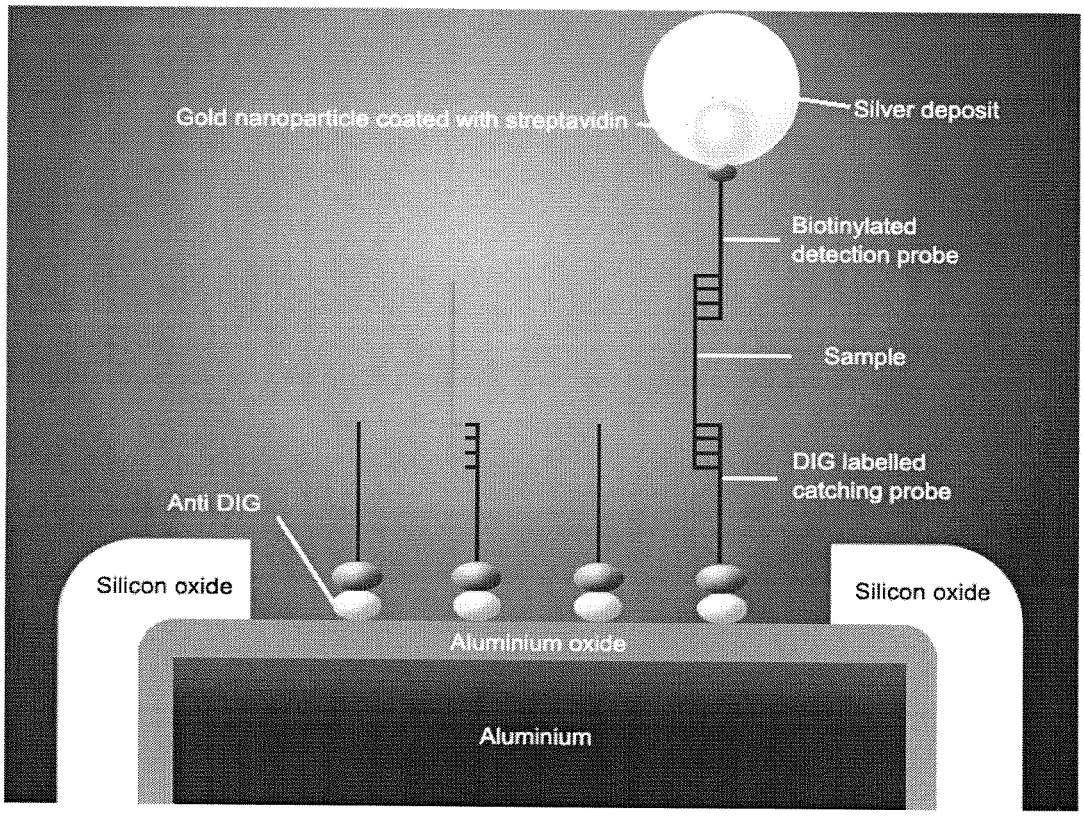

Gold nanoparticle coated with streptavidin
Silver deposit
Biotinylated detection probe
Sample
DIG labelled catching probe
Anti DIG
Silicon oxide
Silicon oxide
Aluminium oxide
Aluminium

FIG. 1

With capture probe

Before hybridization

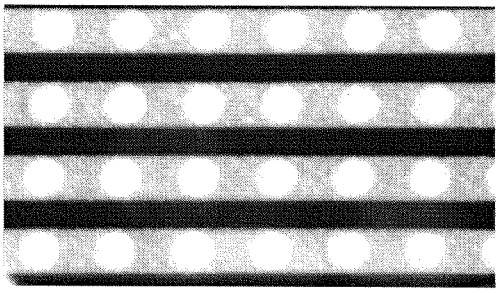


FIG. 2(a)

After signal formation

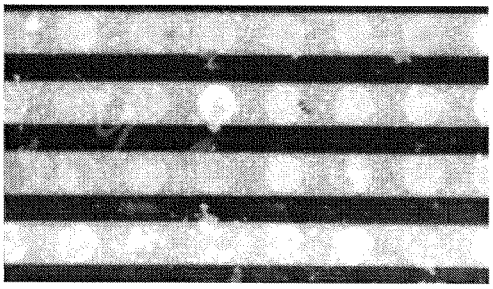


FIG. 2(b)

Without capture probe

Before hybridization

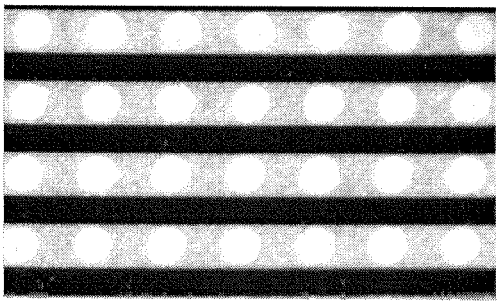


FIG. 2(c)

After signal formation

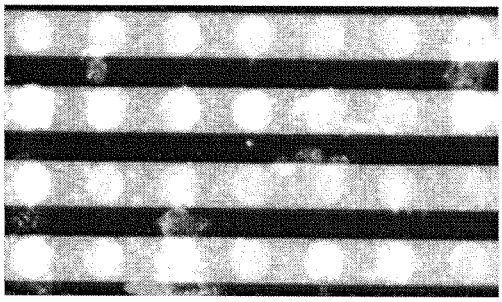


FIG. 2(d)

With target nucleic acid

Before hybridization

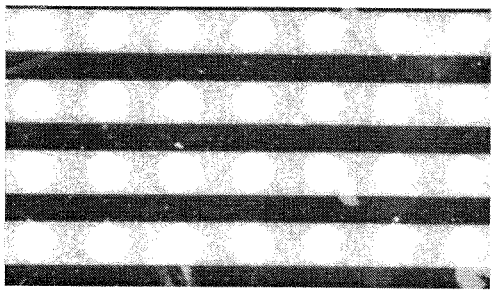


FIG. 3(a)

After hybridization

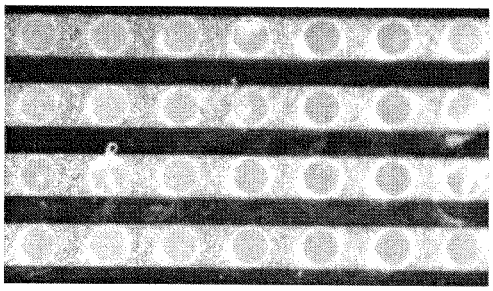


FIG. 3(b)

Without target nucleic acid

Before hybridization

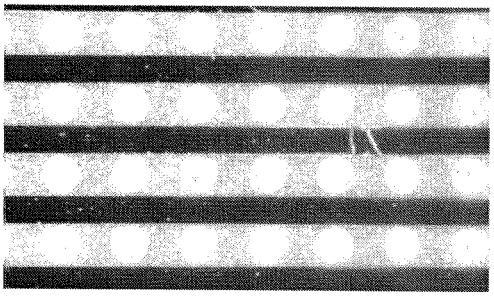


FIG. 3(c)

After hybridization

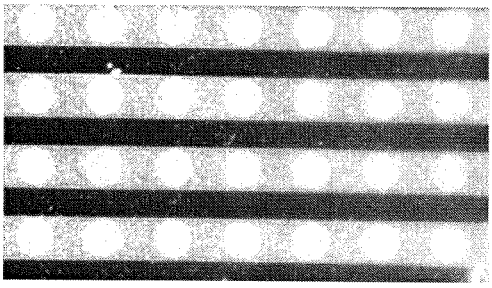


FIG. 3(d)

With target nucleic acid
(undiluted)

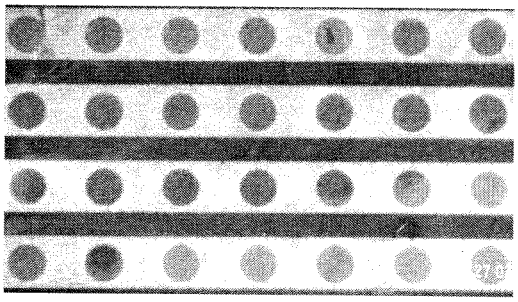


FIG. 4(a)

With target nucleic acid
(5-fold dilution)

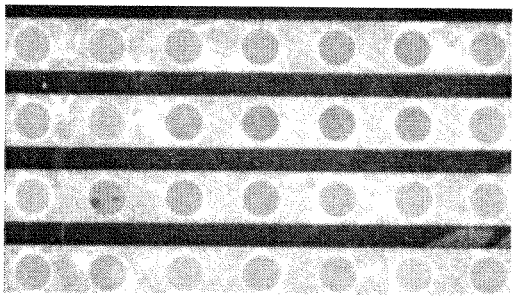


FIG. 4(b)

With target nucleic acid
(10-fold diluted)

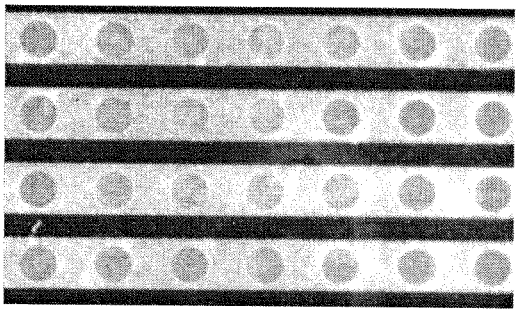


FIG. 4(c)

Without target nucleic acid

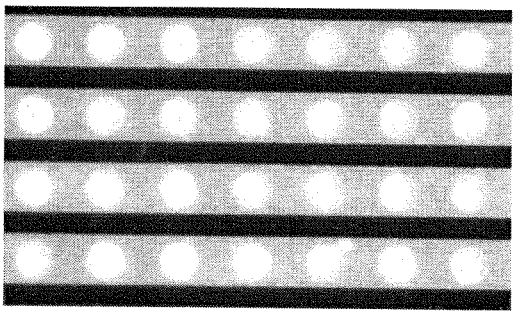


FIG. 4(d)

DIG capture concentration

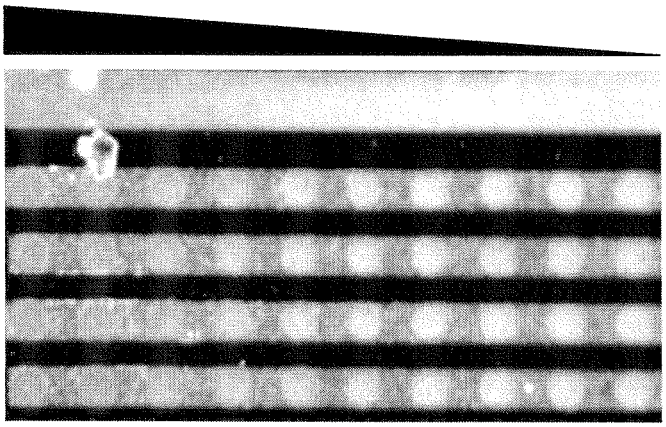


FIG. 5