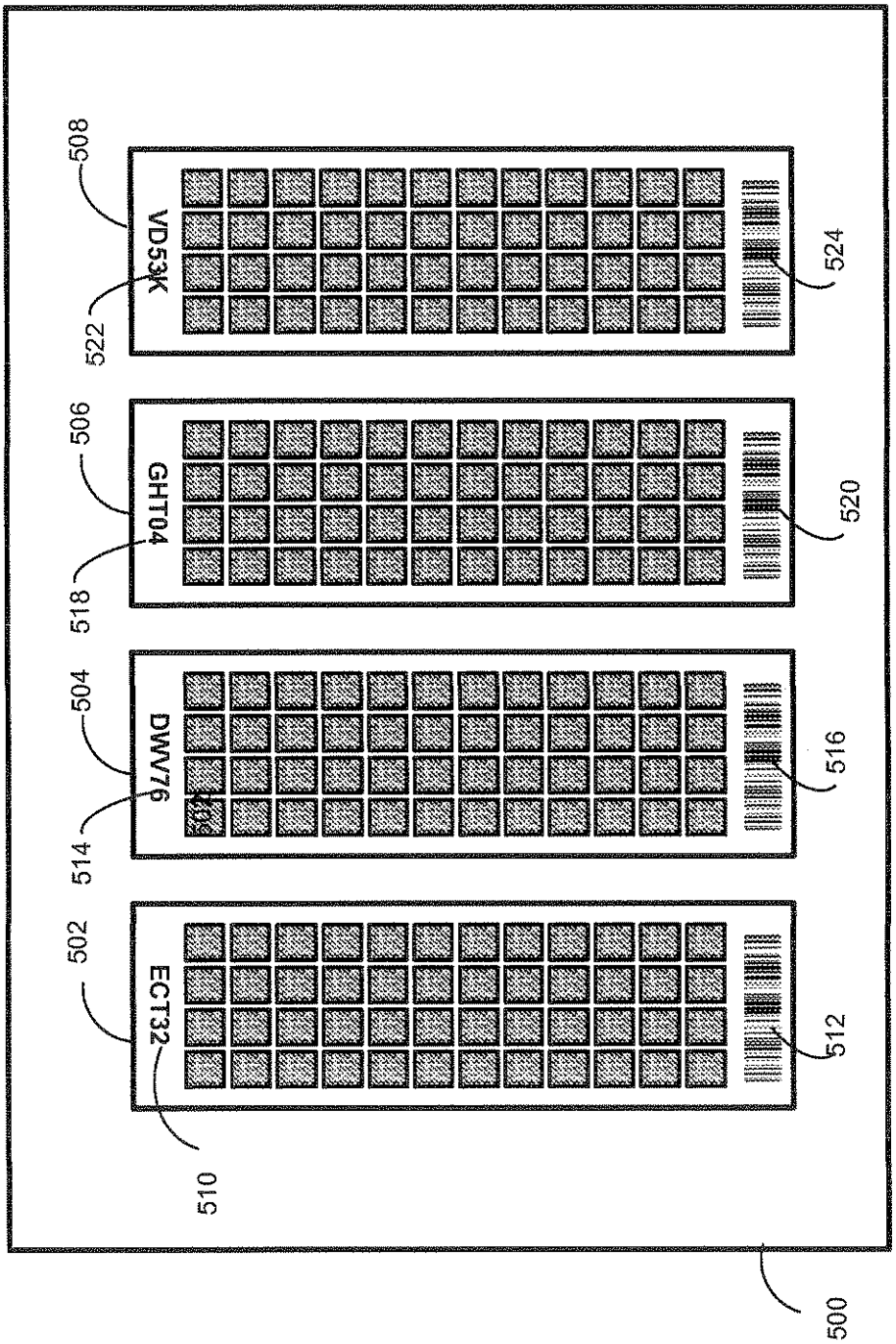

500
502
ECT32
504
DWV76
506
GHT04
508
VD53K
510
512
514
516
518
520
522
524

FIG. 5

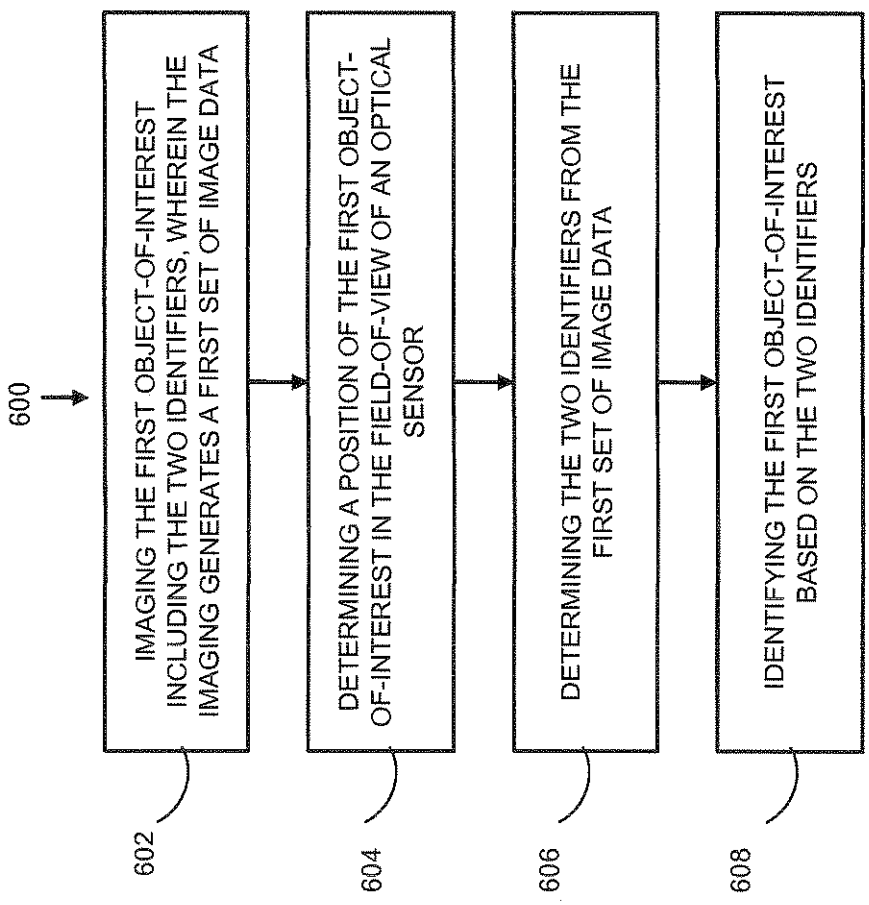

600
IMAGING THE FIRST OBJECT-OF-INTEREST INCLUDING THE TWO IDENTIFIERS, WHEREIN THE IMAGING GENERATES A FIRST SET OF IMAGE DATA
602
DETERMINING A POSITION OF THE FIRST OBJECT-OF-INTEREST IN THE FIELD-OF-VIEW OF AN OPTICAL SENSOR
604
DETERMINING THE TWO IDENTIFIERS FROM THE FIRST SET OF IMAGE DATA
606
IDENTIFYING THE FIRST OBJECT-OF-INTEREST BASED ON THE TWO IDENTIFIERS
608

FIG. 6

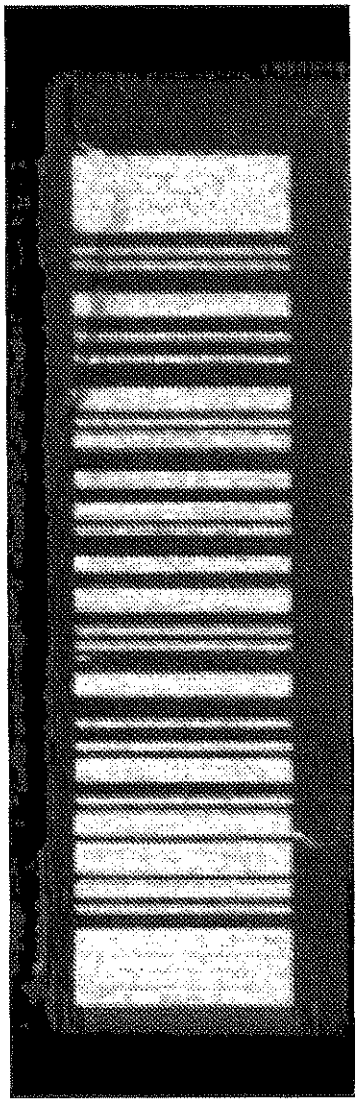


FIG. 7

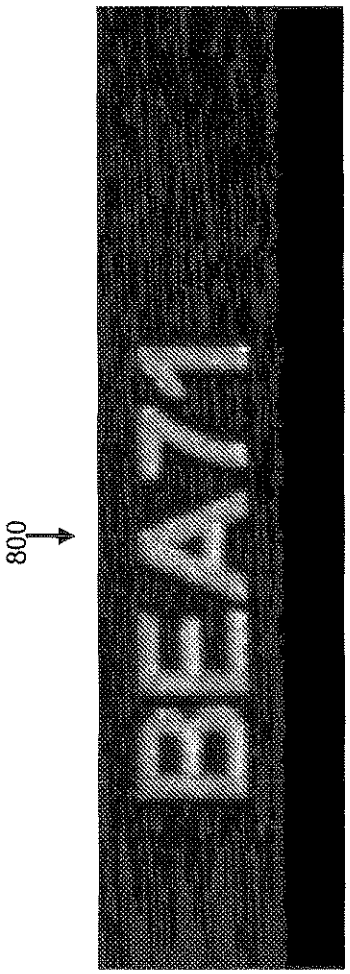


FIG. 8A

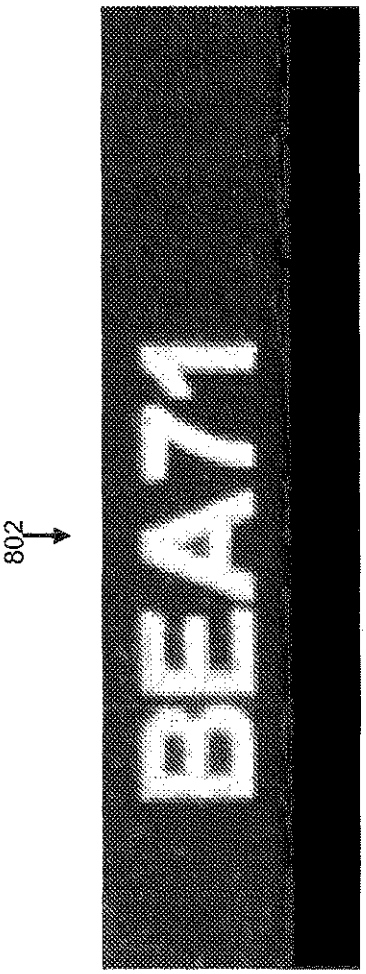


FIG. 8B

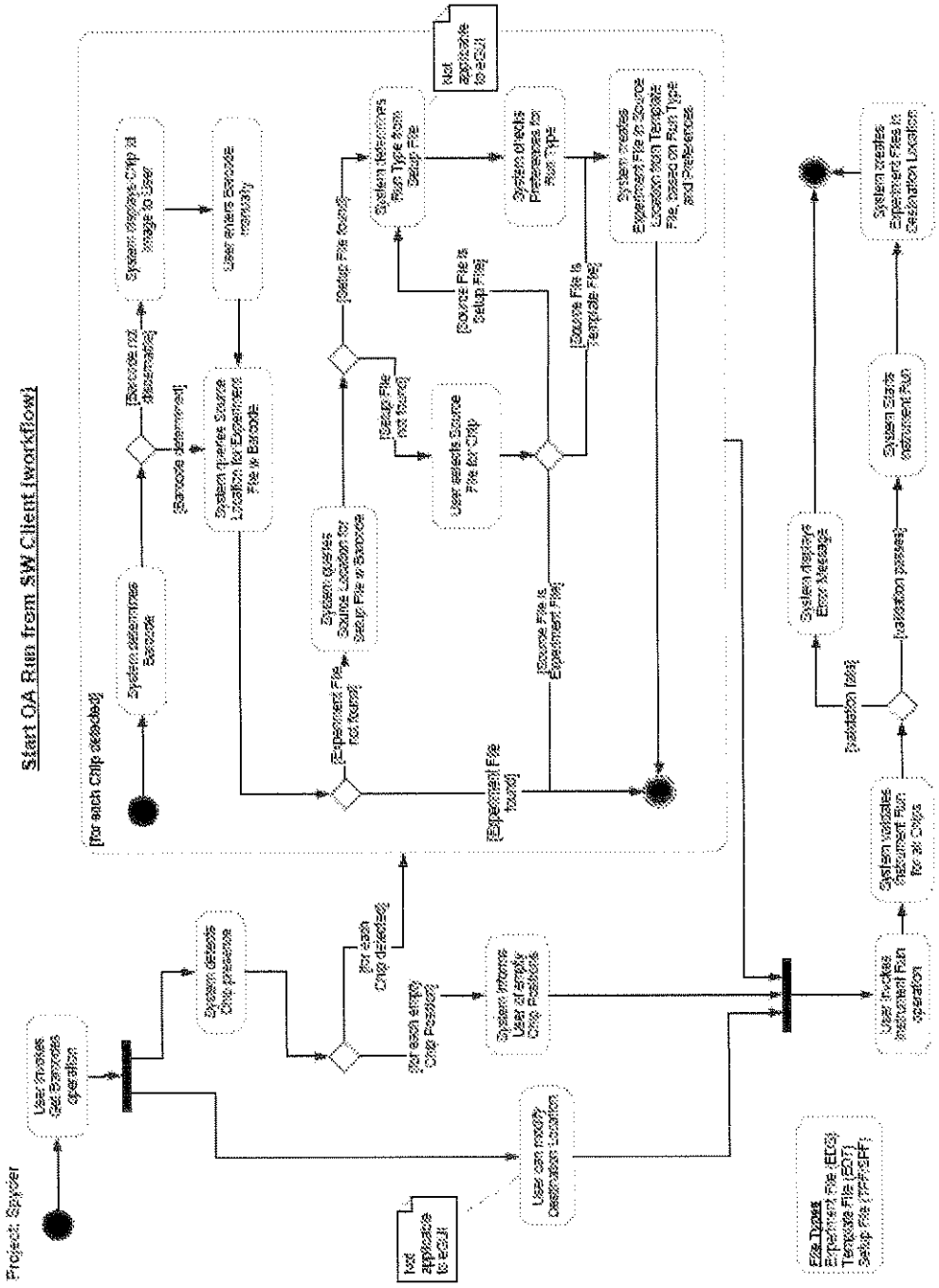

Start QA Run from SW Client Workflow
Project: Spyder
User invokes Set Barcodes operation
System detects Chip presence
For each Chip detected
For each empty Chip Position
System informs User of empty Chip Positions
User can modify Destination Location
Not applicable to eSDI
For each Chip detected
System determines Barcode
System displays Image to User
User enters Barcode manually
[Barcode not determined]
[Barcode determined]
Barcode determined
System queries Source Location for Experiment File w Barcode
[Experiment File not found]
System queries Source Location for Setup File w Barcode
[Setup File not found]
User selects Source File for Chip
[Setup File found]
[Source File is Setup File]
[Source File is Template File]
[Experiment File found]
[Source File is Experiment File]
Not applicable to eSDI
System determines Run Type from Setup File
System checks Preferences for Run Type
System creates Experiment File in Source Location from Template File, based on Run Type and Preferences
User invokes Instrument Run operation
System validates Instrument Run for all Chips
[validation fails]
System displays Error Messages
[validation passes]
System starts Instrument Run
System creates Experiment Files in Destination Location
File Types
Experiment File (.EDS)
Template File (.EDT)
Setup File (.RSF/.SPF)

FIG. 9