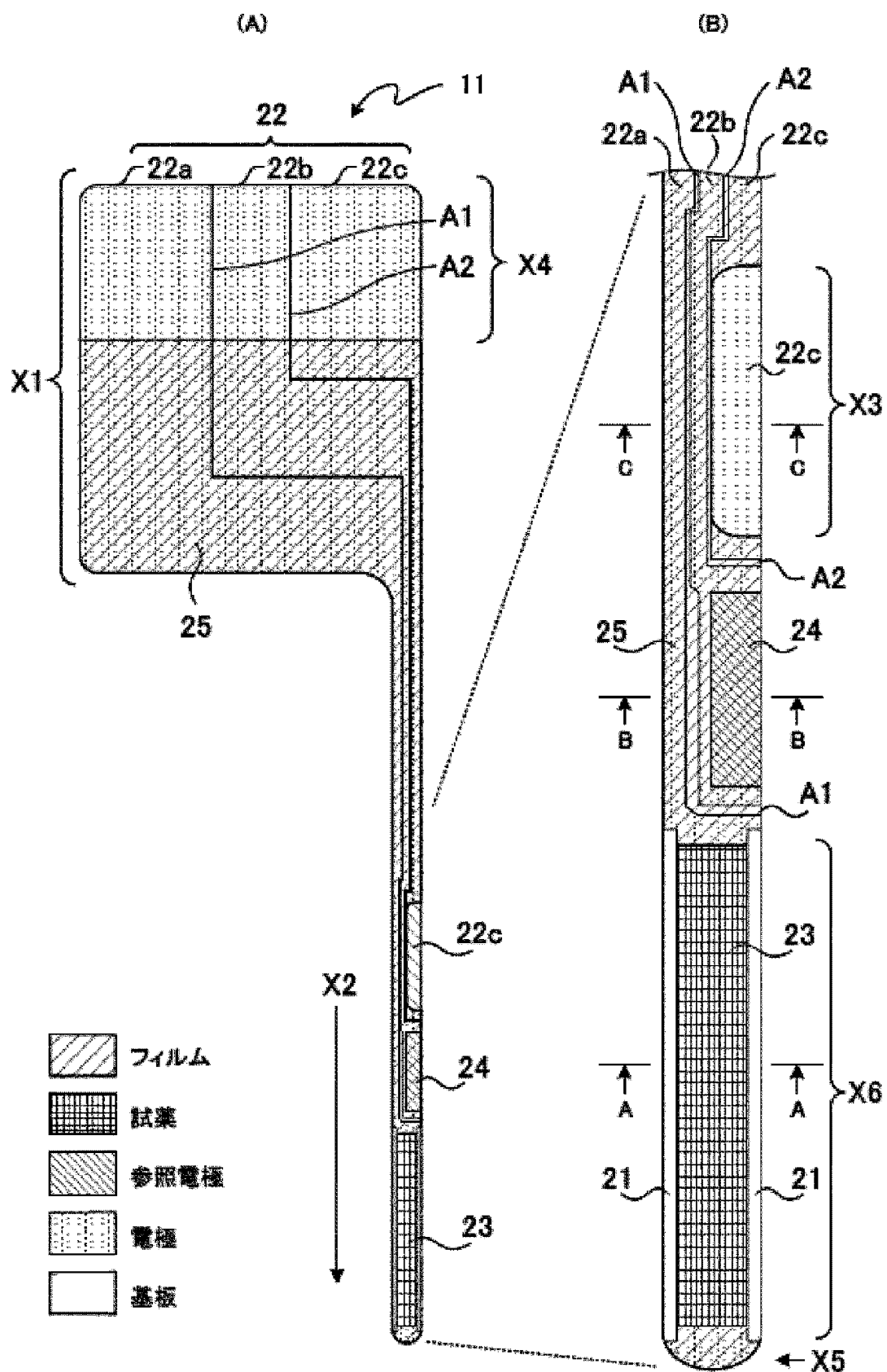
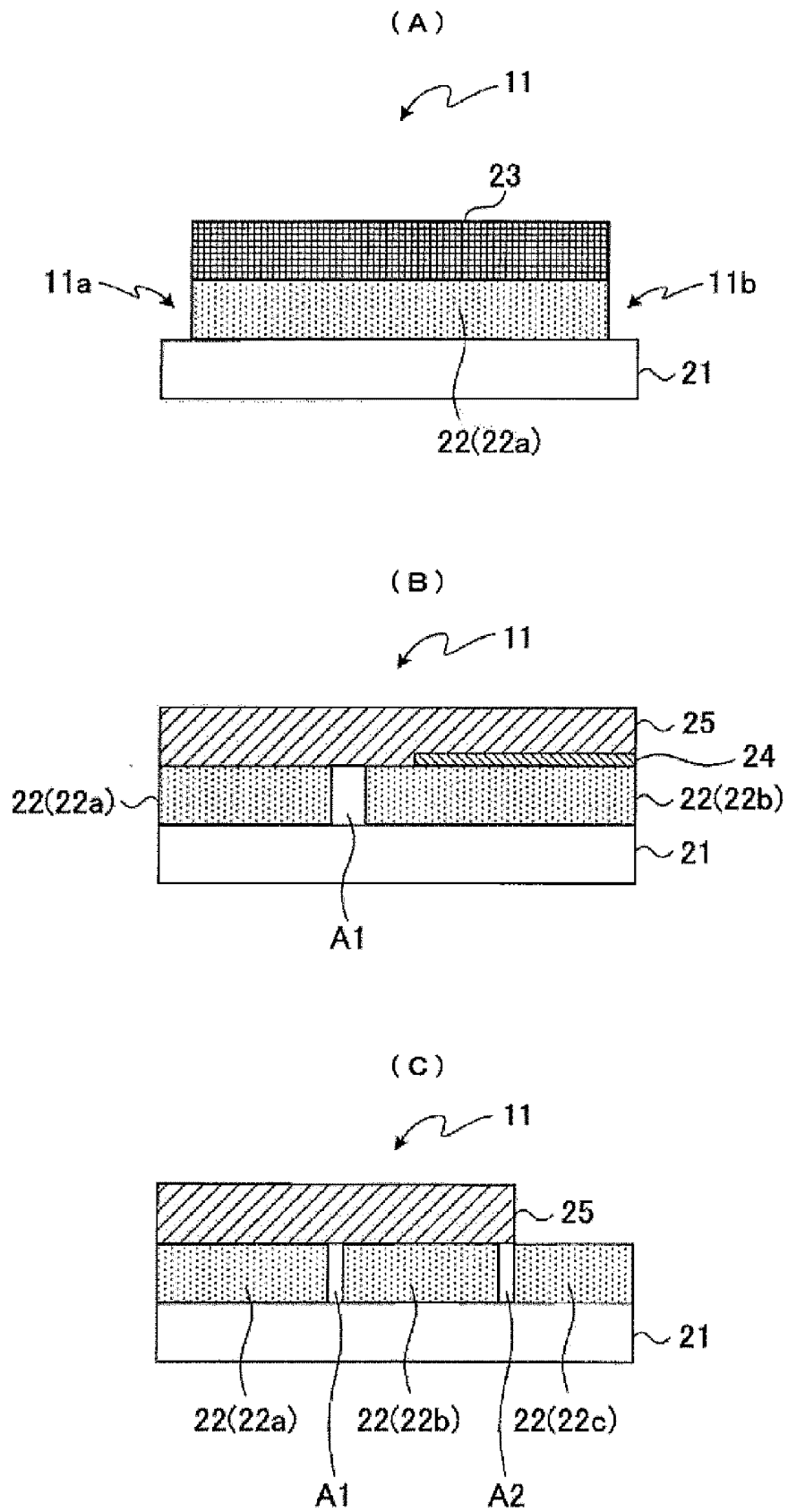


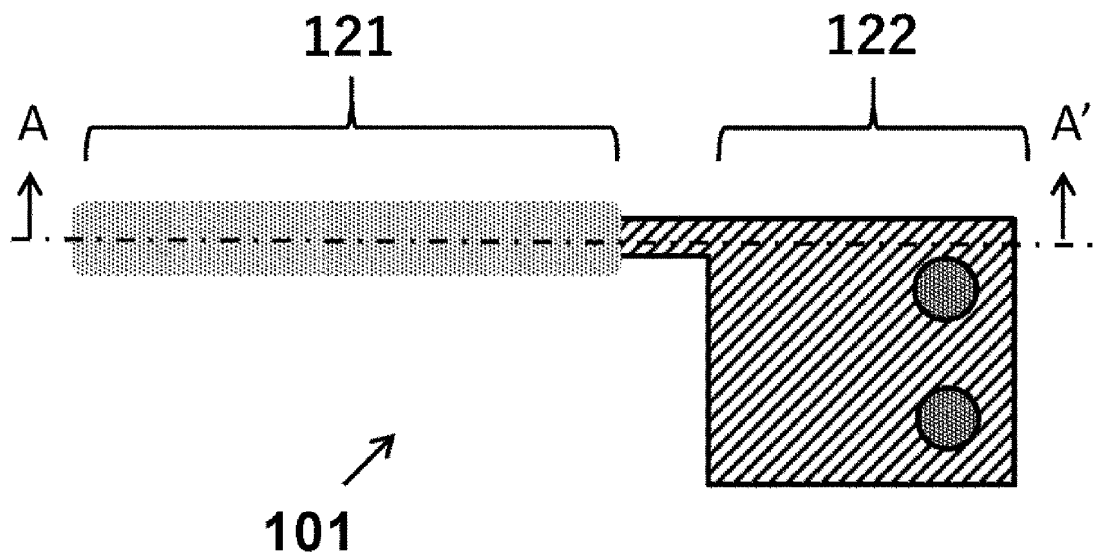
[図1]



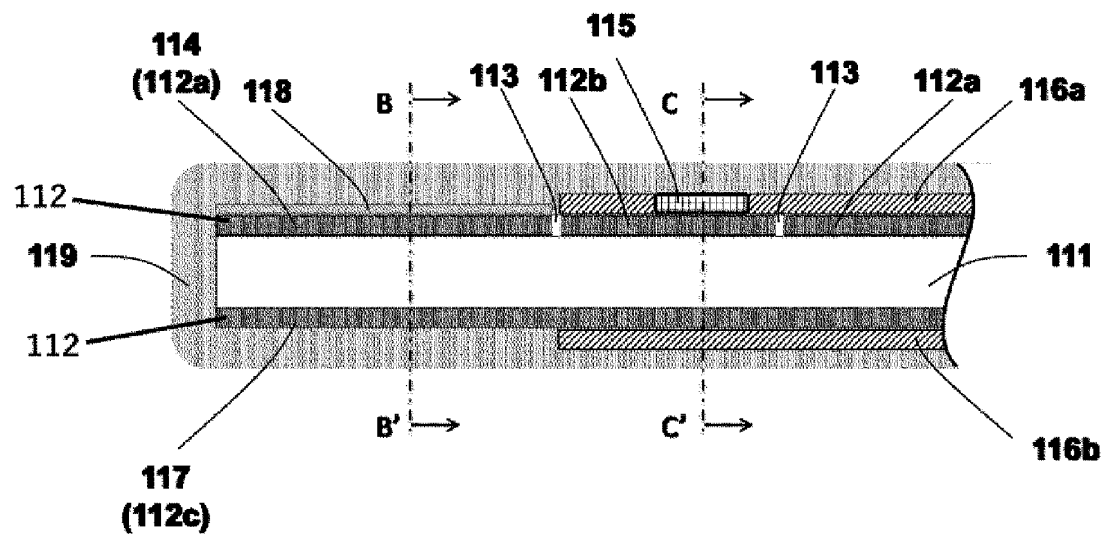
[図2]



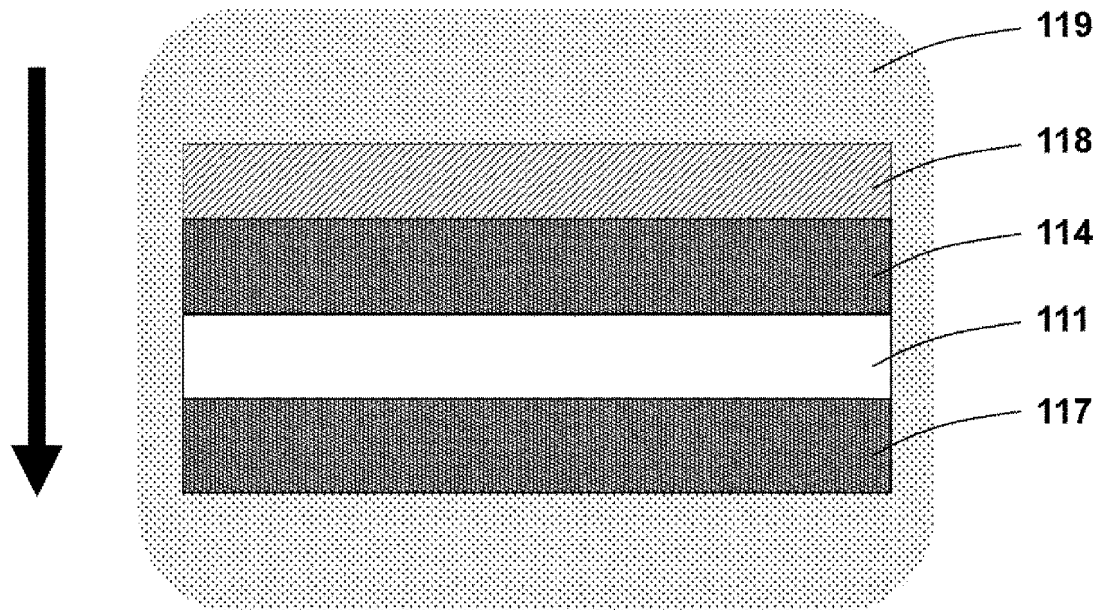
[図3]



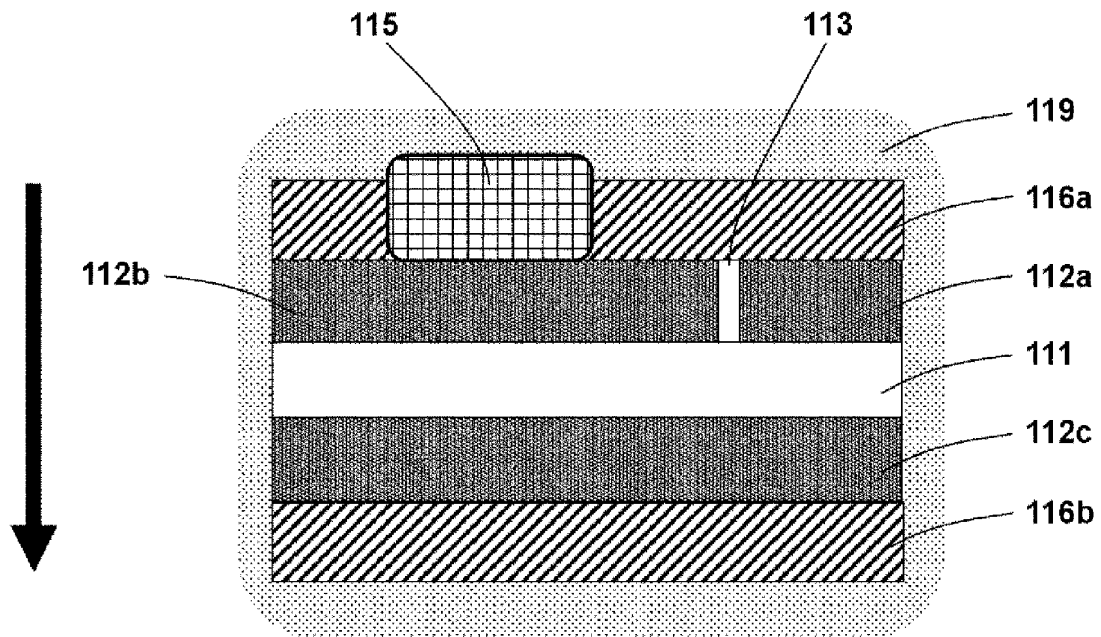
[図4]



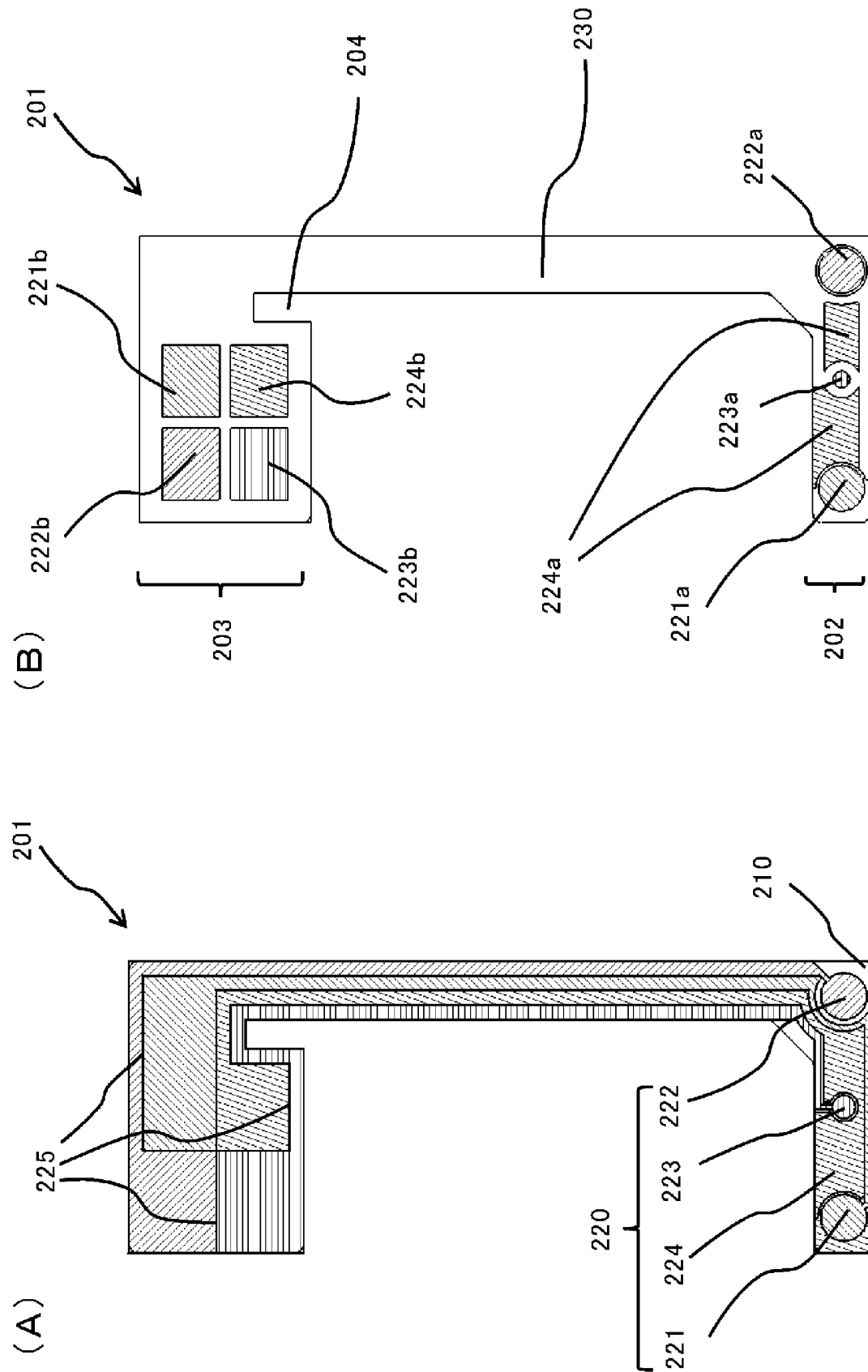
[図5]



[図6]

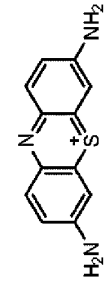


[図7]

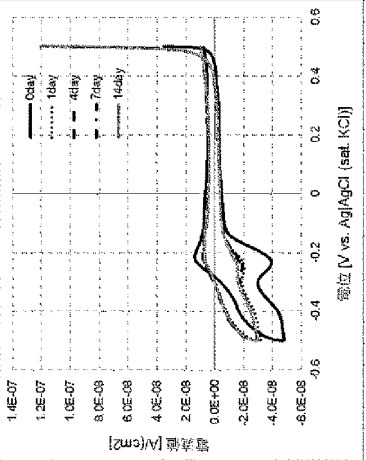
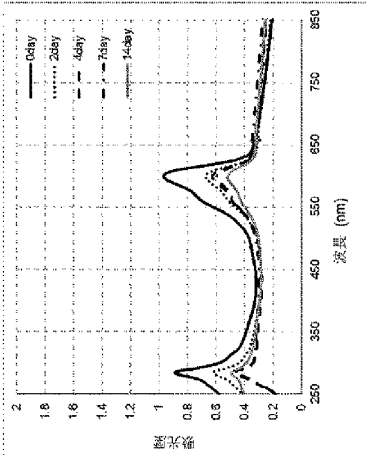


[図8]

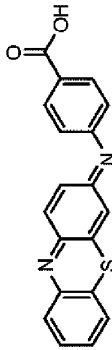
参考比較例 1-2



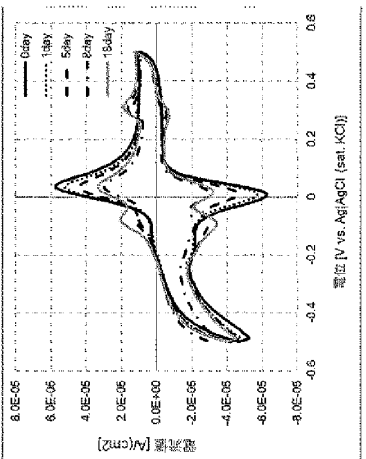
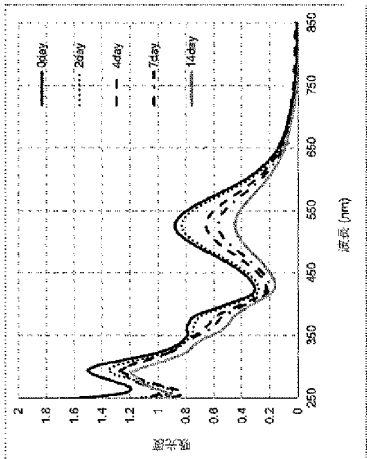
チオニン



参考比較例 1-1



3-(4'-カルボキシフェニル)イミノ-3H-フエノチアジン  
エノチアジン

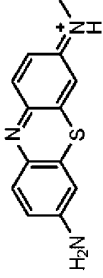


光学試験の  
吸収スペクトル  
(40°C, PB  
pH 7.4)

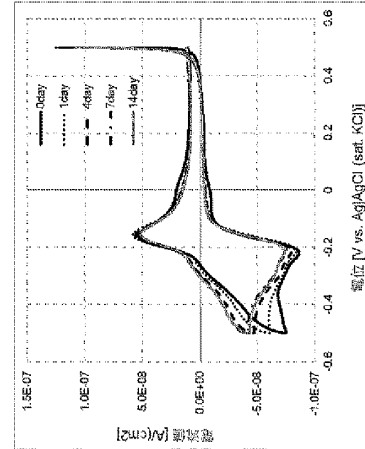
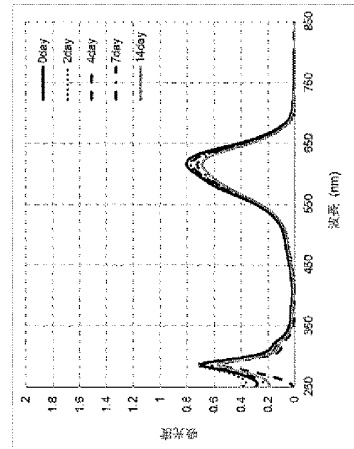
酸化還元  
反応試験の  
サイクリック  
ボルタモグラム  
(40°C  
pH 7.4)

[図9]

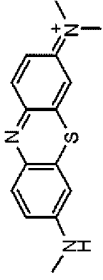
参考実施例 1-3



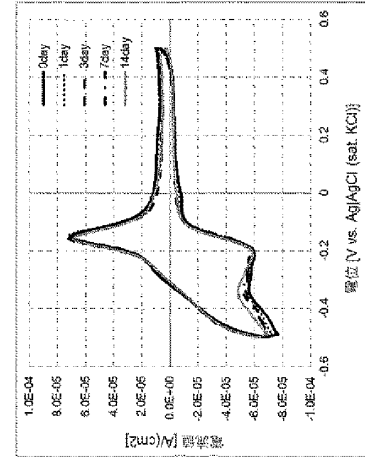
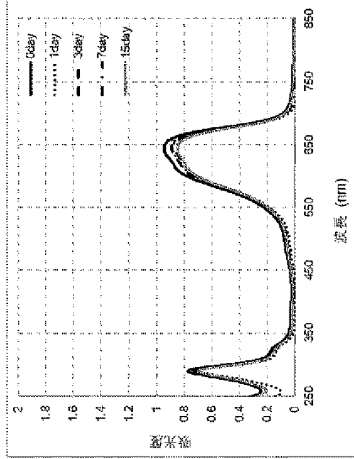
アズールC



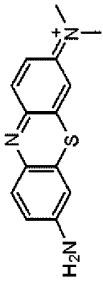
参考実施例 1-2



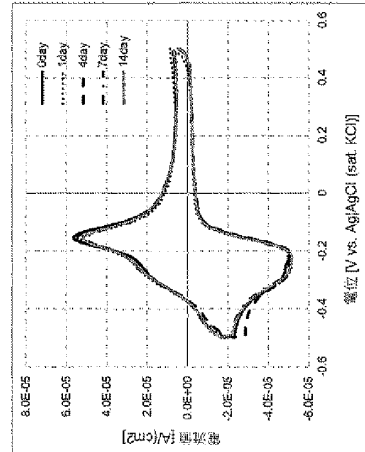
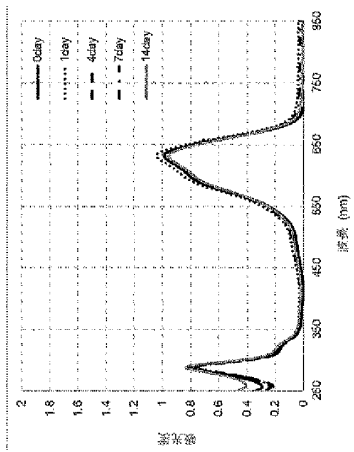
アズールB



参考実施例 1-1



アズールA

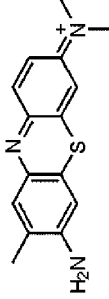


光学試験の  
吸光スペクトル  
(40°C, PB  
pH 7.4)

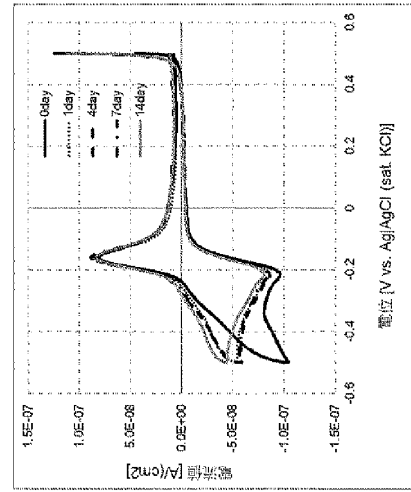
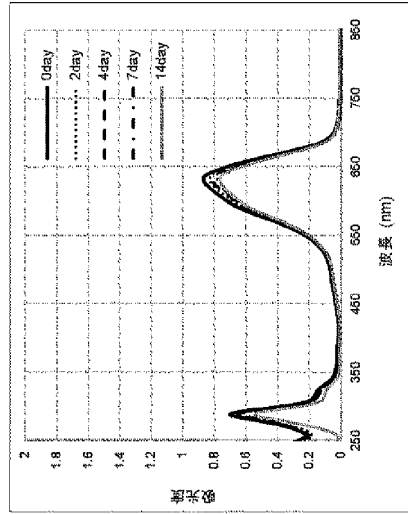
酸化還元  
反応試験の  
サイクリック  
ボルタモグラム  
(40°C  
pH 7.4)

[図10]

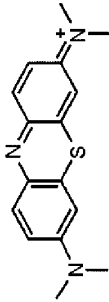
参考実施例 1-5



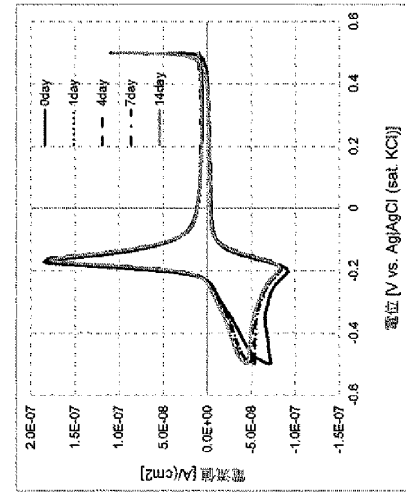
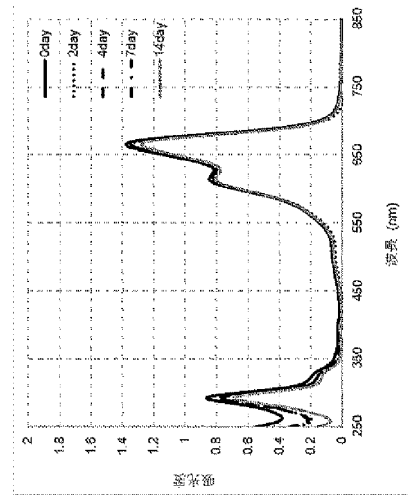
トリイジンブルー



参考実施例 1-4



メチレンブルー

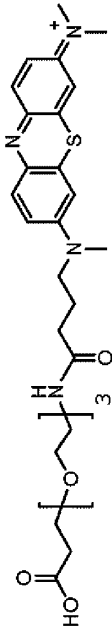


光学試験の  
吸光スペクトル  
(40°C, PB  
pH 7.4)

酸化還元  
反応試験の  
サイクリック  
ボルタモグラム  
(40°C  
pH 7.4)

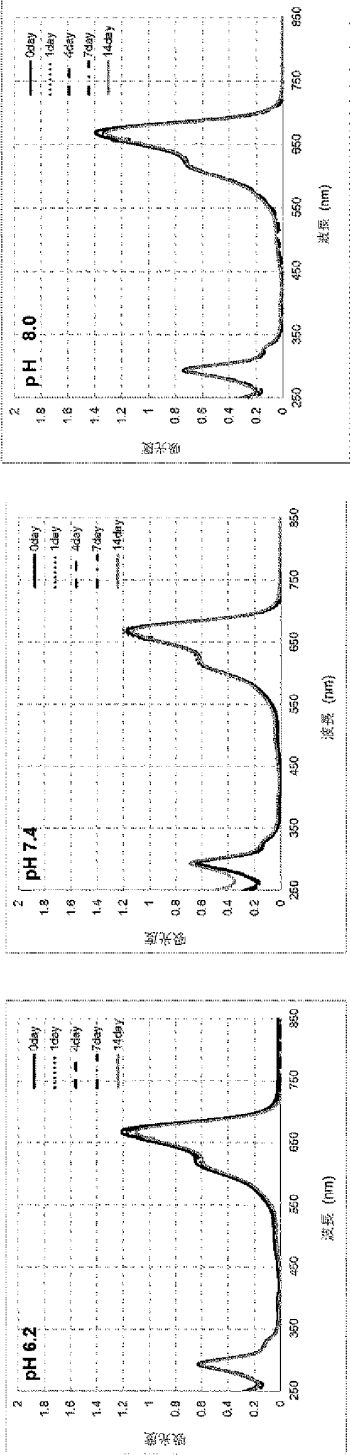
[図11]

実施例2-1

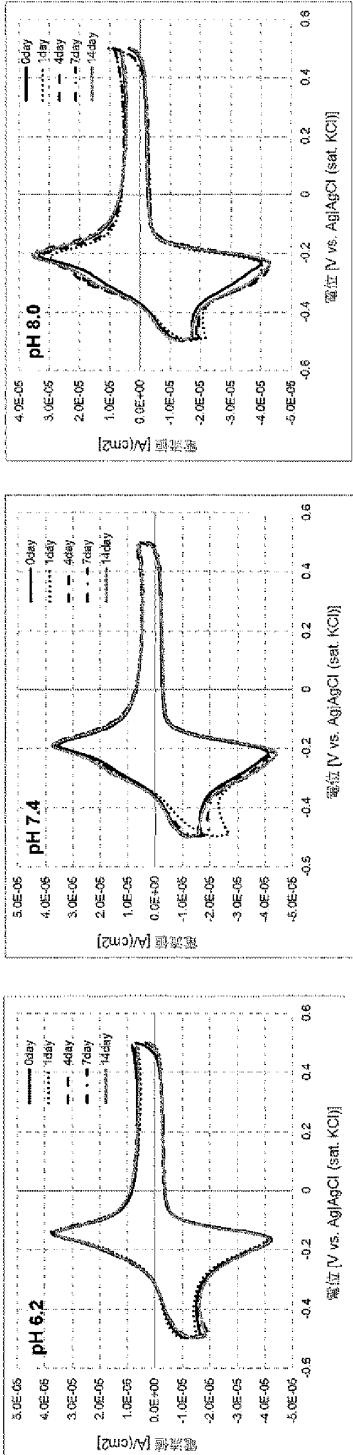


PNT-66

光学試験の  
吸光スペクトル  
(40°C)



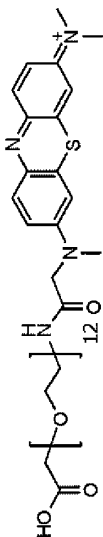
酸化還元  
反応試験の  
サイクリック  
ボルタモグラム  
(40°C)





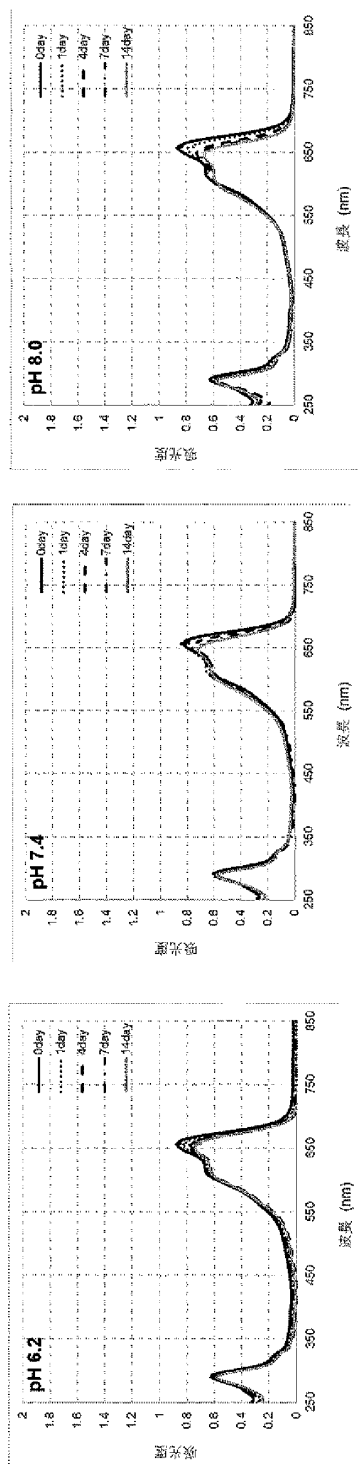
[図13]

実施例2-3

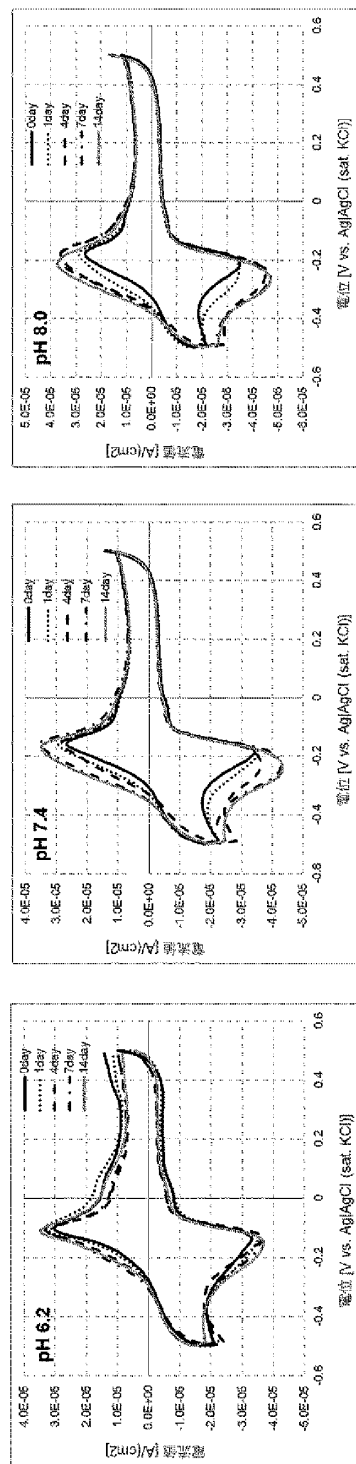


PNT-63

光学試験の  
吸光スペクトル  
(40°C)



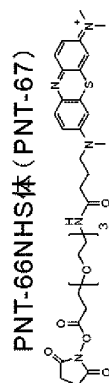
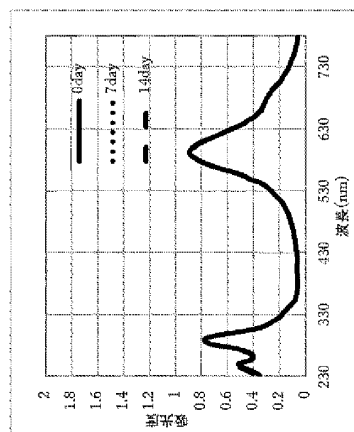
酸化還元  
反応試験の  
サイクリック  
ボルタモグラム  
(40°C)



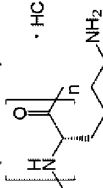
[図14]

## ポリマー結合型PNTの光学試験 (PBS中)

## 実施例3-1 (ポリ(L-リジン)・PNT-66)

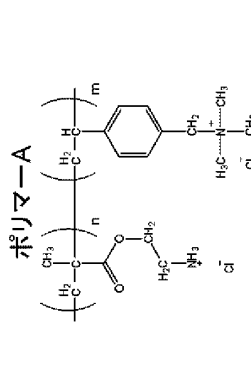
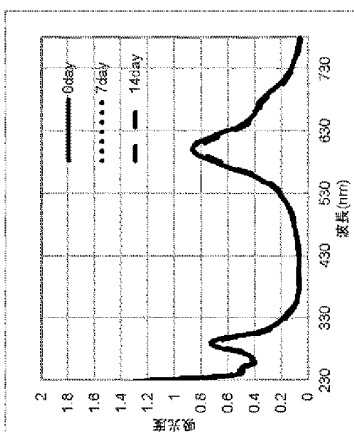


## ポリ(L-リジン)塩酸塩



## 実施例3-2 (ポリマー-A・PNT-69)

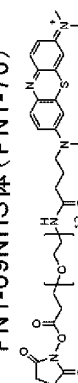
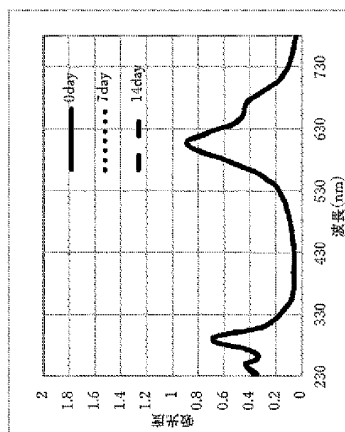
## PNT-69NHS体 (PNT-70)



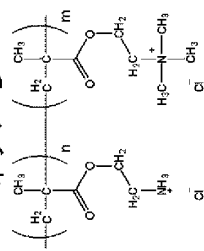
モル比 48.5 : 51.5

## 実施例3-3 (ポリマー-B・PNT-69)

## PNT-69NHS体 (PNT-70)



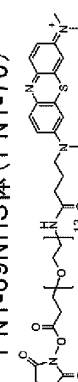
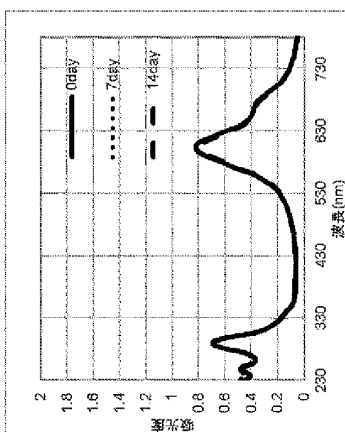
## ポリマー-B



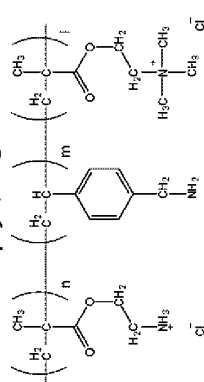
モル比 13.3 : 86.7

## 実施例3-4 (ポリマー-C・PNT-69)

## PNT-69NHS体 (PNT-70)



## ポリマー-C

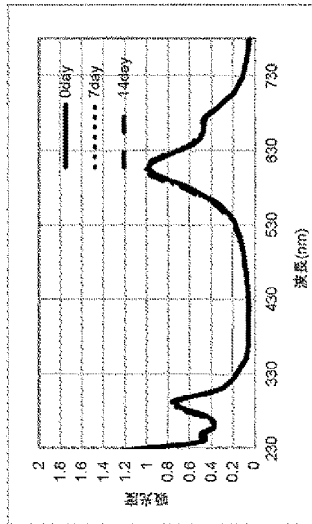


モル比 21.2 : 8.1 : 70.7

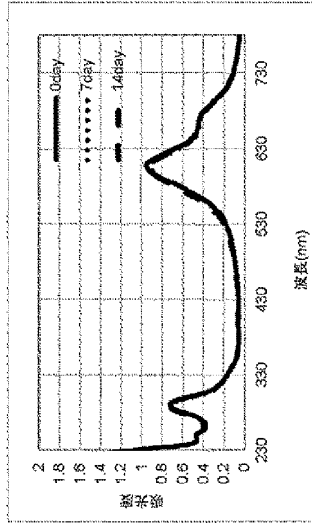
ポリマー結合型PNTの光学試験  
(リン酸ナトリウム緩衝液中)

実施例3-2  
(ポリマーA・PNT-69)

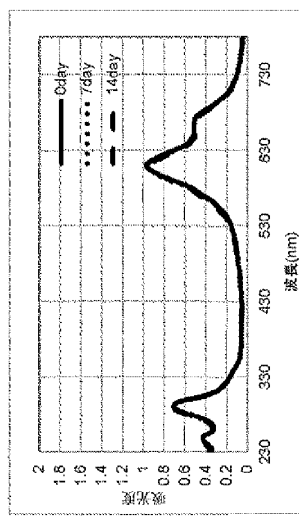
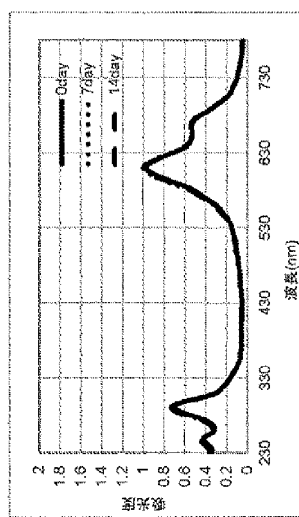
pH6



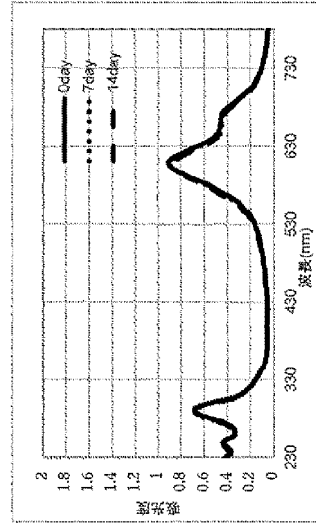
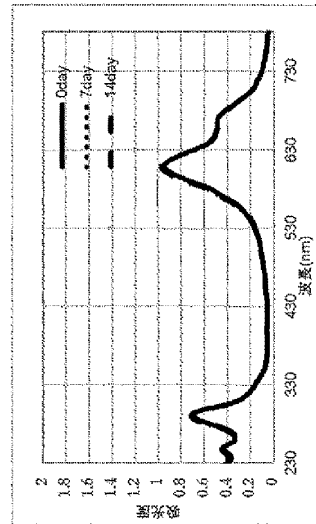
pH8



実施例3-3  
(ポリマーB・PNT-69)



実施例3-4  
(ポリマーC・PNT-69)

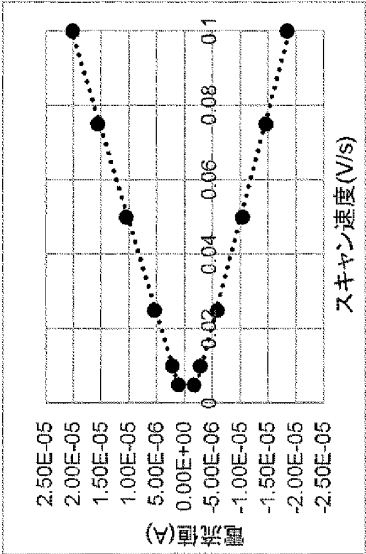
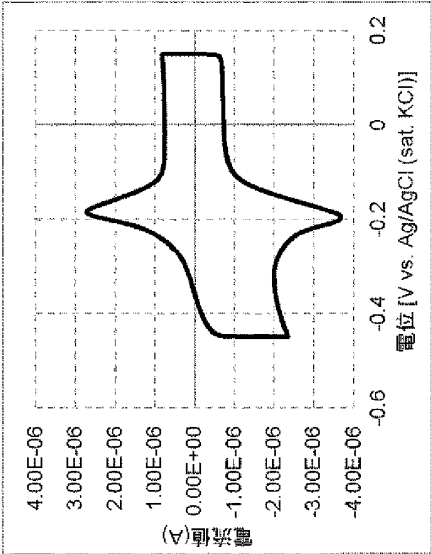


[図15]

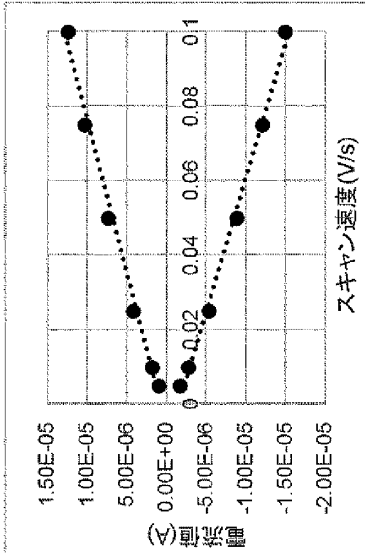
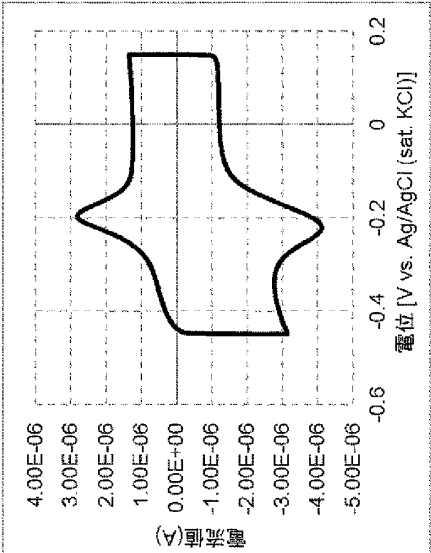
[図16]

ポリマー結合型PNTの電気化学応答性試験

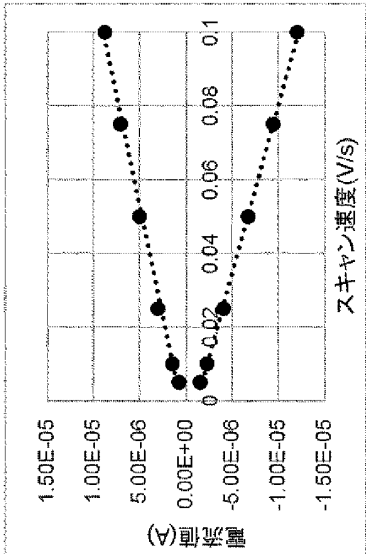
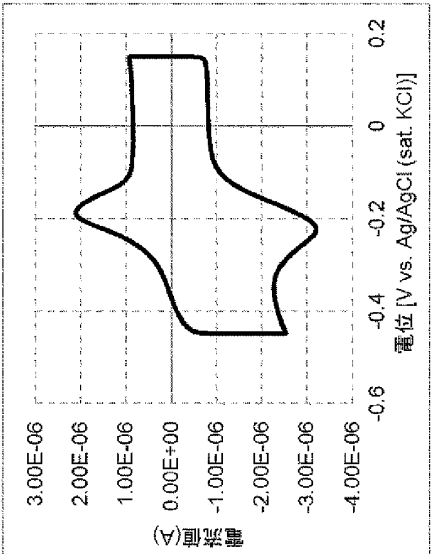
実施例3-2 (ポリマー-A・PNT-69)



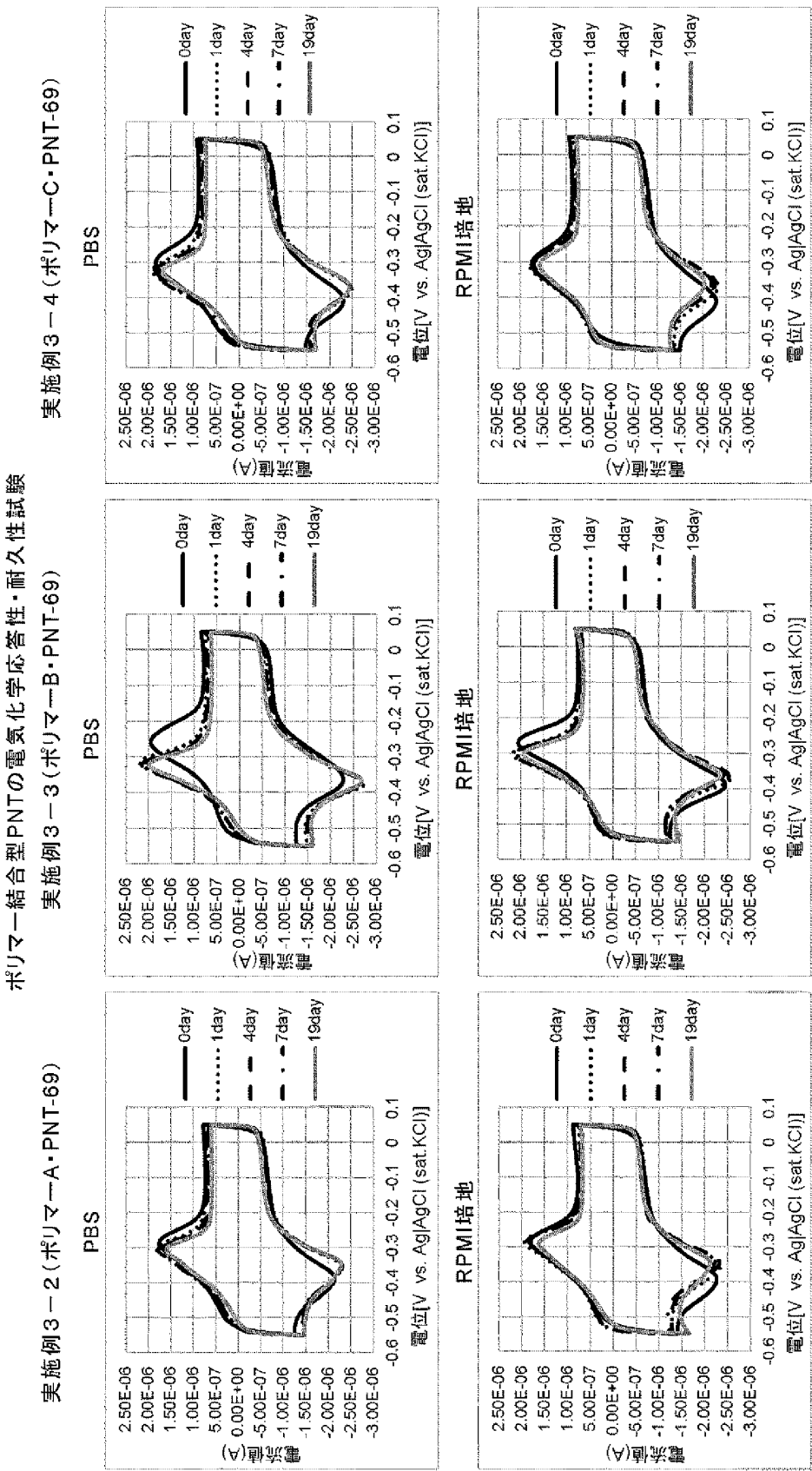
実施例3-3 (ポリマー-B・PNT-69)



実施例3-4 (ポリマー-C・PNT-69)

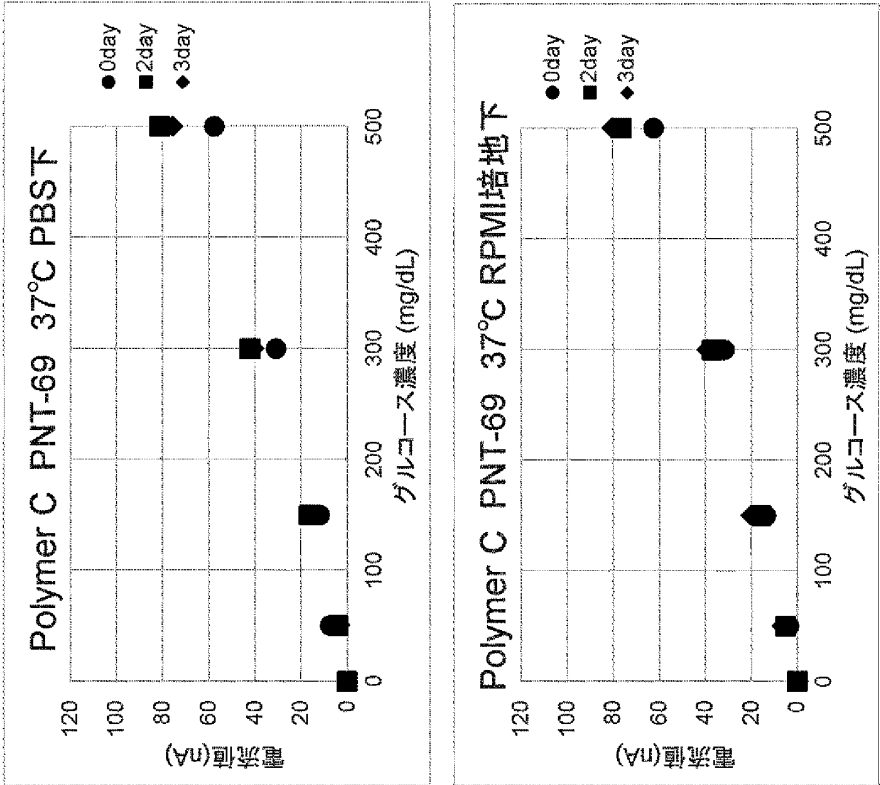


[図17]



[図18]

実施例3-4 (ポリマーC・PNT-69)



実施例3-3 (ポリマーB・PNT-69)

