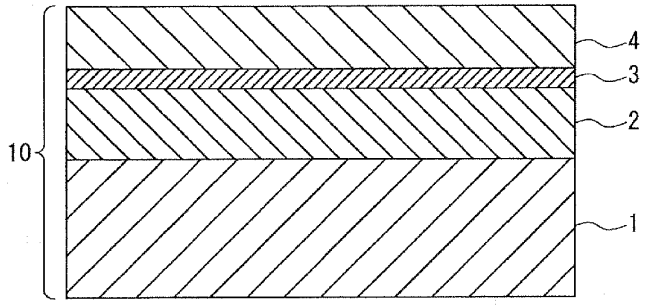
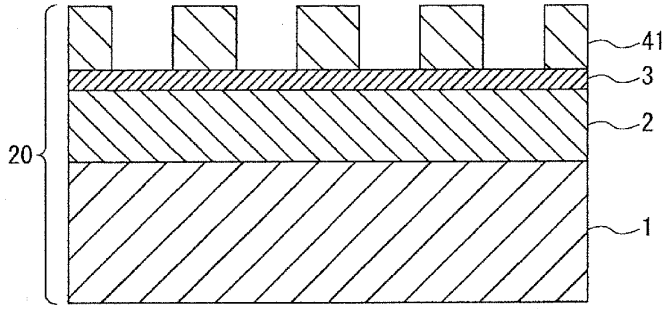
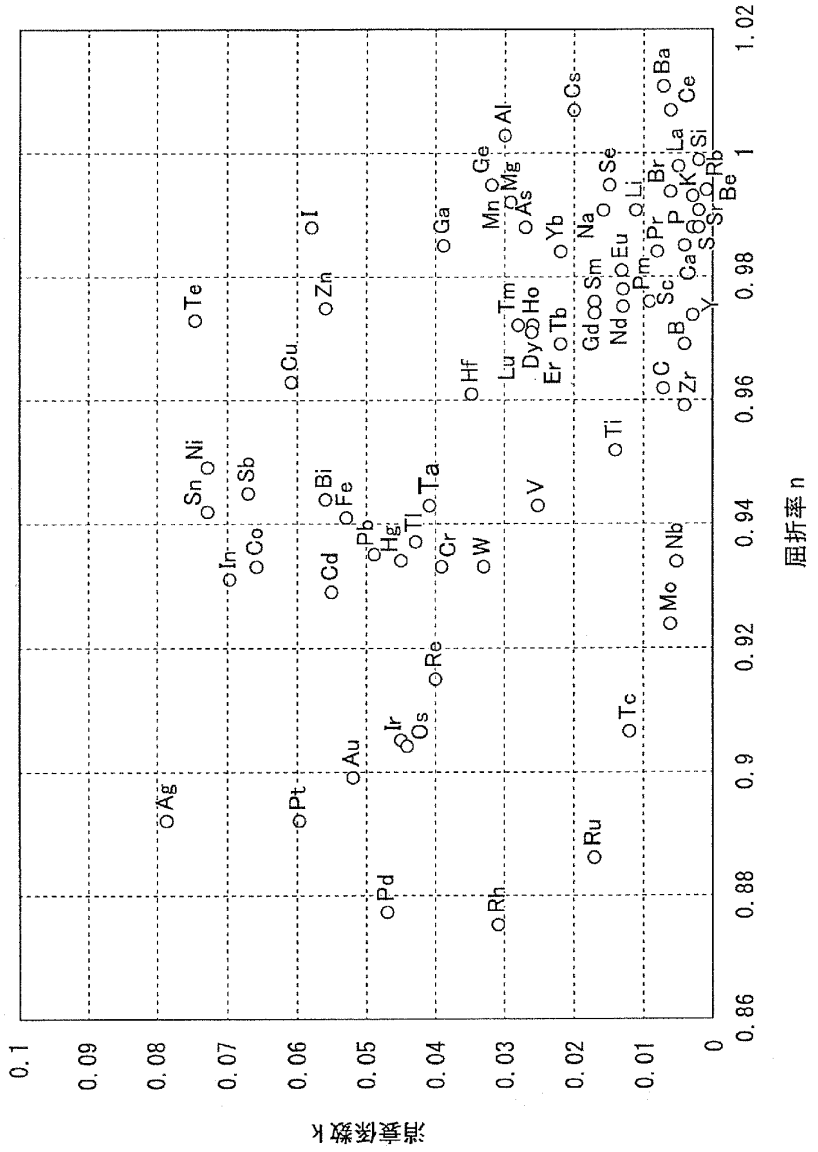
[図1]



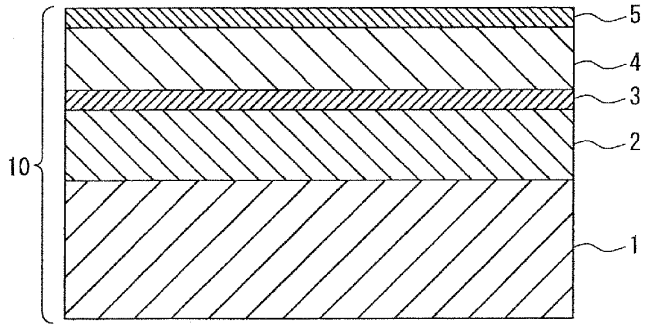
[図2]



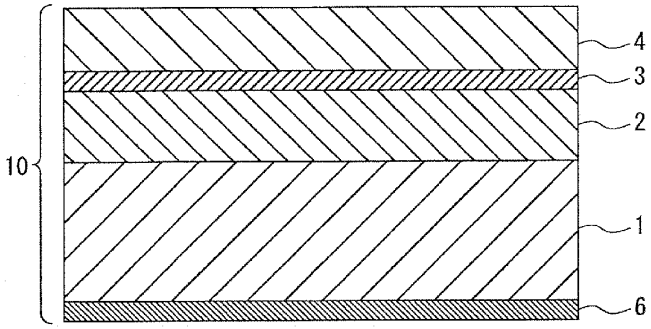
[図3]


消衰係数k
屈折率n
0.1
0.09
0.08
0.07
0.06
0.05
0.04
0.03
0.02
0.01
0
0.86
0.88
0.9
0.92
0.94
0.96
0.98
1
1.02
Ag
Sn
Ni
Te
In
Sb
Co
Cu
I
Zn
Cd
Bi
Fe
Pb
Hg
Tl
Ta
Cr
Ga
W
Hf
Mn
Ge
Mg
Al
As
V
Yb
Lu
Tm
Dy
Ho
Er
Tb
Cs
Gd
Sm
Na
Se
Nd
Eu
Li
Pm
Pr
Br
Sc
P
La
Ba
Ce
B
K
Si
Rb
Ca
Sr
Be
Y
C
Zr
Ti
Au
Ir
Os
Re
Pt
Pd
Rh
Ru
Tc
Mo
Nb

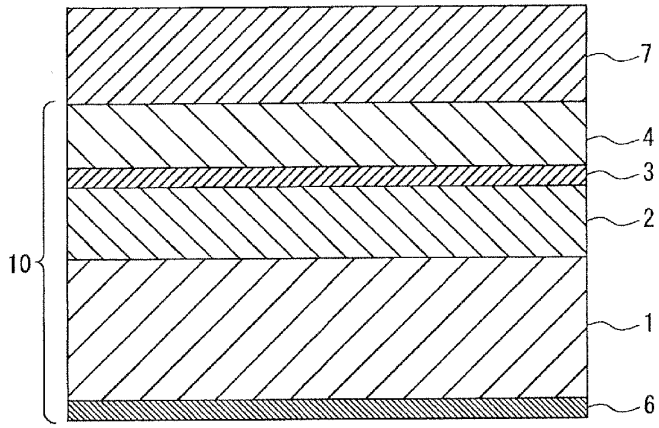
[図4]



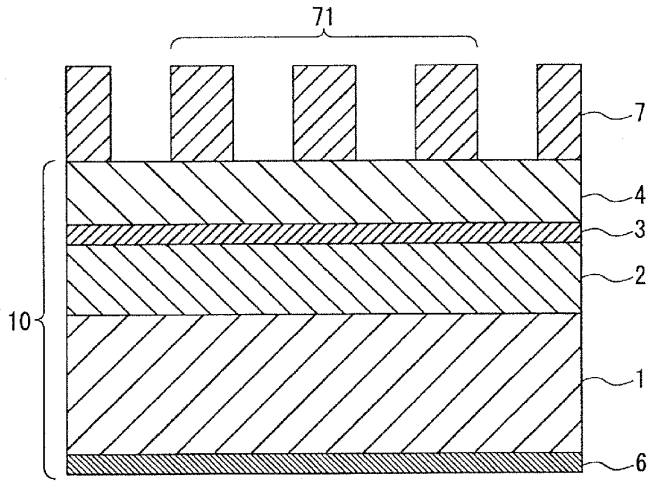
[図5]



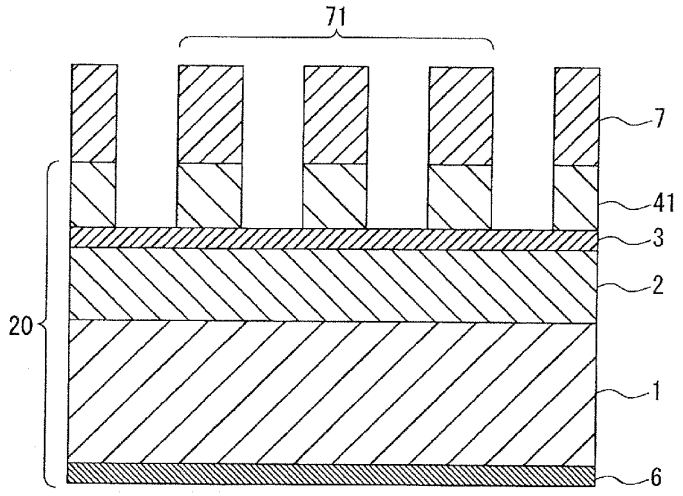
[図6]



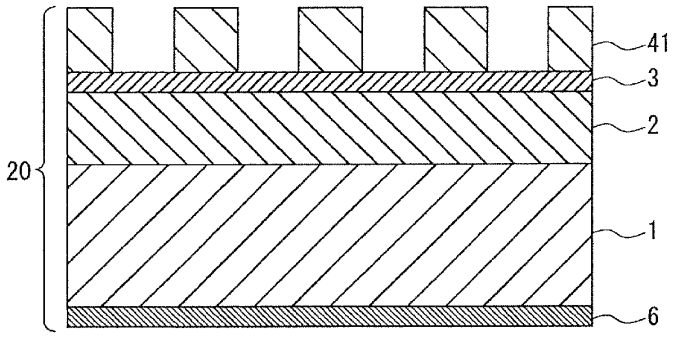
[図7]



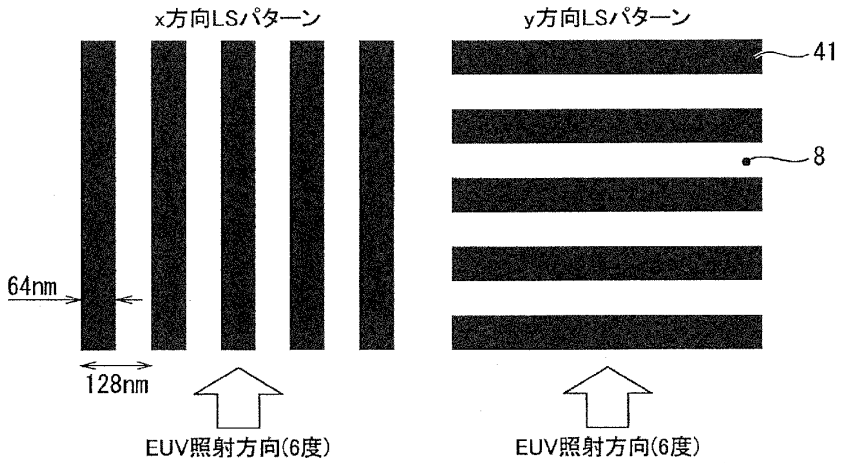
[図8]


71
7
41
3
2
20
1
6

[図9]


41
3
2
20
1
6

[図10]


x方向LSパターン
y方向LSパターン
41
8
64nm
128nm
EUV照射方向(6度)
EUV照射方向(6度)