

Figure 1

10
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Overcoat	19
Magnetic layer FePt, CoPt, FePtX, and CoPtX	20
De-coupled layer MgO, Cr, Pt, NiAl, and ~~SrTiO₃~~ , Au, Ag,	21
Soft magnetic underlayer FeCo, FeCoX, FeCo/Ru/FeCo, FeCoX/Ru/FeCoX, IrMn/FeCo, and IrMn/FeCoX	30
Buffer layer Pt, Ti, Mo,	31
Underlayer CrRu and CrX	40
Glass substrate	50

FIGURE 2

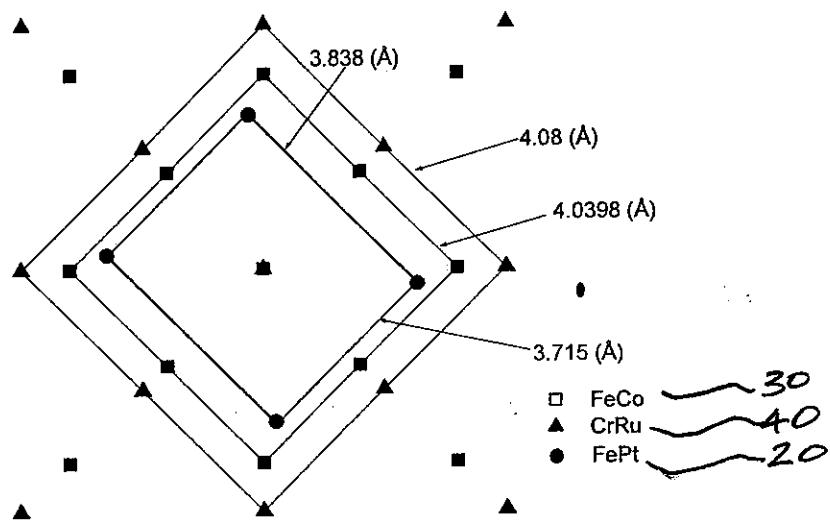


FIGURE 3

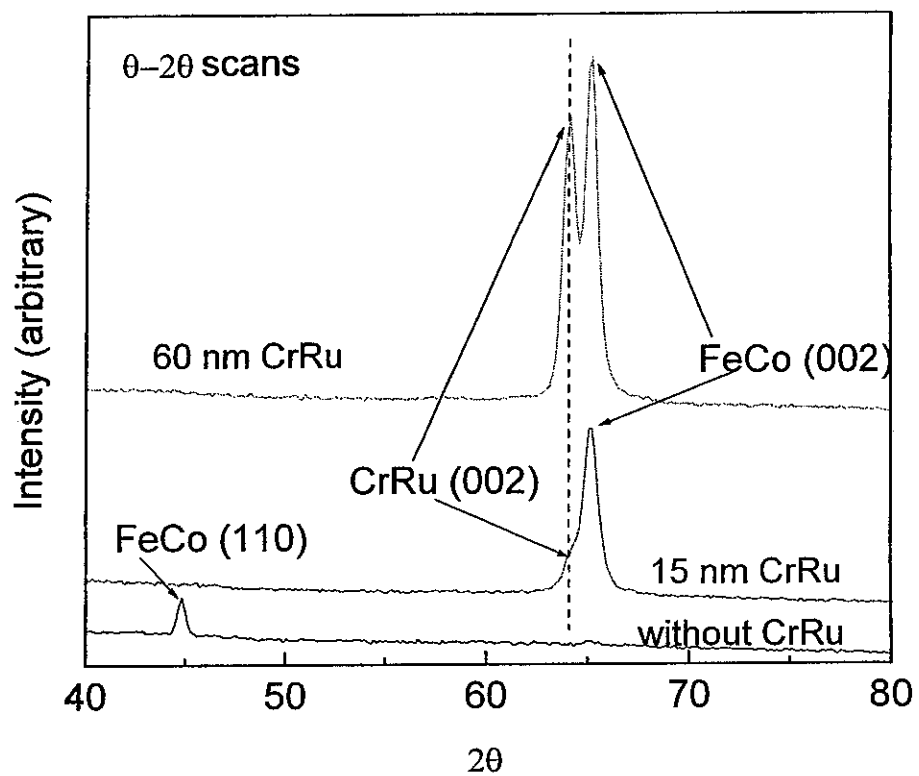


FIGURE 4

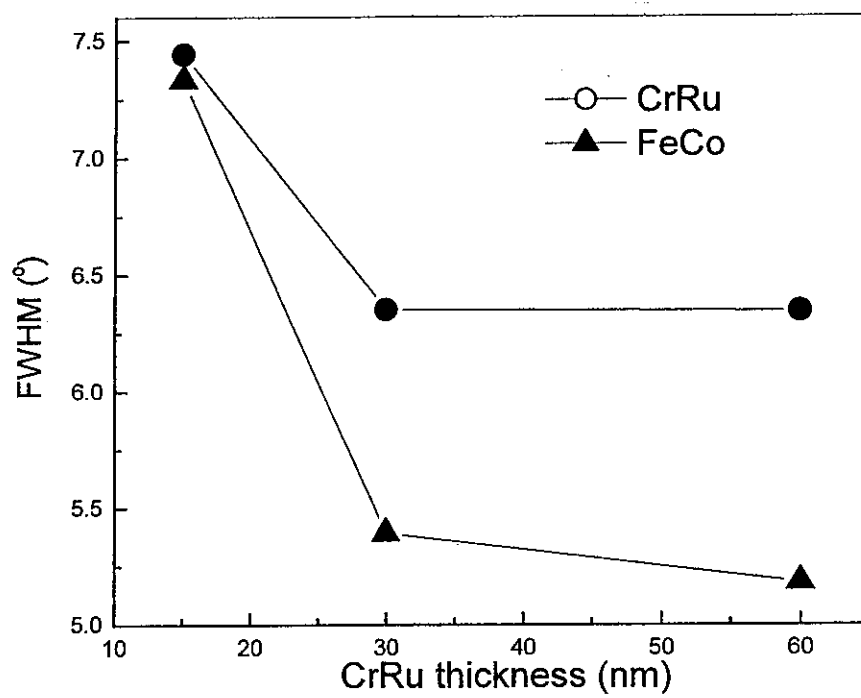


FIGURE 5

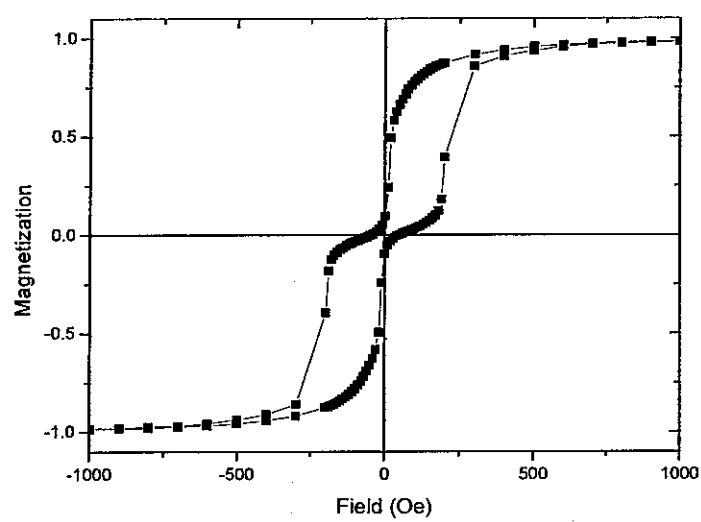


FIGURE 6

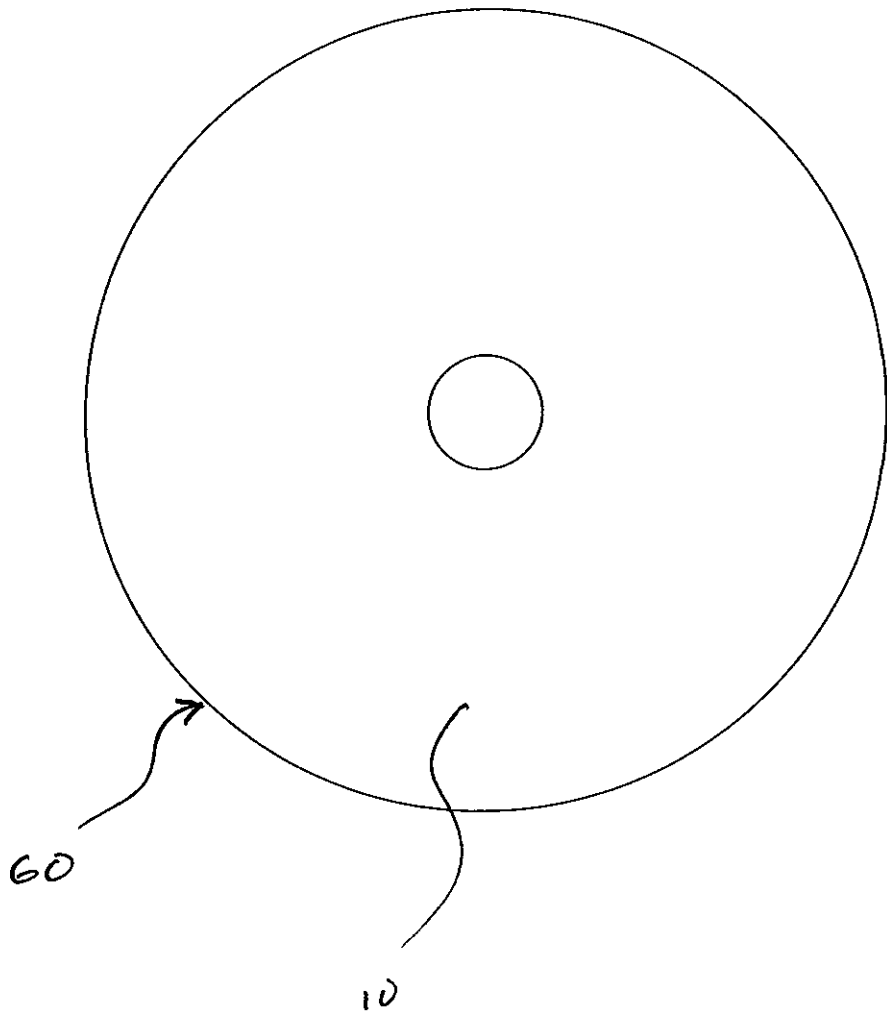
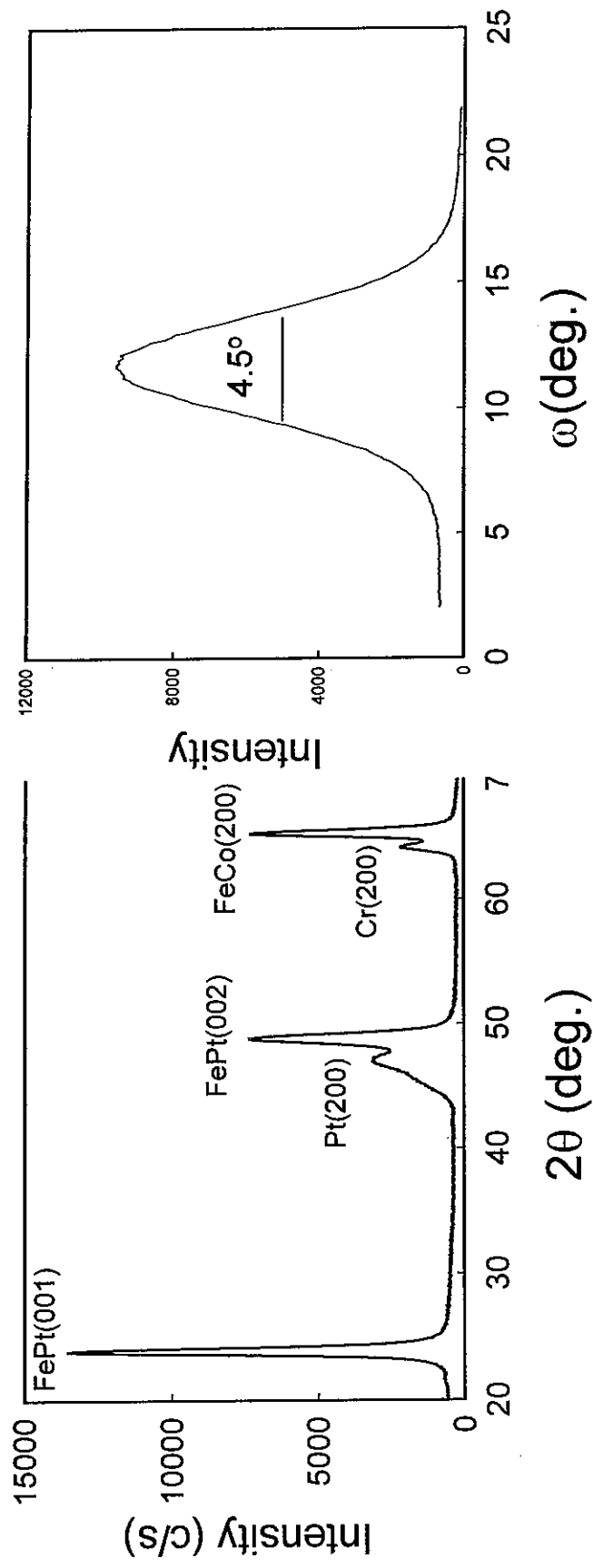


Figure 7

XRD pattern and (001) peak rocking curve of FePt films with soft underlayer



FePt(20nm)/Pt(8nm)/(FeCo/Ru)(100
nm)/CrRu(30nm)