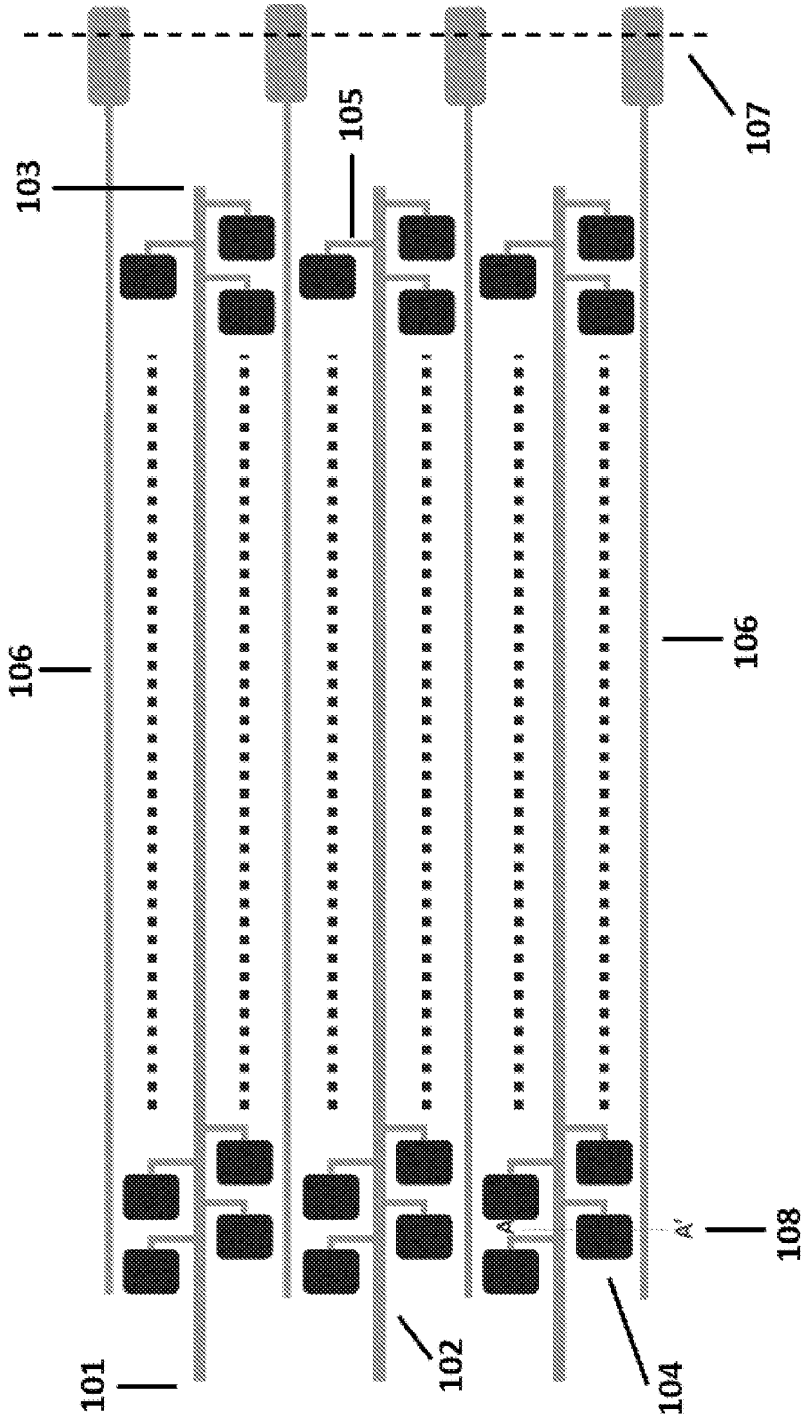


FIG. 1A

fexamp

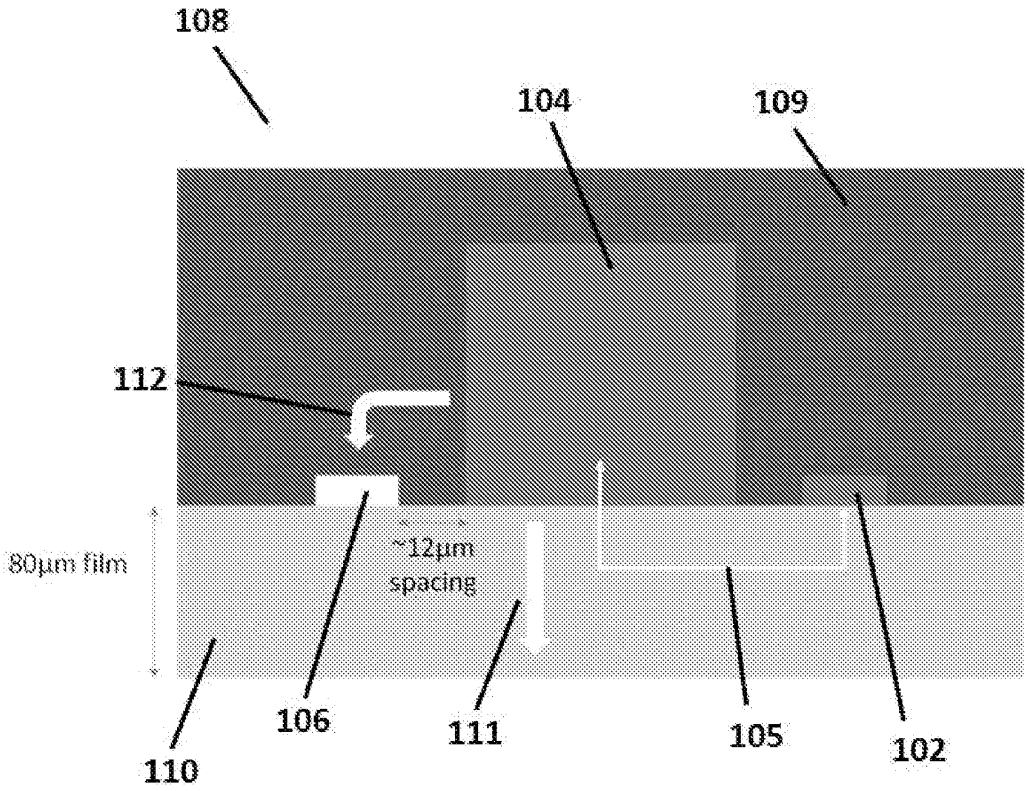


FIG. 1B

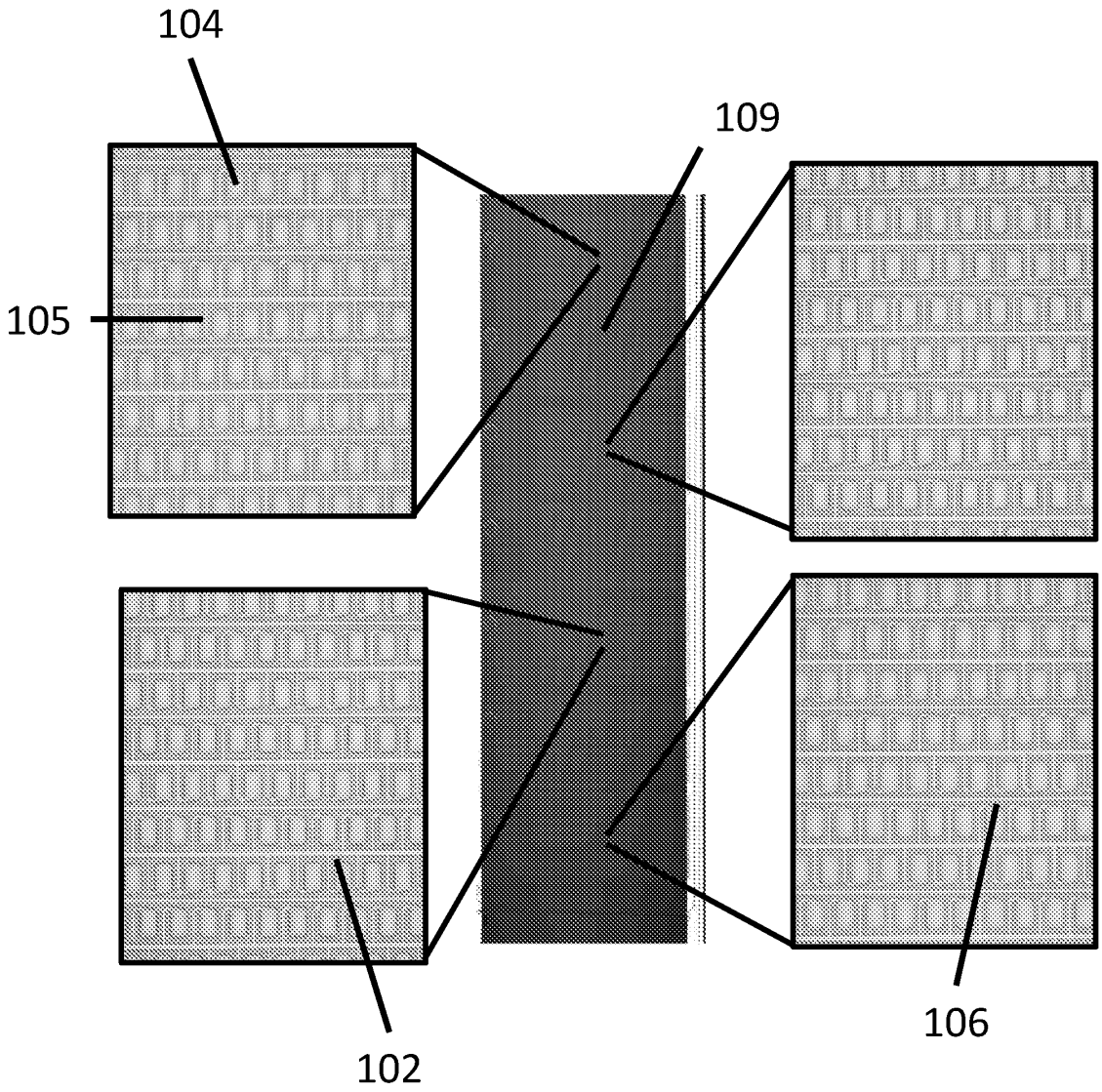


FIG. 1C

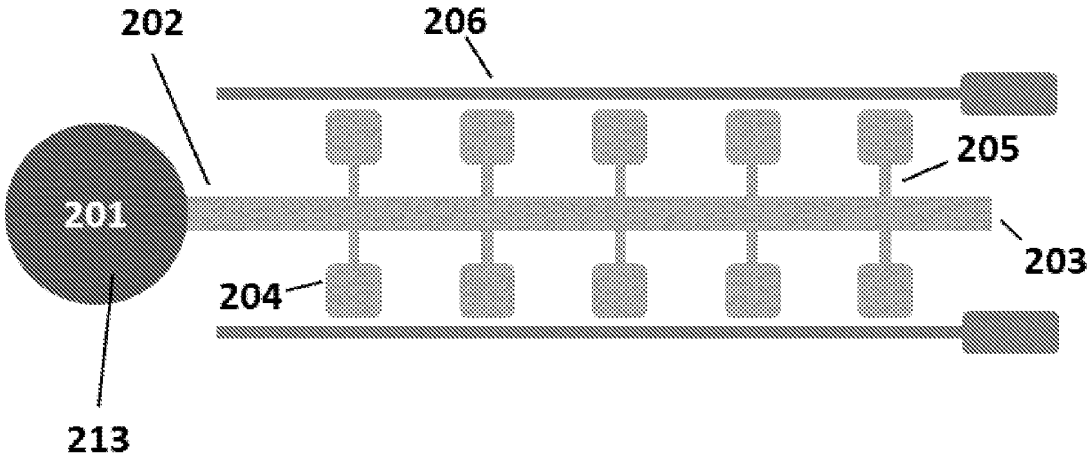


FIG. 2A

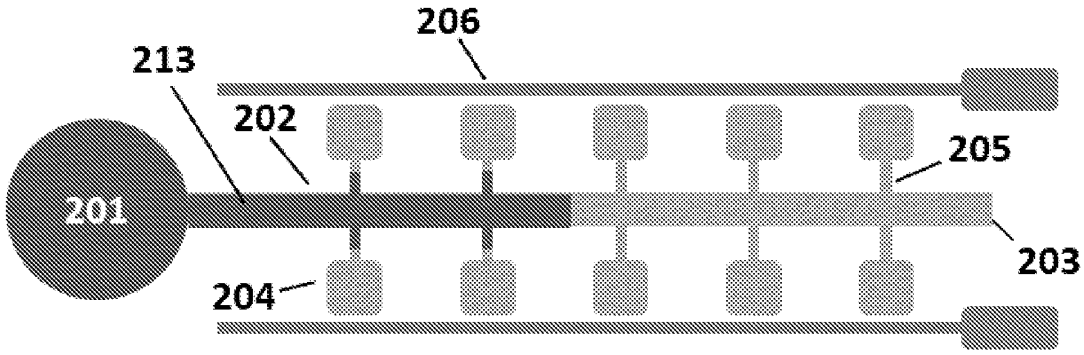


FIG. 2B

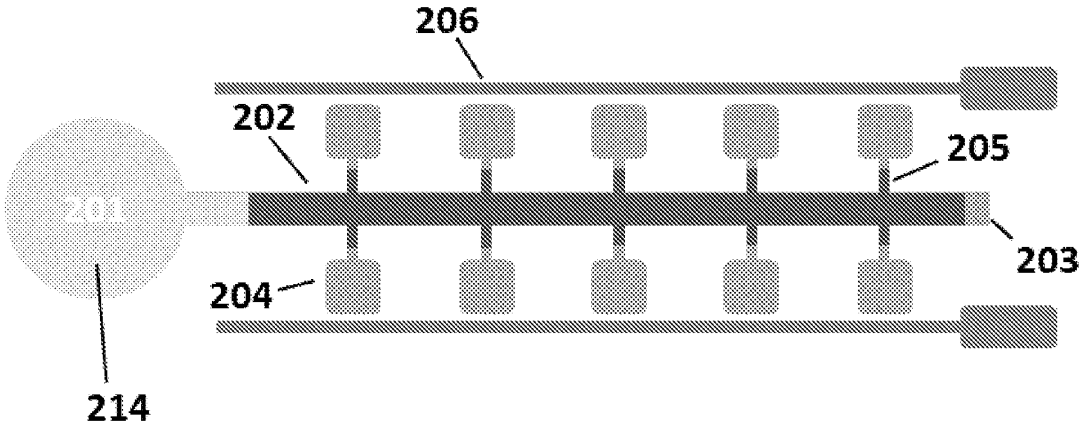


FIG. 2C

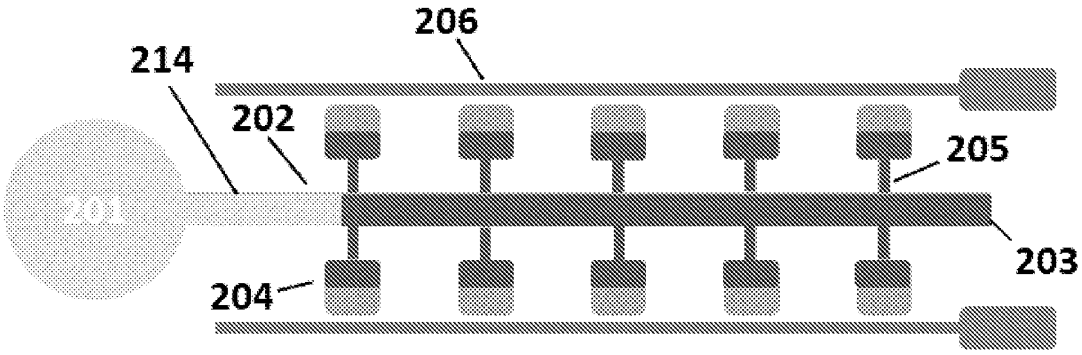


FIG. 2D

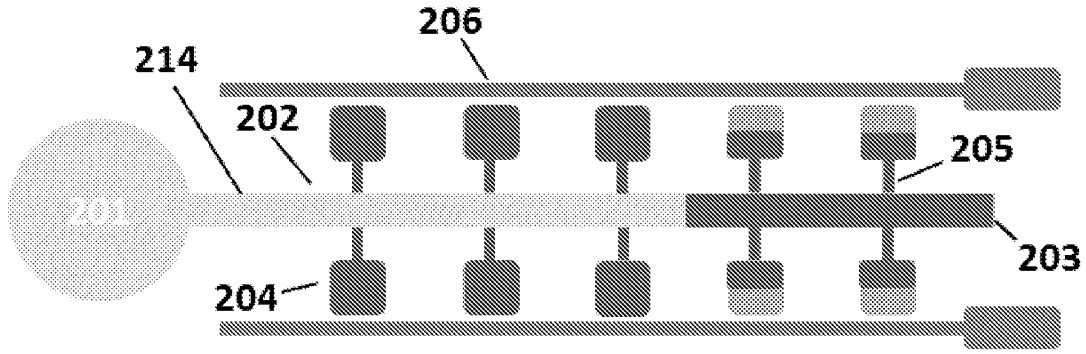


FIG. 2E

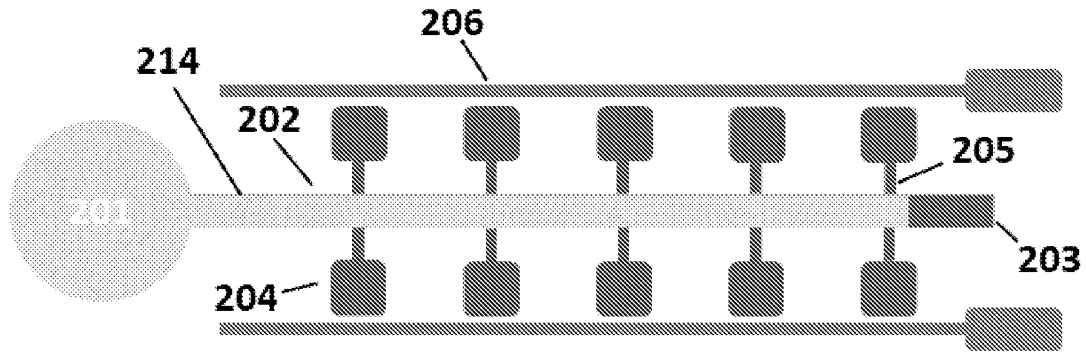


FIG. 2F

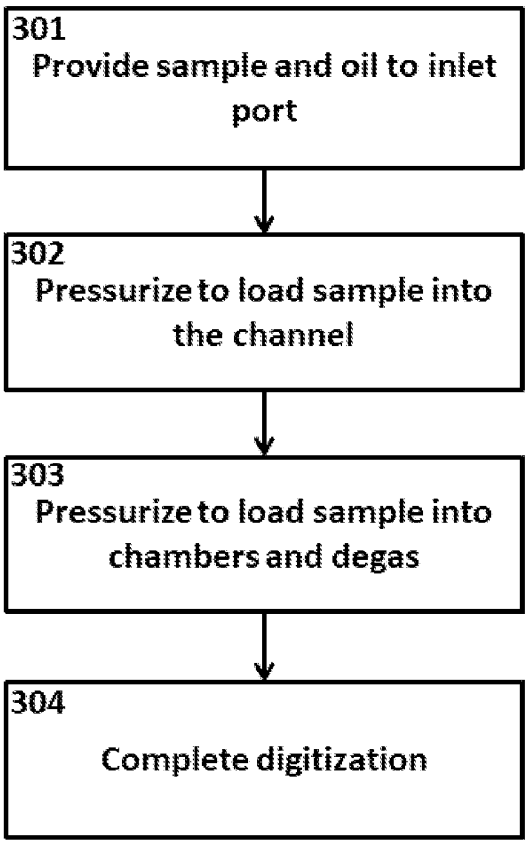

301
Provide sample and oil to inlet port
302
Pressurize to load sample into the channel
303
Pressurize to load sample into chambers and degas
304
Complete digitization

FIG. 3

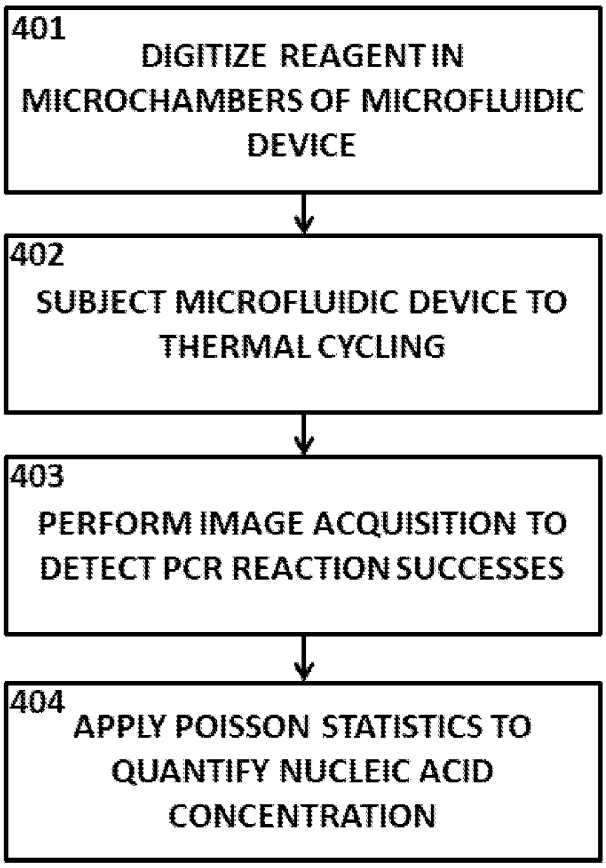

401
DIGITIZE REAGENT IN MICROCHAMBERS OF MICROFLUIDIC DEVICE
402
SUBJECT MICROFLUIDIC DEVICE TO THERMAL CYCLING
403
PERFORM IMAGE ACQUISITION TO DETECT PCR REACTION SUCCESSES
404
APPLY POISSON STATISTICS TO QUANTIFY NUCLEIC ACID CONCENTRATION

FIG. 4

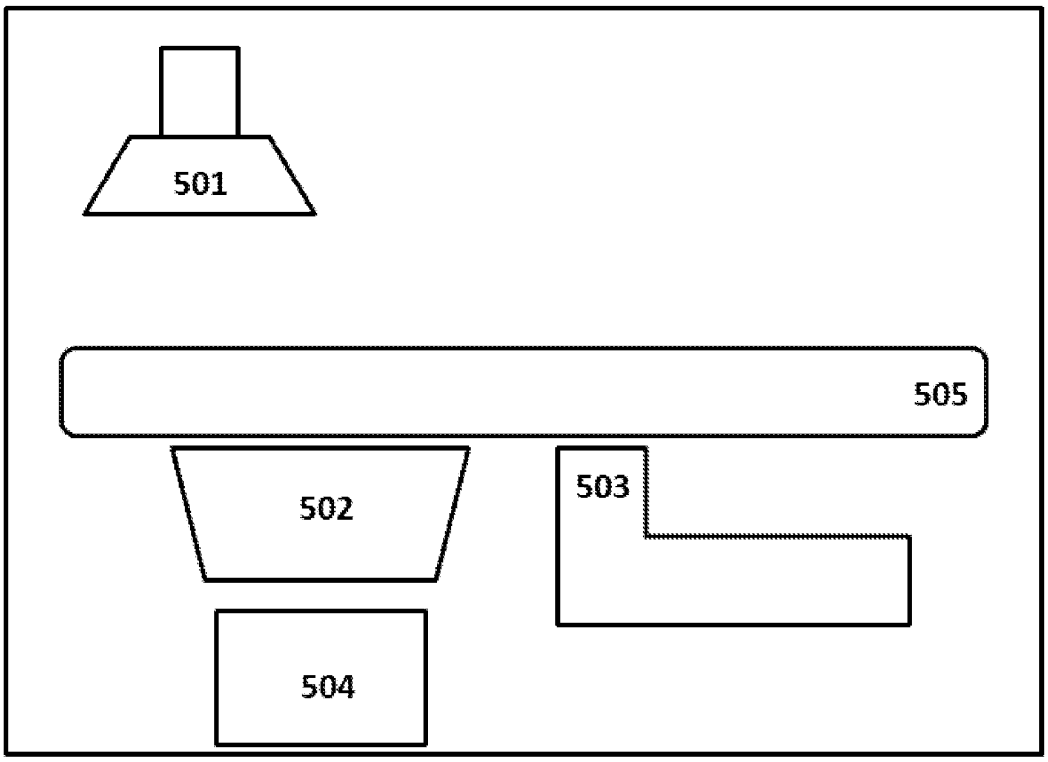


FIG. 5

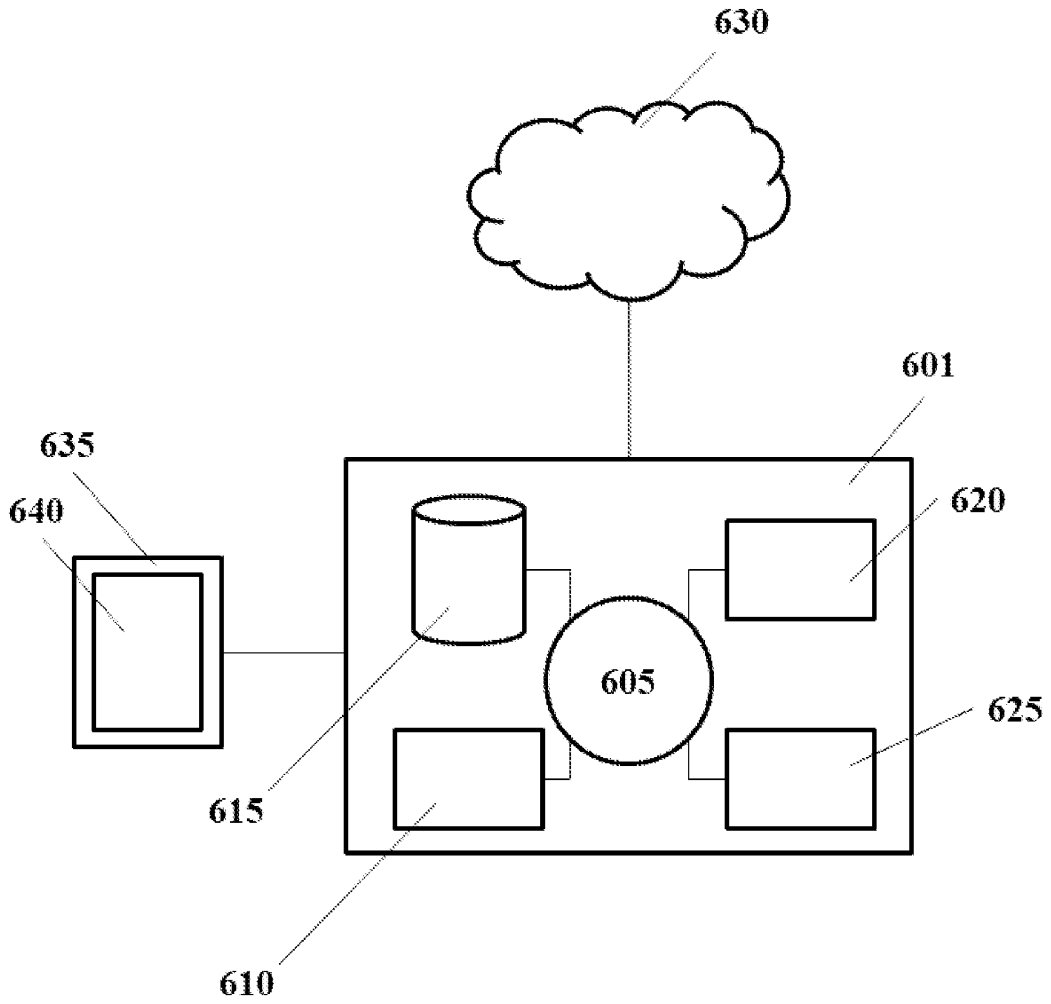


FIG. 6

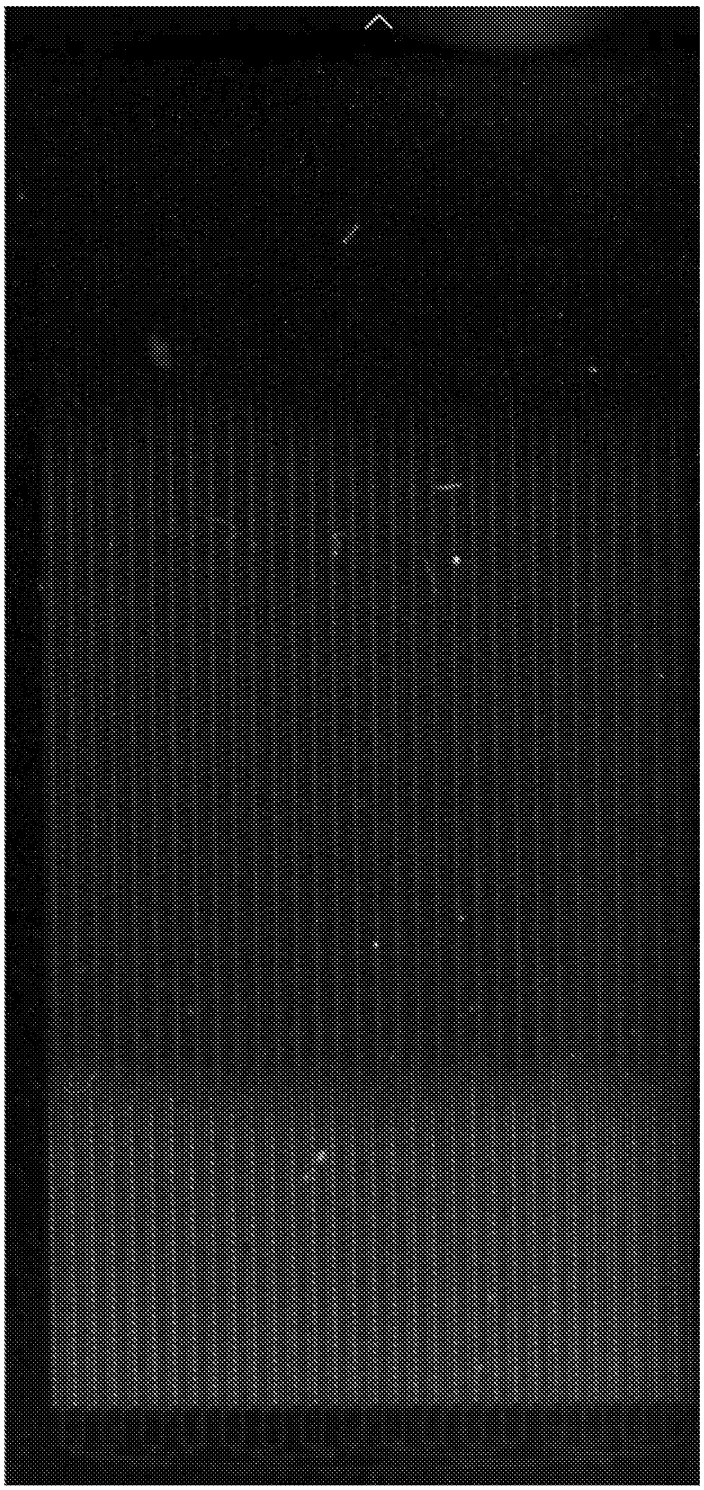


FIG. 7A

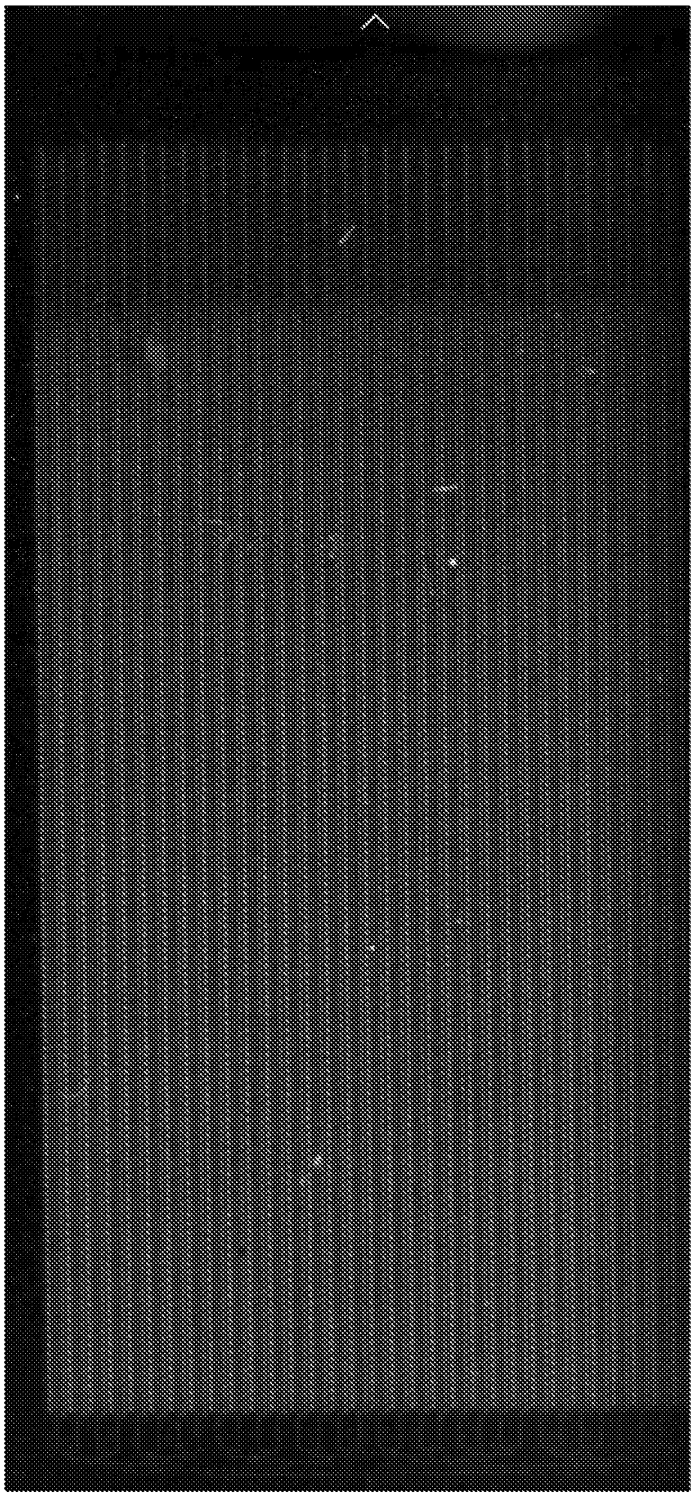


FIG. 7B

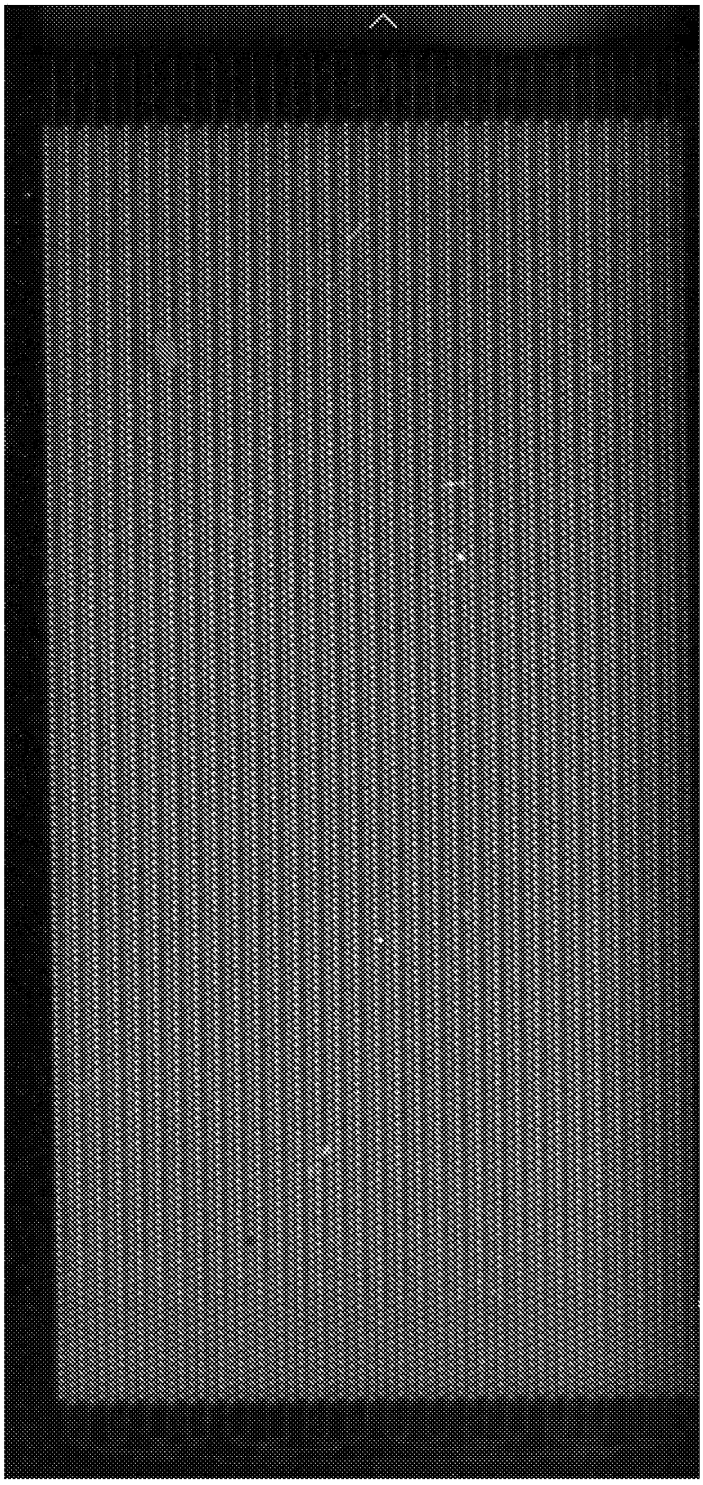


FIG. 7C

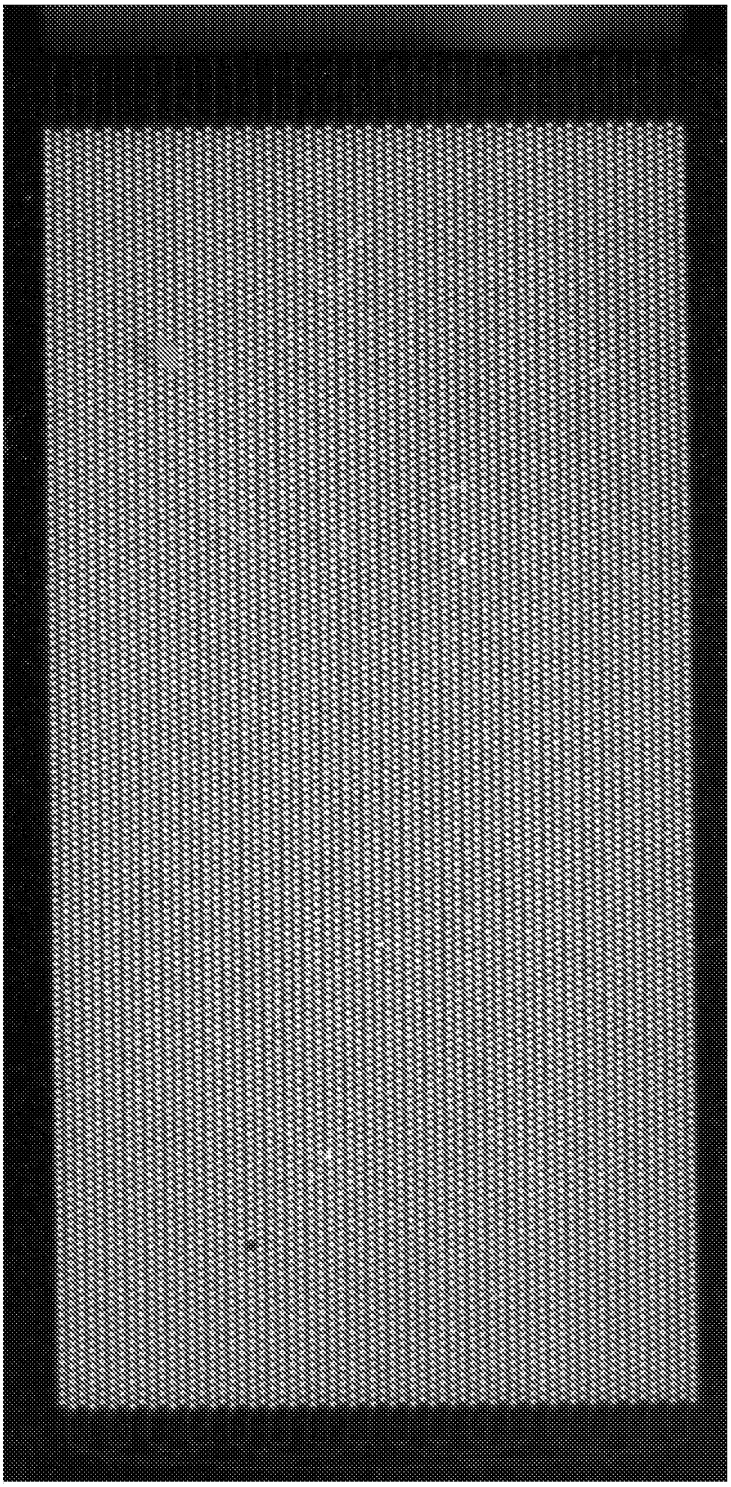


FIG. 7D

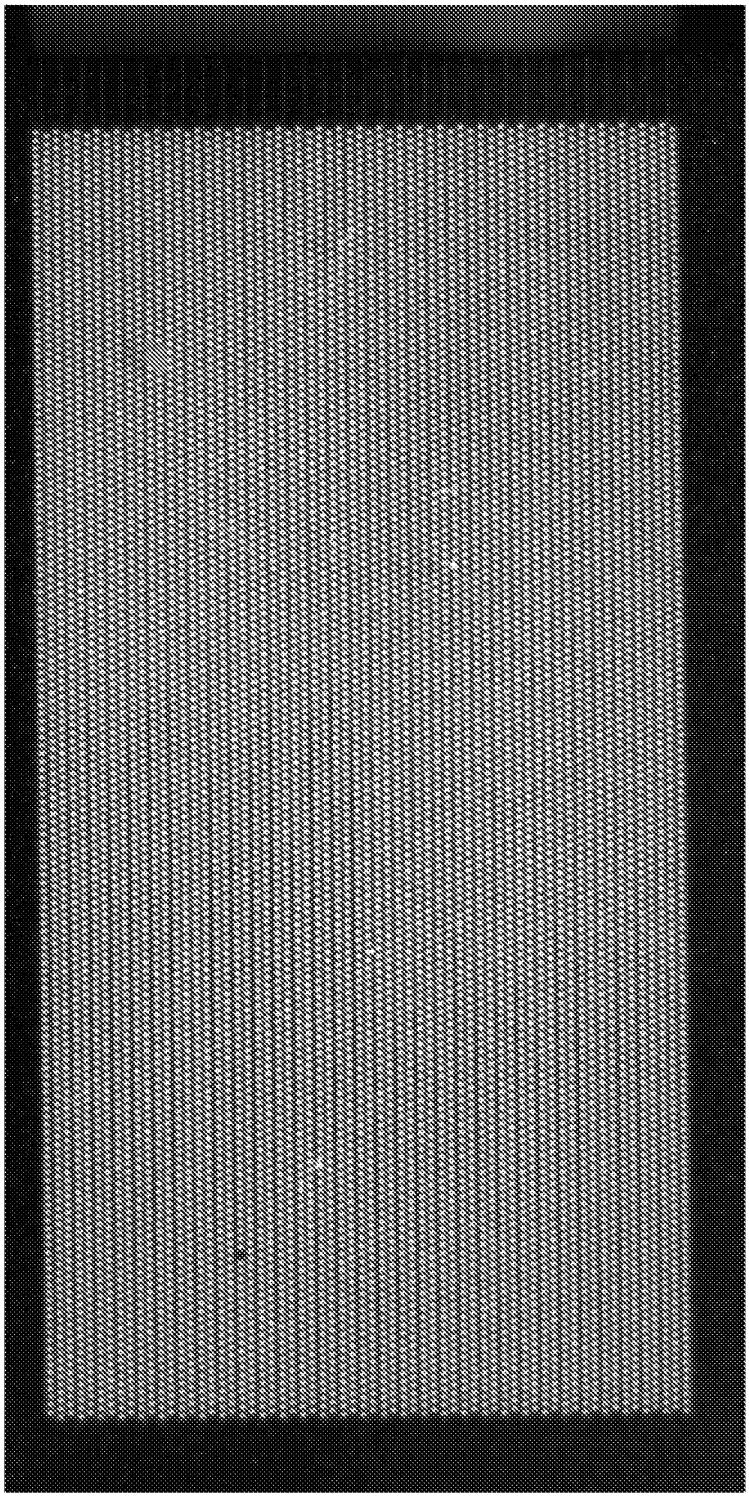


FIG. 7E

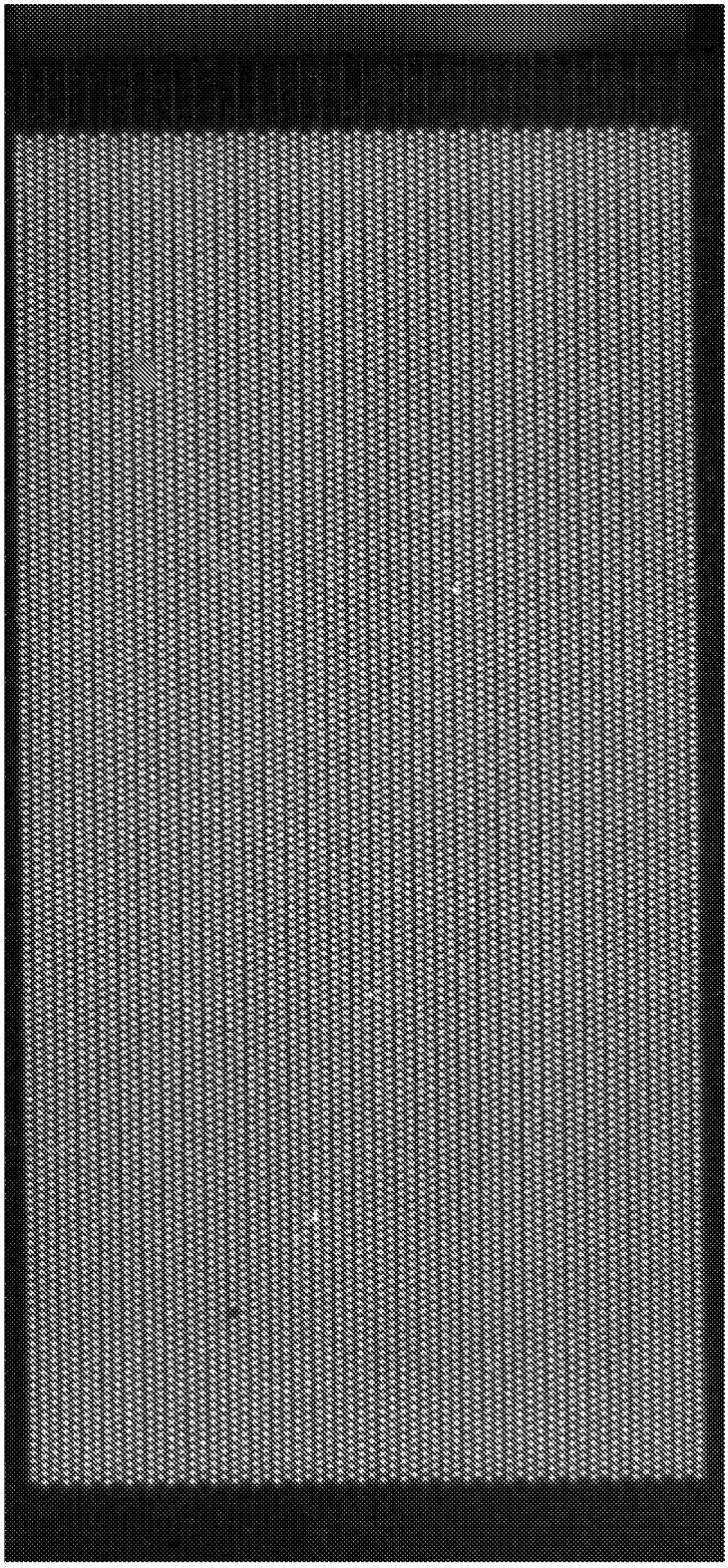


FIG. 7F

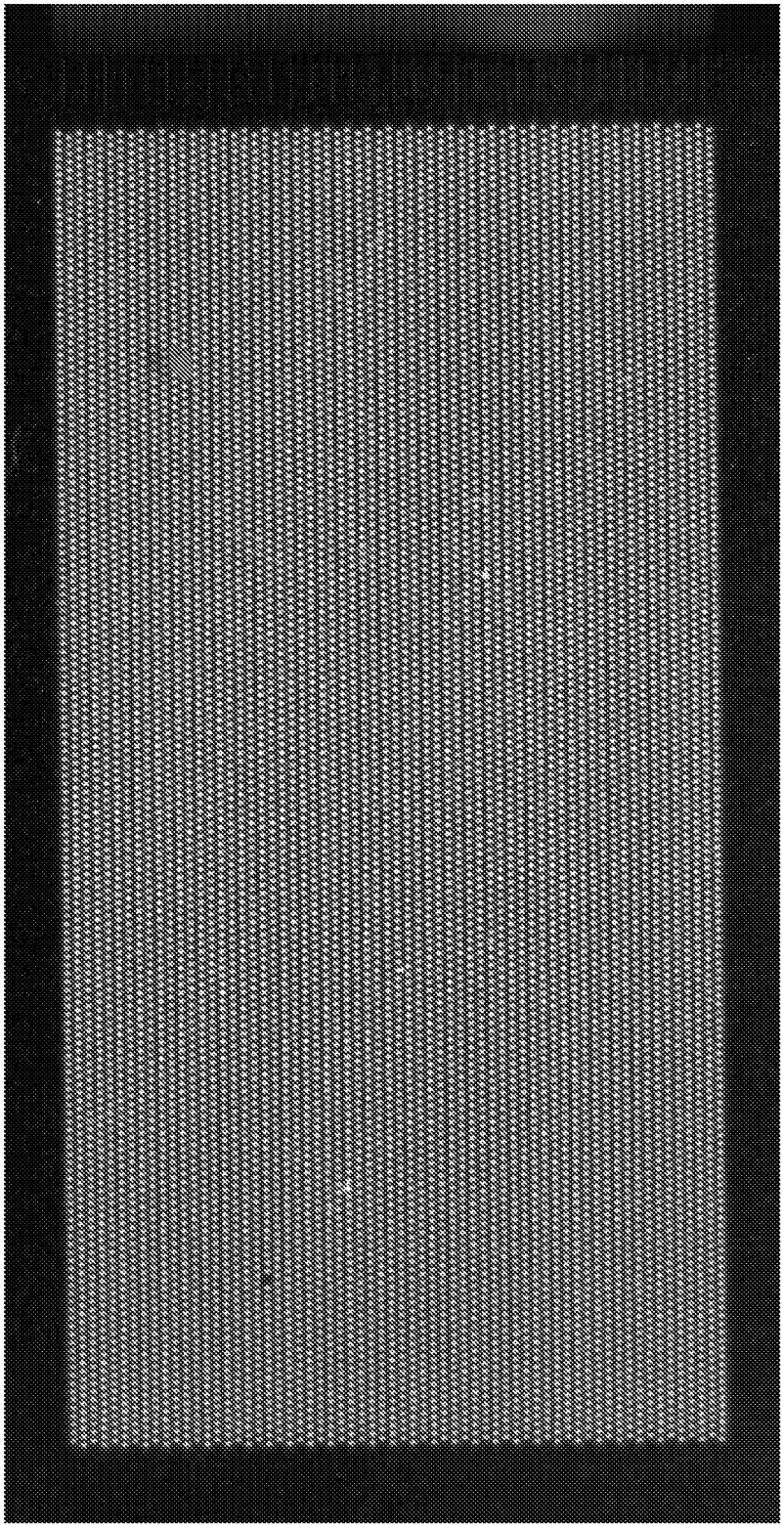


FIG. 7G