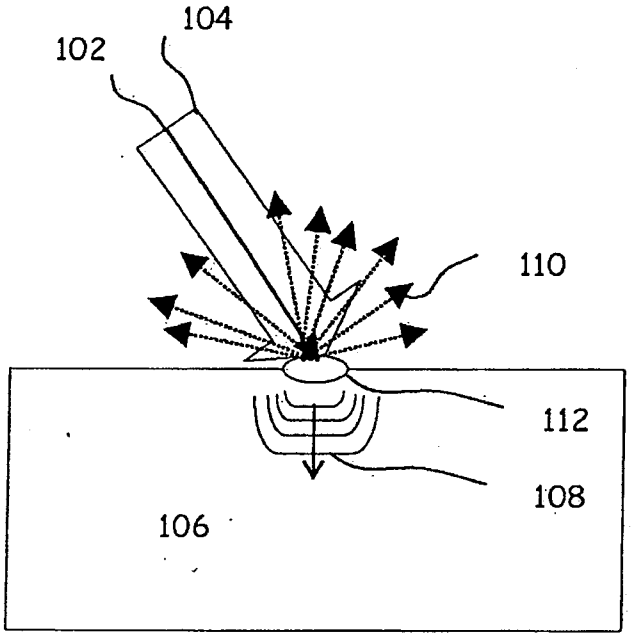


FIG. 1

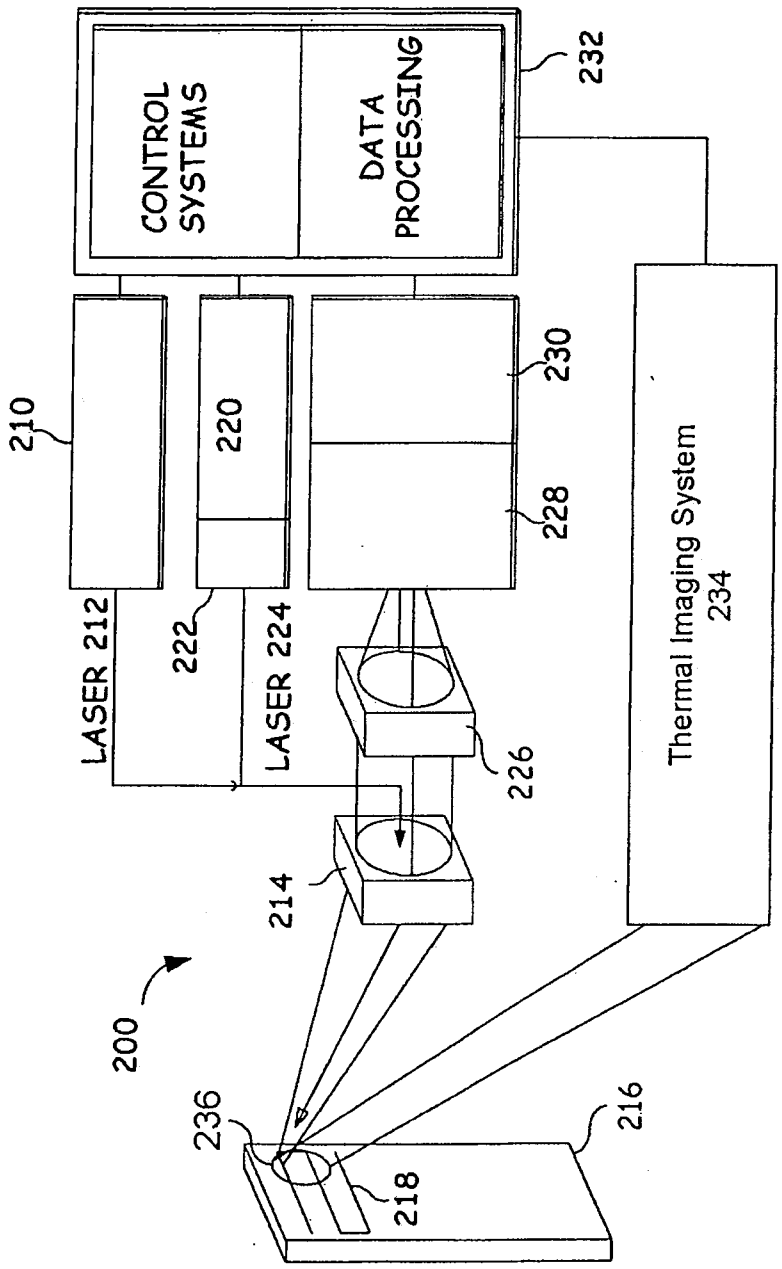

CONTROL SYSTEMS
DATA PROCESSING
232
210
220
230
228
LASER 212
222
LASER 224
226
214
200
236
216
218
Thermal Imaging System
234

FIG. 2

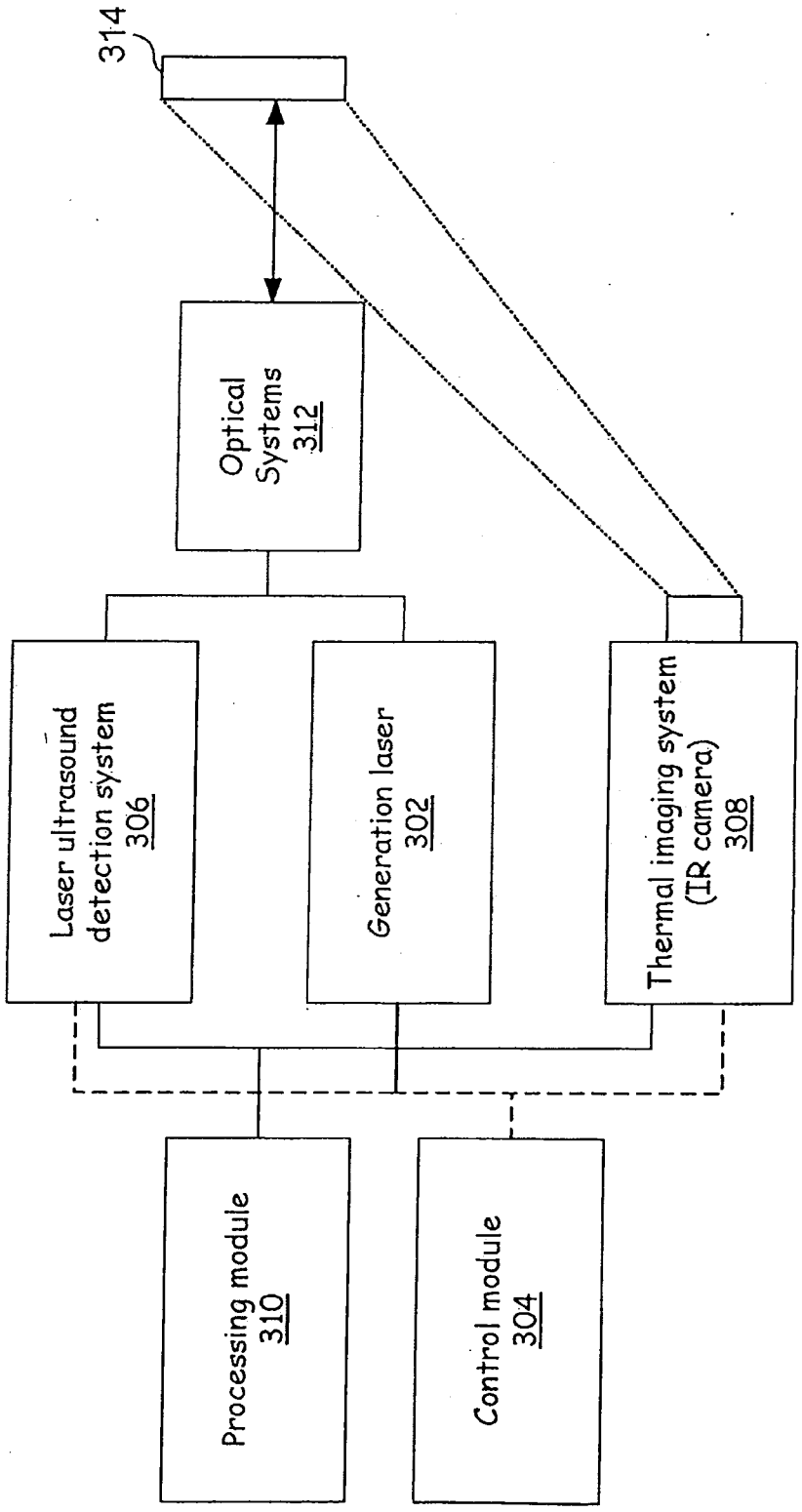

314
Optical Systems 312
Laser ultrasound detection system 306
Generation laser 302
Thermal imaging system (IR camera) 308
Processing module 310
Control module 304

FIG. 3

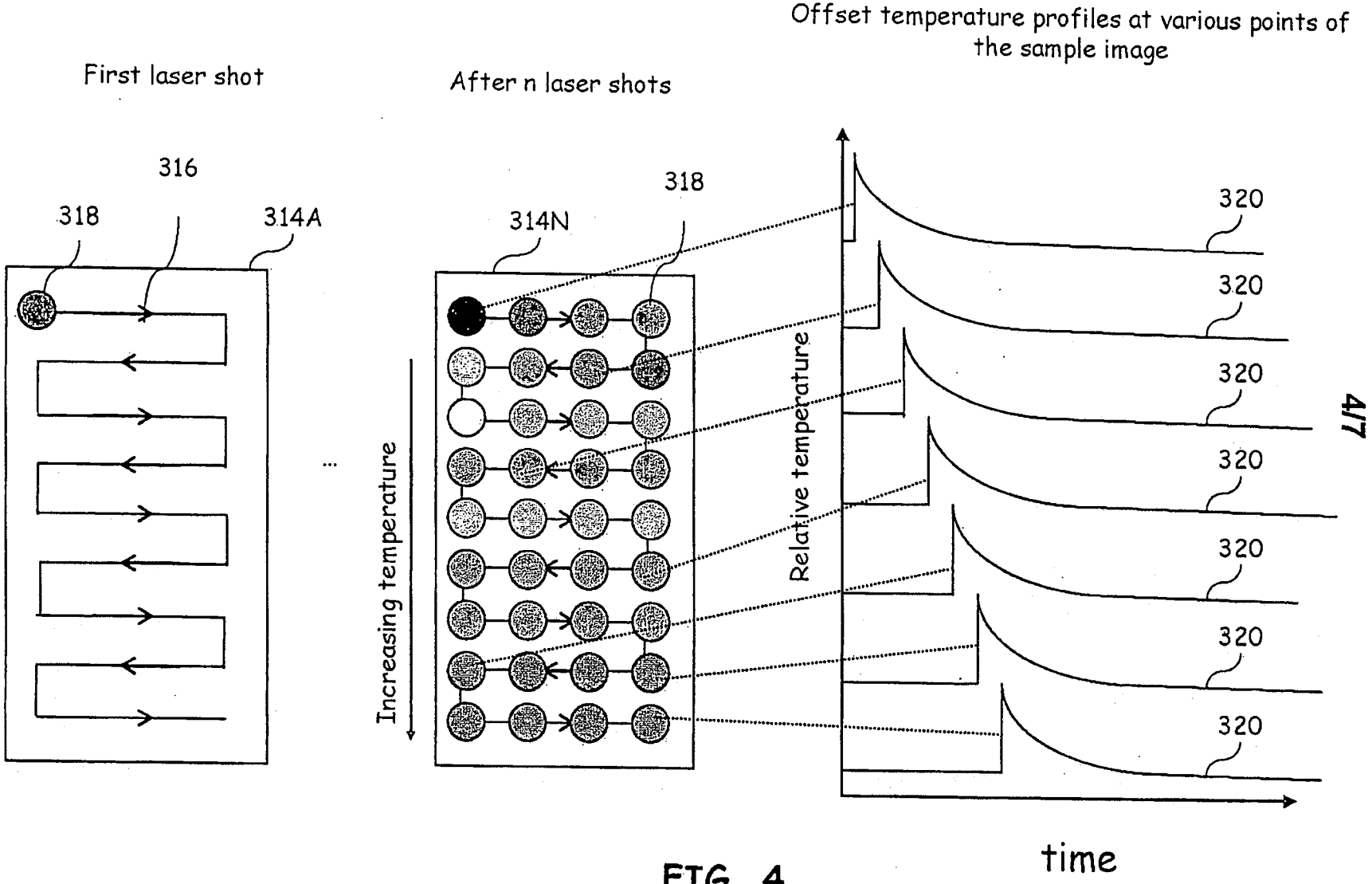

First laser shot
After n laser shots
Offset temperature profiles at various points of the sample image
316
318
314A
318
314N
320
320
320
320
320
320
320
Increasing temperature
Relative temperature
time
417

FIG. 4

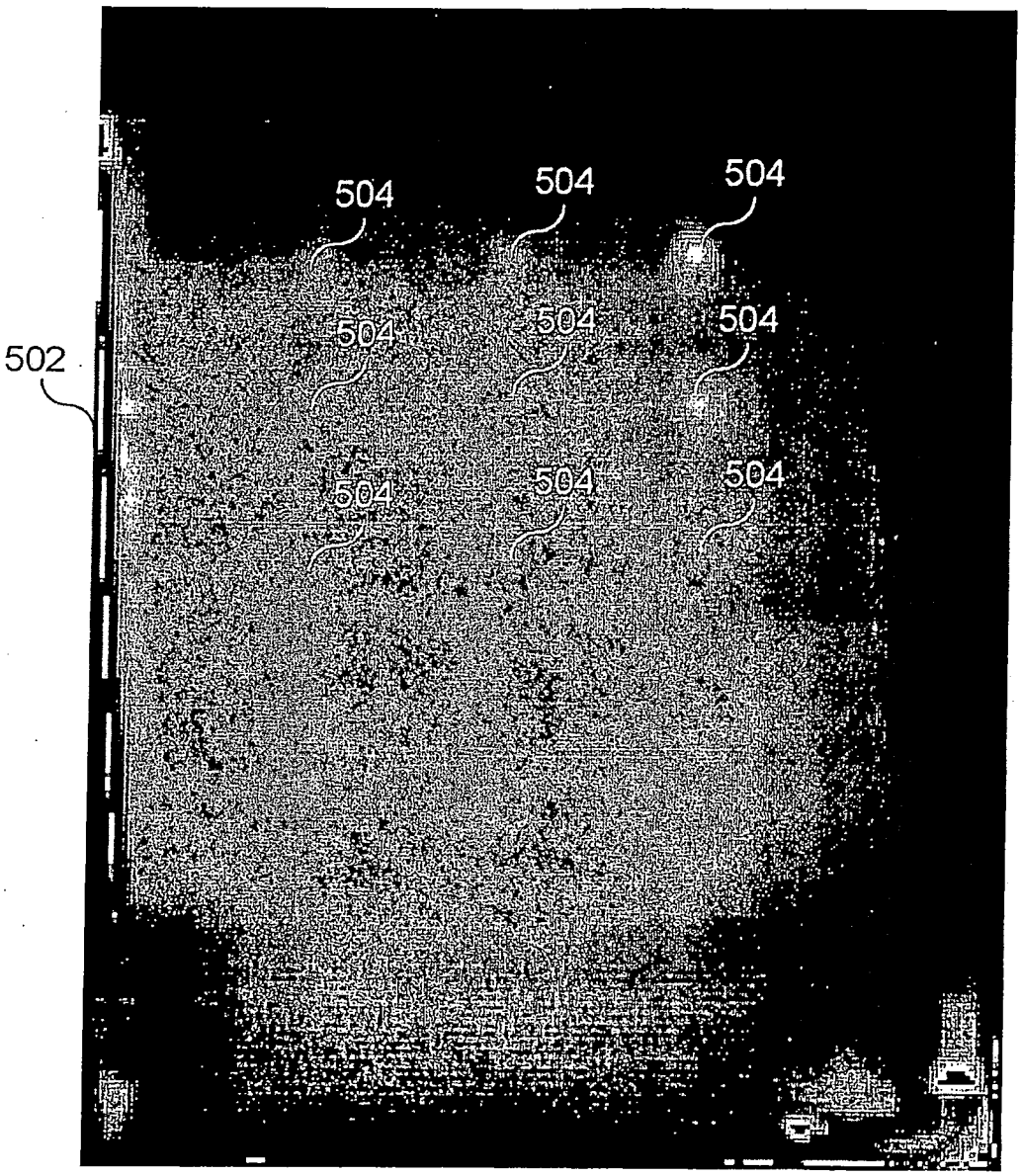


FIG. 5

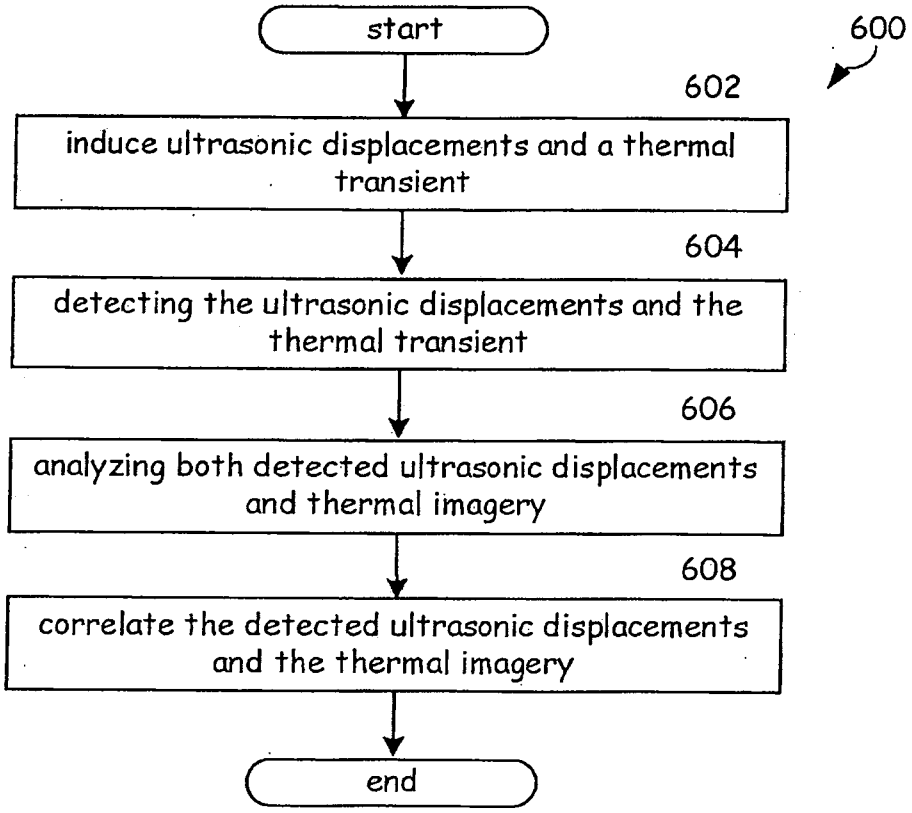

start
600
602
induce ultrasonic displacements and a thermal transient
604
detecting the ultrasonic displacements and the thermal transient
606
analyzing both detected ultrasonic displacements and thermal imagery
608
correlate the detected ultrasonic displacements and the thermal imagery
end

FIG. 6

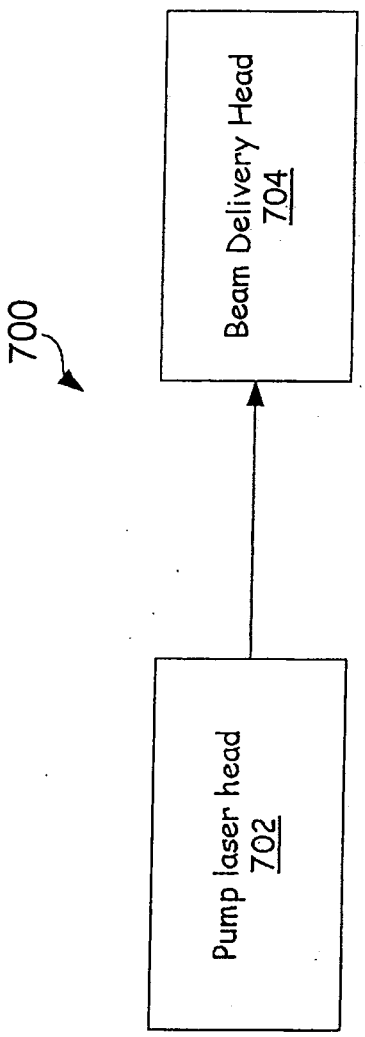


FIG. 7