

FIG. 1

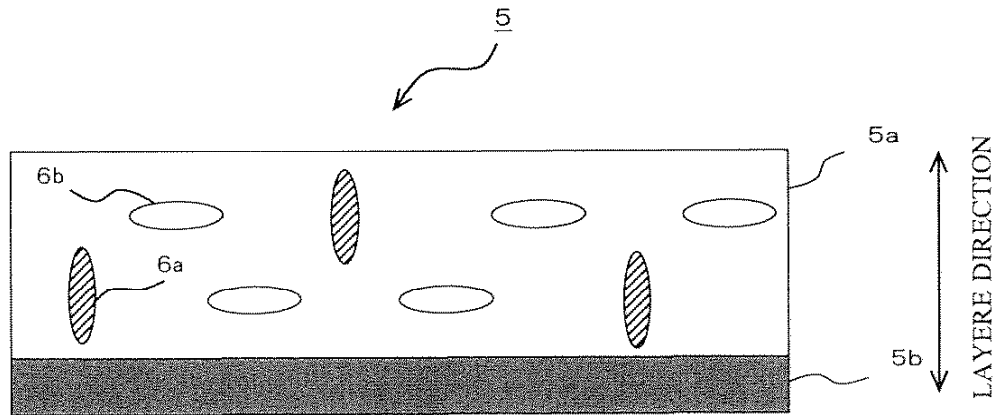


FIG. 2

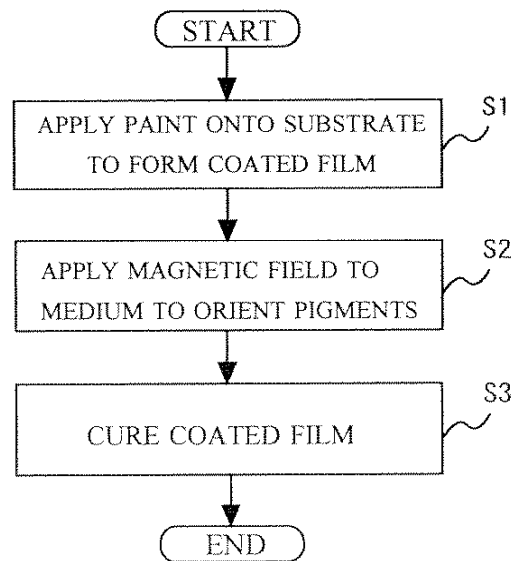


FIG. 3

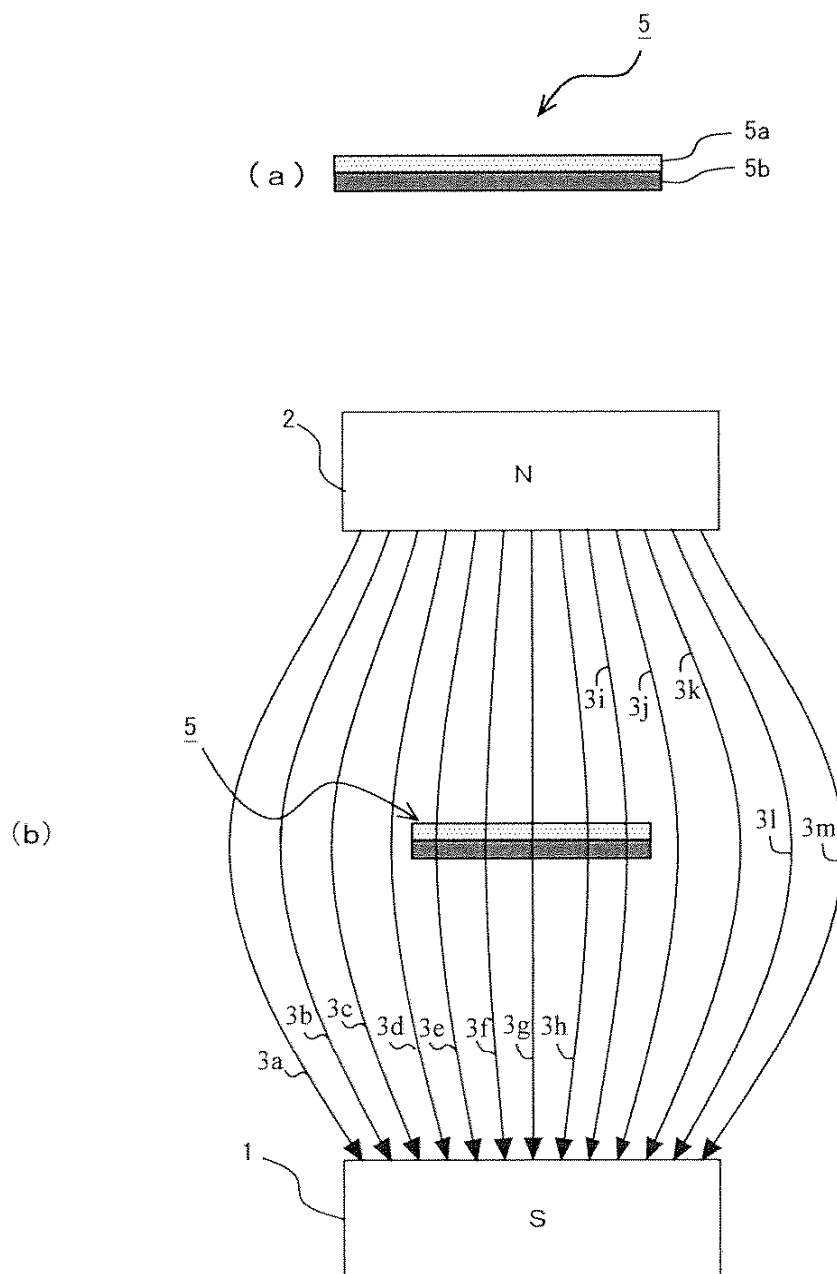


FIG. 4

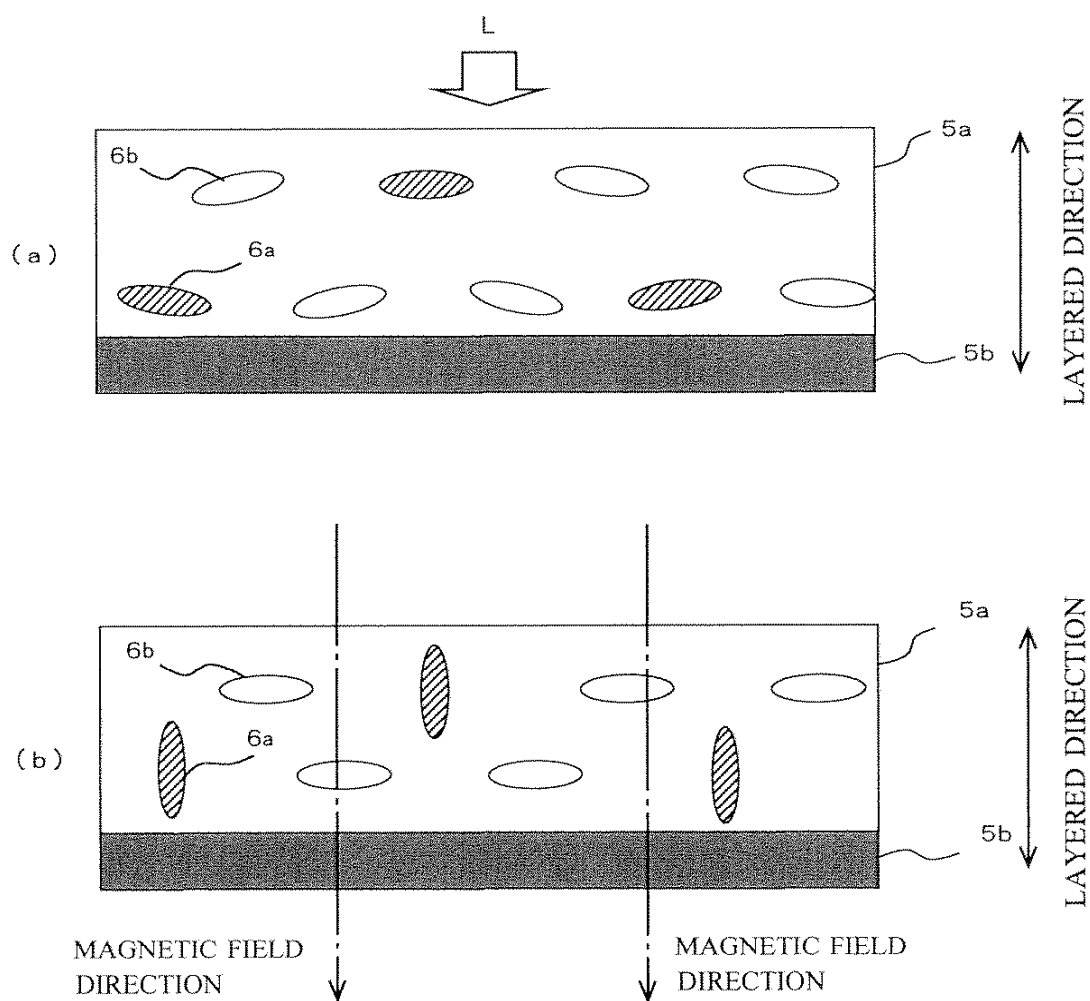


FIG. 5

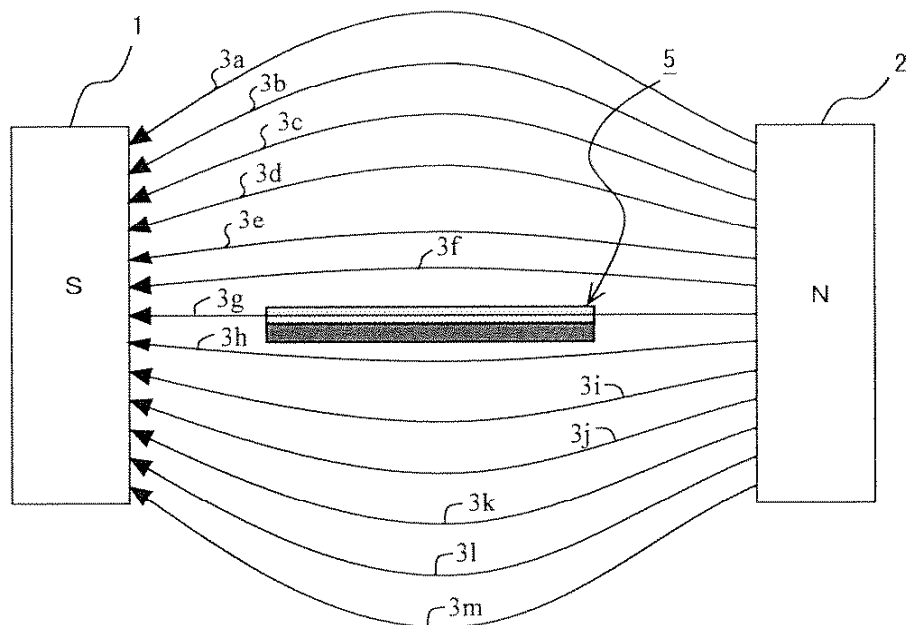


FIG. 6

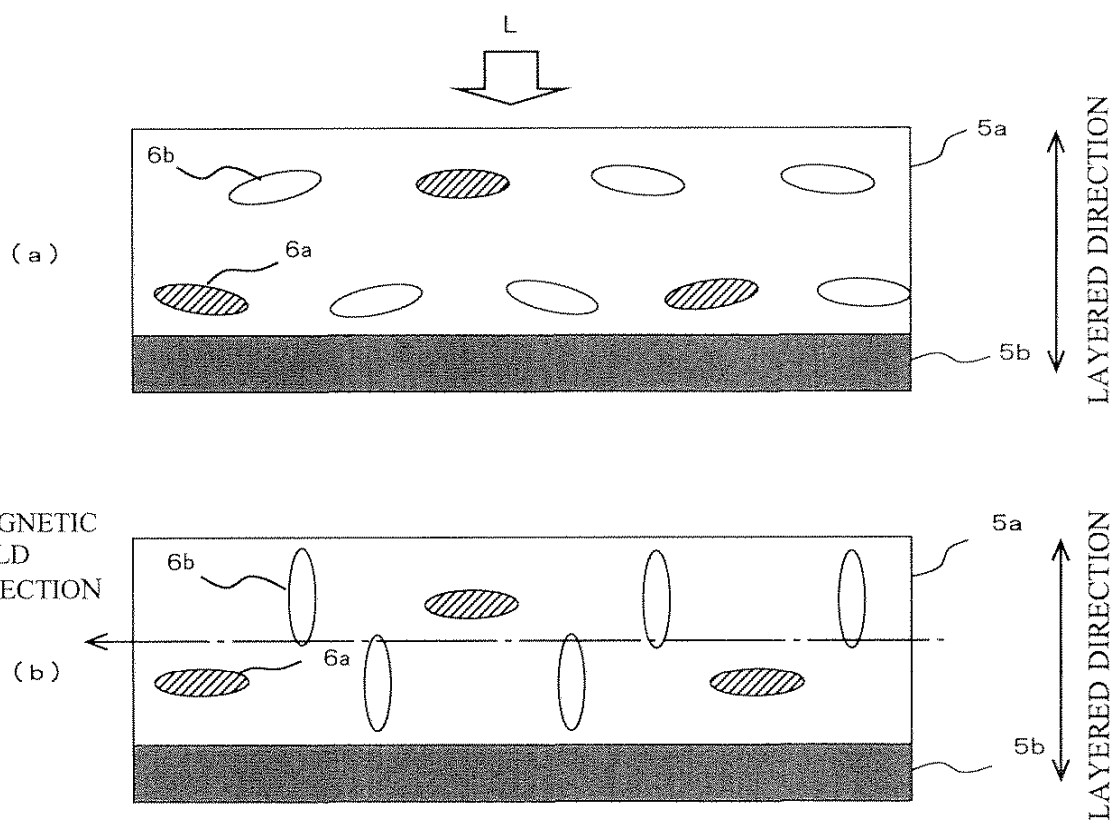
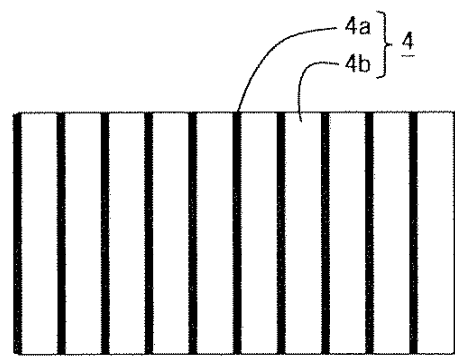
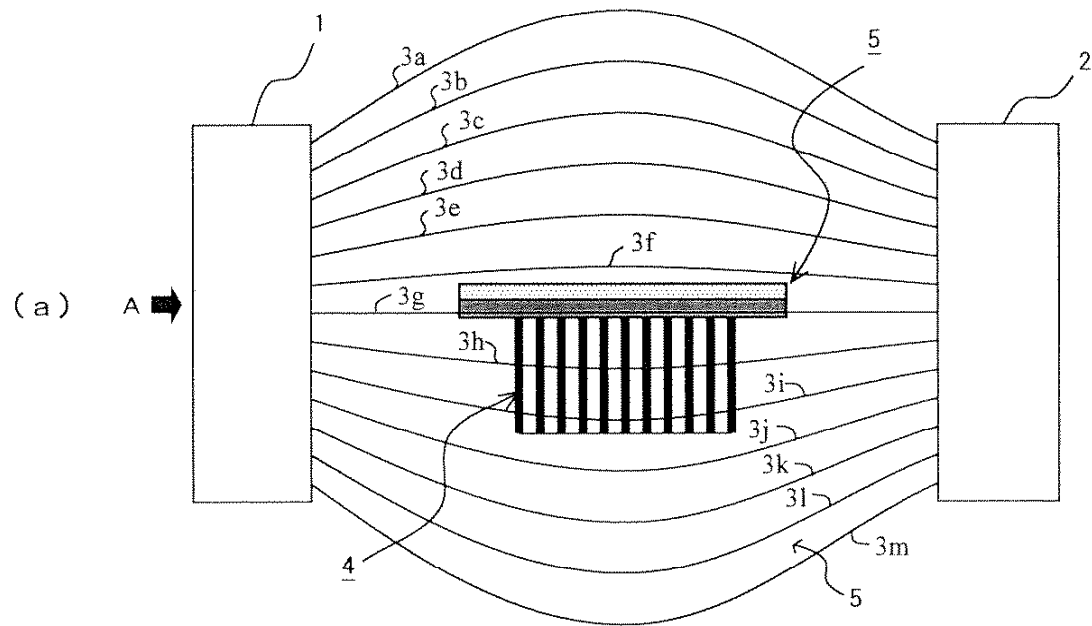
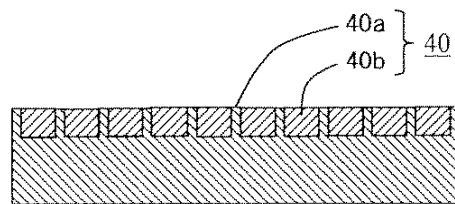


FIG. 7



(b)



(c)

FIG. 8

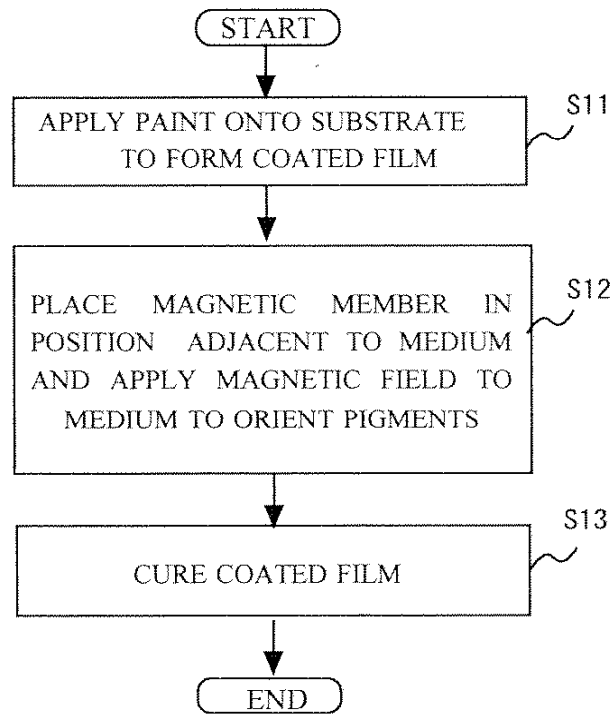


FIG. 9

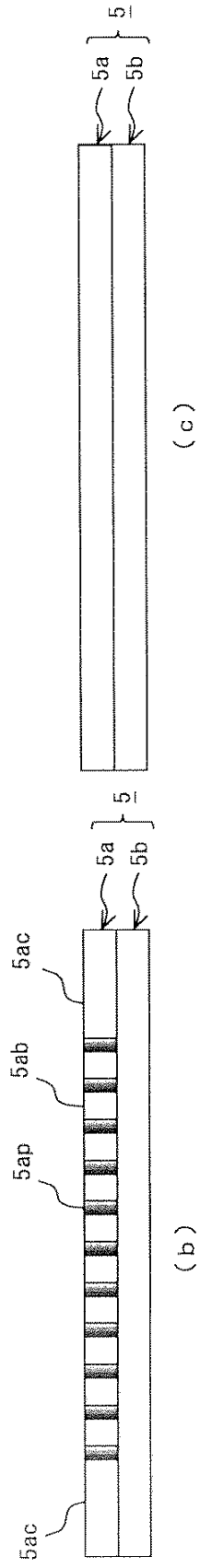
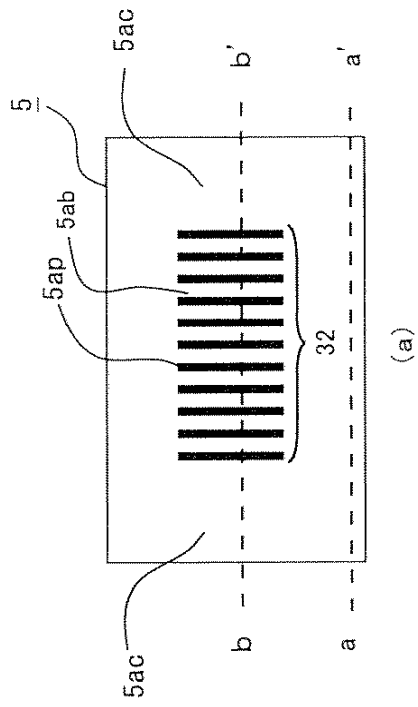


FIG. 10

PIGMENT CONCENTRATION	MAGNETIC FIELD	HUE ANGLE h_{ab}	h_{ab} DIFFERENCE (WITH MAGNETIC FIELD - WITH NO MAGNETIC FIELD)
0.5%	With no magnetic field With magnetic field	92.18 163.31	71.13
1.0%	With no magnetic field With magnetic field	91.29 152.85	61.56
3.0%	With no magnetic field With magnetic field	102.04 144.67	42.63
5.0%	With no magnetic field With magnetic field	101.32 126.88	25.56
7.5%	With no magnetic field With magnetic field	113.72 129.80	16.08
10.0%	With no magnetic field With magnetic field	107.00 117.99	10.99
11.0%	With no magnetic field With magnetic field	108.20 115.46	7.26
12.0%	With no magnetic field With magnetic field	111.63 118.59	6.96
13.0%	With no magnetic field With magnetic field	109.93 118.55	8.62
14.0%	With no magnetic field With magnetic field	111.28 119.15	7.87
15.0%	With no magnetic field With magnetic field	107.66 112.41	4.75
20.0%	With no magnetic field With magnetic field	104.46 108.50	4.04
22.5%	With no magnetic field With magnetic field	104.30 107.01	2.71
25.0%	With no magnetic field With magnetic field	106.82 110.59	3.77

h_{ab} MEASURED DATA (h_{ab} DIFFERENCE GREATER THAN 5)	SENSORY EVALUATION (VISUAL INSPECTION)	TOTAL EVALUATION
○	Inspector did not perceive change in color because concentration was too low	△
○		△
○		○
○		○
○		○
○	Inspector perceived difference in color tone between two colors	○
○		○
○		○
○		○
×		×
×	Inspector did not perceive change in color	×
×		×
×		×

FIG. 11

PIGMENT CONCENTRATION (Iridin522:Xiralic T60-24)	MAGNETIC FIELD	MAXIMUM h^*_{ab} DIFFERENCE (MAXIMUM - MINIMUM)	h_{ab} DIFFERENCE BETWEEN STATE IN PRESENCE OF MAGNETIC FIELD AND STATE IN ABSENCE OF MAGNETIC FIELD (WITH MAGNETIC FIELD - WITH NO MAGNETIC FIELD)
1:0.05	With no magnetic field	5.85	4.13
	With magnetic field	9.98	
	With no magnetic field	4.78	19.4
	With magnetic field	24.18	
1:0.2	With no magnetic field	5.64	27.72
	With magnetic field	33.36	
	With no magnetic field	9.95	26.74
	With magnetic field	36.69	
1:0.5	With no magnetic field	15.75	31.93
	With magnetic field	47.68	
	With no magnetic field	16.15	35.55
	With magnetic field	51.7	
1:0.7	With no magnetic field	27.08	32.29
	With magnetic field	59.37	
	With no magnetic field	29.02	28.51
	With magnetic field	57.53	
1:0.9	With no magnetic field	27.57	29.79
	With magnetic field	57.36	
	With no magnetic field	30.06	31.27
	With magnetic field	61.33	
1:2.3	With no magnetic field	55.96	21.42
	With magnetic field	77.38	
	With no magnetic field	58.02	21.54
	With magnetic field	79.56	
1:4	With no magnetic field	52.85	-3.39
	With magnetic field	49.46	
	With no magnetic field	60.83	-13.15
	With magnetic field	47.68	
1:6	With no magnetic field	55.15	-14.86
	With magnetic field	40.29	
1:7	With no magnetic field	59.53	-19.75
	With magnetic field	39.78	
1:8	With no magnetic field		
	With magnetic field		
	With no magnetic field		
	With magnetic field		
h _{ab} DATA EVALUATION (○ REPRESENTS THAT VALUE IN PRESENCE OF MAGNETIC FIELD IS GREATER)			
Completely brown in absence of magnetic field, and almost brown in presence of magnetic field			
○			×
○			×
Completely brown in absence of magnetic field, and relatively brownish green in presence of magnetic field			
○			△
○			△
Completely brown in absence of magnetic field, and relatively brownish green in presence of magnetic field			
○			○
○			○
Completely brown in absence of magnetic field, and brownish green and difference in color tone between two colors in presence of magnetic field			
○			○
○			○
○			○
Completely brown in absence of magnetic field, and relatively brownish green in presence of magnetic field			
○			△
×			×
Completely brown in absence of magnetic field, and almost green in presence of magnetic field			
×			×
×			×
×			×
×			×
TOTAL EVALUATION			