

Packing for Disposable Soft Contact Lenses

藥三 B 班 D 組 B303097102 廖郁文

- 為何想到此主題？

近年來隱形眼鏡已被國人使用得相當普遍，因為隱形眼鏡的方便性及美觀性，對於有近視或是散光等眼睛問題的年輕族群而言，又是一個生活中的必備品。

然而隱形眼鏡卻有一個較麻煩的缺點，那就是「清洗」。近年來，「某位年輕病患因眼睛不適而到醫院求診，最後發現是因為隱形眼鏡未確實清洗乾淨，導致眼睛受到細菌感染…」對於上述的情況我們也都時有所聞。或許也是因為清洗上的麻煩，這幾年來「拋棄式隱形眼鏡」的上市便造福了許許多多的「懶惰人」，隱型眼鏡「用完就丟」既方便又衛生，同時也減少了許多因為隱型眼鏡不乾淨所造成的眼睛問題。

也因為拋棄式隱形眼鏡強調方便衛生，故在其製作、包裝上，也須特別注意其衛生問題，確保製作過程的無菌以及包裝的密封性。而我本身對於拋棄式隱型眼鏡的包裝也感到好奇，故找了與其相關的專利，以了解其包裝方式與種類。

- 尋找專利的過程：

1. 進入 Thomas Innovation 打入關鍵字「contact lens」

The screenshot shows the Thomson Innovation website interface. The top navigation bar includes 'View in English' and 'Logout'. A search bar at the top right contains the text 'printer'. The main content area is titled 'Marked List' and shows '32 records selected'. Below this, there is a list of patent records with columns for 'Title', 'Patent Number', and 'Date'. The records are as follows:

Title	Patent Number	Date
Prepolymers with dangling polysiloxane-containing polymer chains	US8067038B2	2011-11-29
Ophthalmic composition for soft contact lens comprising terpenoid	US8051978B2	2011-11-08
Contact lens storage container	US8022158B2	2011-09-20
Wettable hydrogels comprising acyclic polyamides	US8044111B2	2011-10-25
Actinically-crosslinkable silicone-containing block copolymers	US8043369B2	2011-10-25
Biomedical devices	US8017665B2	2011-09-13

The bottom of the page shows a footer with 'Copyright 2007-2011 THOMSON REUTERS' and links for 'Privacy', 'Terms of Use', 'Feedback', 'Contact Us', and 'Help'.

2. 找與 Packing for Disposable Soft Contact Lenses 有相關的標題及文章，且將自己所想要的專利標劑(mark)起來

Thomson Innovation - Windows Internet Explorer

http://www.thomsoninnovation.com/tip-innovation/recordView.do?pager.offset=13&recordCount=14&parentIds=null&totalRecords=32&fromRecordView=false&dataso

Patent Record View - US7967133B2

Record View: Patent US7967133B2

Add to Work File | Unmark Record | Watch Record | Download | Print

Quick View

DWPI Title ?

Single-use package for disposable soft contact lens has internal depth less than overall sagittal depth of contact lens when contact lens is in equilibrated condition

Original Title ?

Packaging for disposable soft contact lenses

Abstract ?

The present disclosure provides a contact lens package containing a contact lens in a compressed state. In one exemplary embodiment, the overall internal depth of the package is less than the natural sagittal depth of the contact lens. Different single-use contact lens package shapes and configurations may be used. In some embodiments, a spring disc is included in the packages to help present the contact lens to the user when the package is opened. The contact lens packages may be adhered or clipped to a card or other carrier sheet, and may be housed in a number of different secondary packages.

First Claim ?

1. A contact lens package comprising:

- a first flexible substrate;
- a soft unused contact lens having a first and a second side, wherein said first

Record 14 of 32

Images

Image 1/36

Zoom (+)

1 2 3 4

Unmark and Next

完成

網際網路 | 受保護模式: 關閉

Thomson Innovation - Windows Internet Explorer

http://www.thomsoninnovation.com/tip-innovation/recordView.do?pager.offset=23&recordCount=24&parentIds=null&totalRecords=32&fromRecordView=false&

Patent Record View - US7828137B2

Record View: Patent US7828137B2

Add to Work File | Unmark Record | Watch Record | Download | Print

Quick View

DWPI Title ?

Single use package for holding contact lens comprises at least one barrier layer of flexible/pliable package material, medium for maintaining lens hydration, and mechanism for enabling release of the contact lens from package

Original Title ?

Packaging for disposable soft contact lenses

Abstract ?

The present disclosure provides a contact lens package containing a contact lens in a compressed state. In one exemplary embodiment, the overall internal depth of the package is less than the natural sagittal depth of the contact lens. Different single-use contact lens package shapes and configurations may be used. In some embodiments, a spring disc is included in the packages to help present the contact lens to the user when the package is opened. The contact lens packages may be adhered or clipped to a card or other carrier sheet, and may be housed in a number of different secondary packages.

First Claim ?

1. A contact lens package manufactured with a contact lens therein, wherein

Record 24 of 32

Images

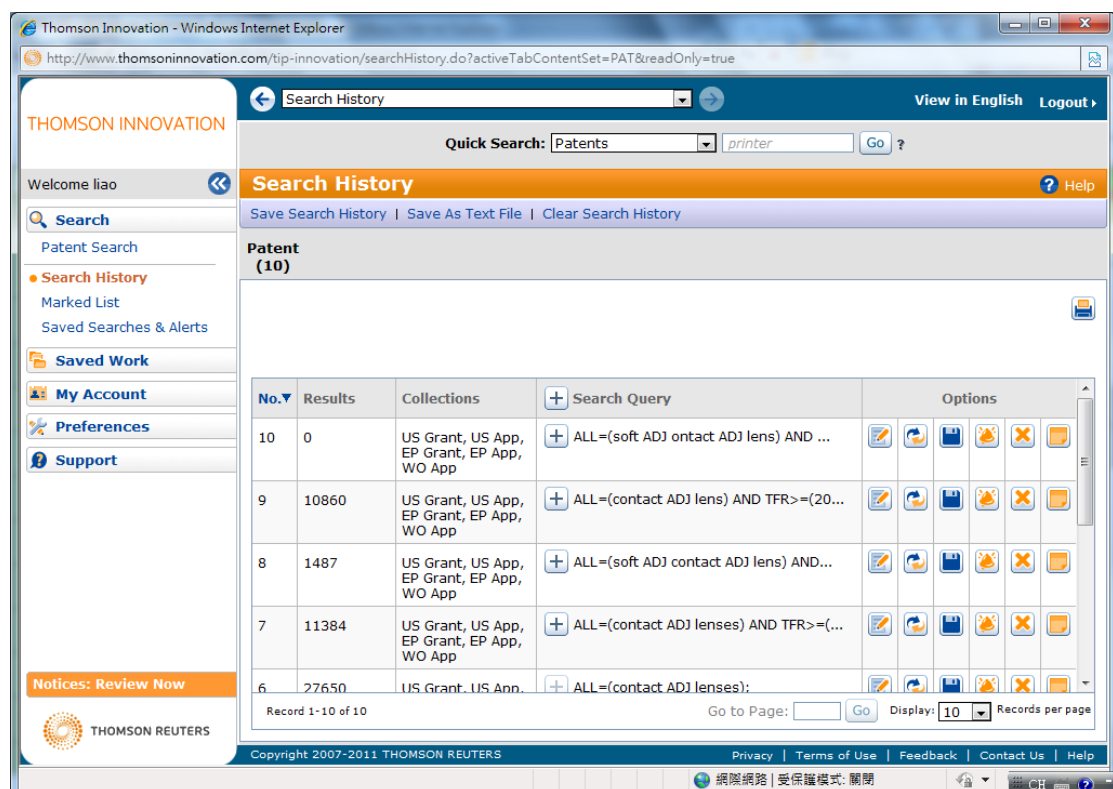
1 2 3 4

Unmark and Next

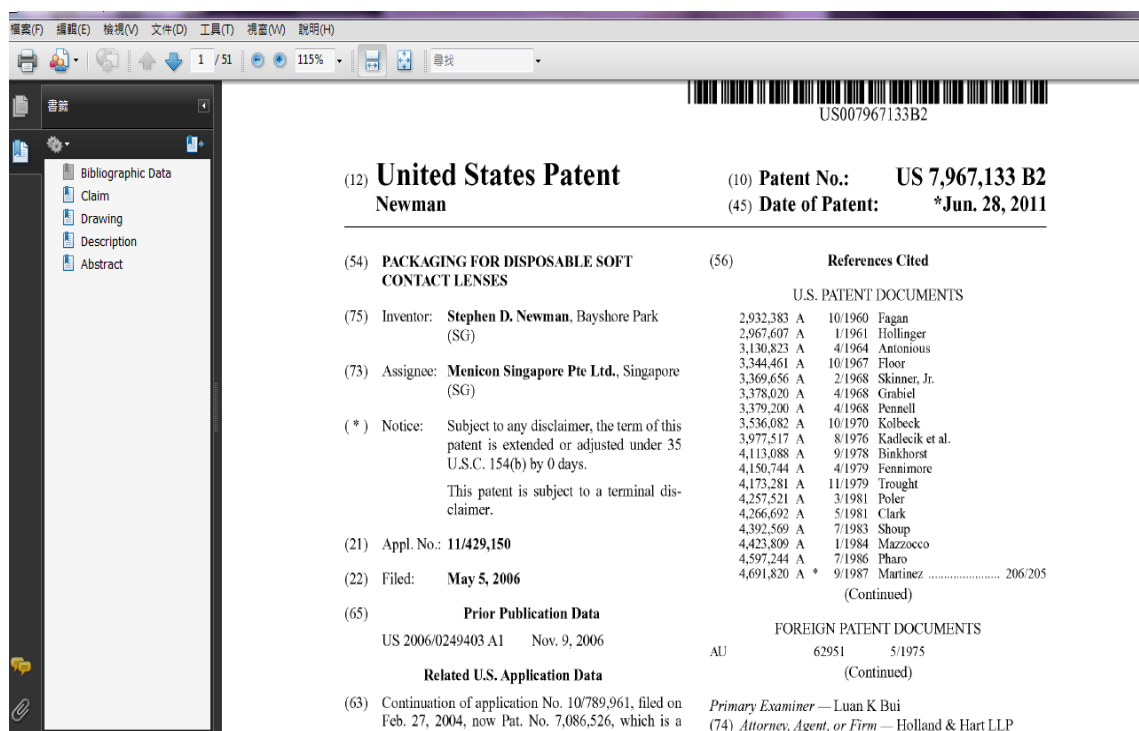
完成

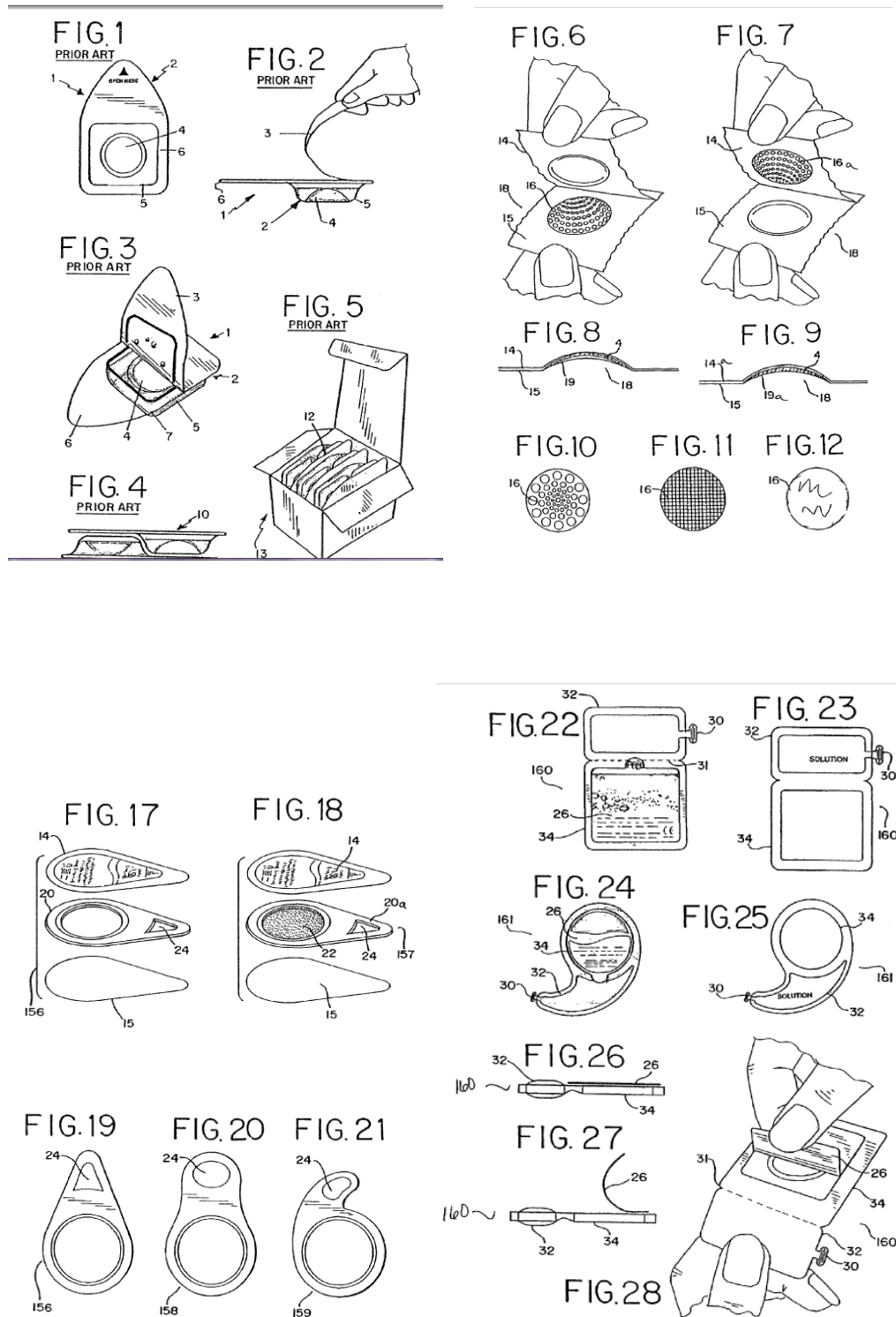
網際網路 | 受保護模式: 關閉

3. 最後再將自己需要的專利 download 下來

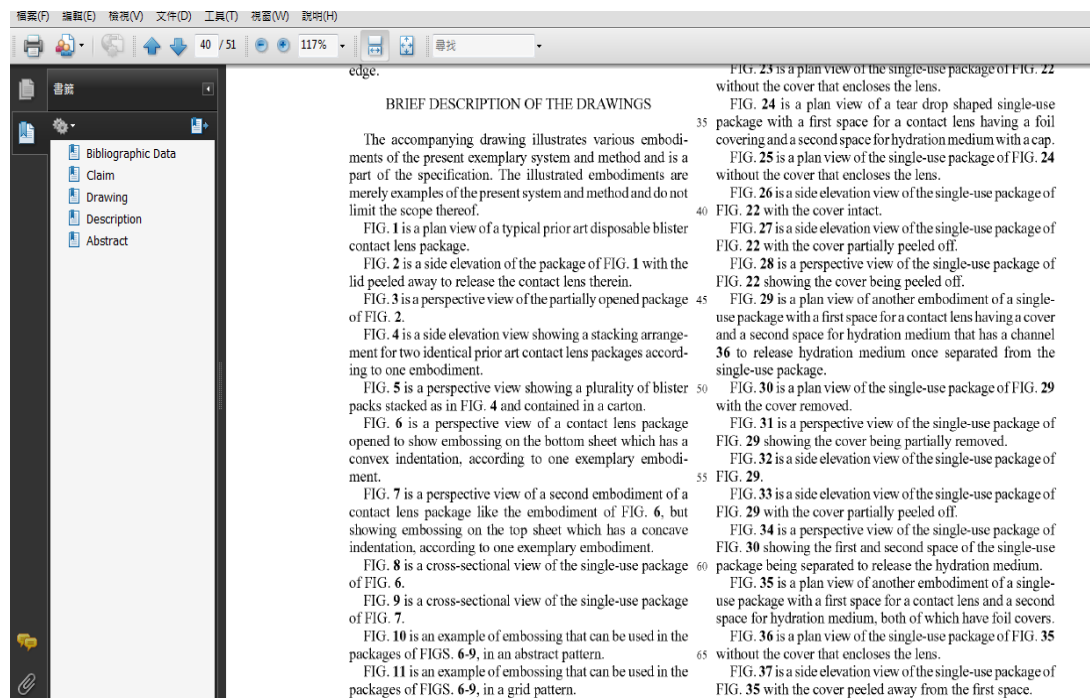


4. 最後找到專利號US7,967,133 B2的美國專利，裡面有許多不同的包裝設計，包括型狀、撕開處的設計、放隱形眼鏡處的弧度、隱形眼鏡放置的方向、將隱形眼鏡從包裝裡拿出來的方向以及最後的盒裝作業，都有所不同的。專利中秀了超過 150 張的設計圖，讓人們方便的是費了研究團隊很多心思。





5. 在專利中，撰寫者有將每一個設計一一做說明，且有去比較不同設計的特色，像是有一些設計在作盒裝時時會很省空間，有一些很好撕開，有一些使強調將裝隱形眼鏡處的弧度與隱形眼鏡的彎曲度相同，如此可以減少產品運送時隱形眼鏡被磨損的狀況。



- 使用過 Thomas Innovation 找專利的心得與感想：

有這個搜尋平台真的好方便，因為我們不用再像以前用 **google** 或是其它搜尋引擎一樣，要花時間找資料及篩選那些我們不要的或是錯誤過時的資訊，像我找到的專利，就是 2011 年才發表的，內容完整也不過時，而且專利內容好詳細，使我不必再花很多的時間去另外尋找其他在這篇專利中不足的資訊。Thomas Innovation 的使用方式也非常容易上手，就算沒有使用說明，也能夠很快就摸索出它的使用方法，許多貼心的設計跟提醒都讓人覺得這個平台很親切很有人性化。這學期也因為老師給我們機會讓我們有機會認識且去使用這個資訊平台，讓我在找其他學術資料的時候也幫了我很多忙，我覺得能夠使用這些資源真得很開心、很幸運！