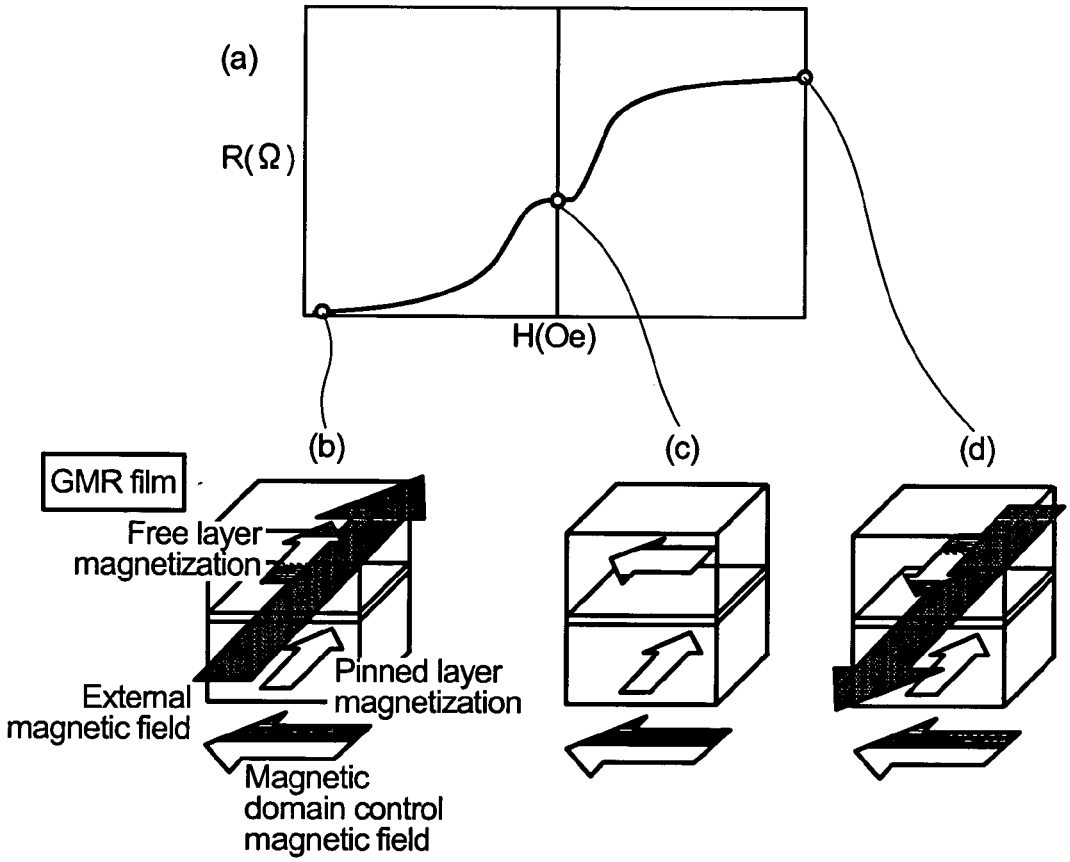
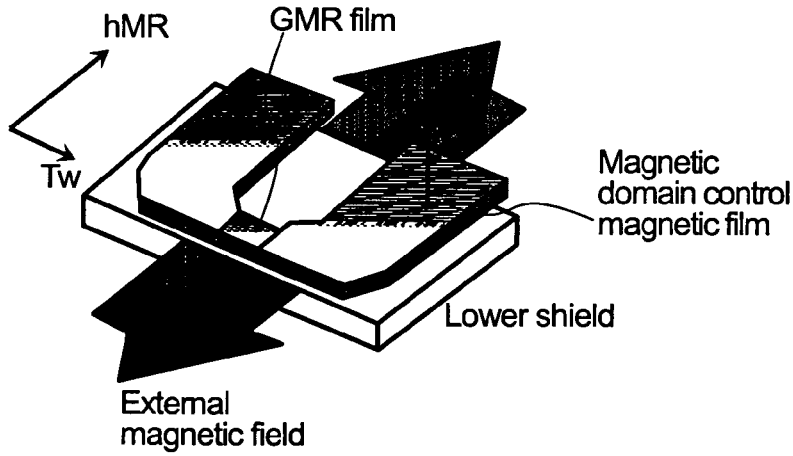
FIG.7


(a)
R(Ω)
H(Oe)
(b)
(c)
(d)
GMR film
Free layer magnetization
Pinned layer magnetization
External magnetic field
Magnetic domain control magnetic field


hMR
GMR film
Tw
Magnetic domain control magnetic film
Lower shield
External magnetic field