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**16.03.2001 US 276870 P**

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**01975541.2 / 1 322 710**

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(54) **Modified carbocyanine dyes and their conjugates**

(57) Chemically reactive carbocyanine dyes incorporating an indolium ring moiety that is substituted at the 3-position by a reactive group or by a conjugated substance, and their uses, are described. Conjugation

through this position results in spectral properties that are uniformly superior to those of conjugates of spectrally similar dyes wherein attachment is at a different position. The invention includes derivative compounds having one or more benzo nitrogens.

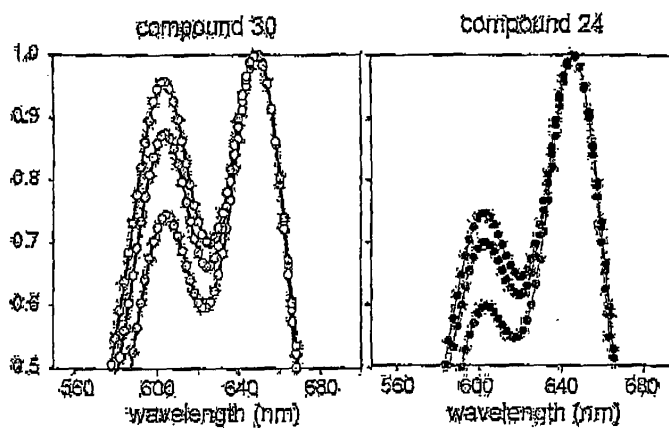


Figure 1



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The present search report has been drawn up for all claims			
Place of search The Hague		Date of completion of the search 14 November 2007	Examiner Ginoux, Claude
CATEGORY OF CITED DOCUMENTS X : particularly relevant if taken alone Y : particularly relevant if combined with another document of the same category A : technological background O : non-written disclosure P : intermediate document T : theory or principle underlying the invention E : earlier patent document, but published on, or after the filing date D : document cited in the application L : document cited for other reasons & : member of the same patent family, corresponding document			



DOCUMENTS CONSIDERED TO BE RELEVANT			
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (IPC)
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Place of search The Hague		Date of completion of the search 14 November 2007	Examiner Ginoux, Claude
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专利名称(译)	改性羧花青染料及其结合物		
公开(公告)号	<a href="#">EP1770129A3</a>	公开(公告)日	2007-12-19
申请号	EP2006025328	申请日	2001-09-28
申请(专利权)人(译)	分子探针, INC.		
当前申请(专利权)人(译)	Life Technologies公司		
[标]发明人	LEUNG WAI YEE CHEUNG CHING YING YUE STEPHEN		
发明人	LEUNG, WAI-YEE CHEUNG, CHING-YING YUE, STEPHEN		
IPC分类号	C09B23/02 G01N33/58 G01N33/533 C07D209/18 C12Q1/68 C07C66/02 C07D209/08 C07D209/12 C07D209/14 C07D209/16 C07D209/24 C07D209/54 C07D209/60 C07D403/14 C07D417/06 C07D471/04		
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代理机构(译)	HARRISON GODDARD FOOTE		
优先权	60/236637 2000-09-29 US 60/276870 2001-03-16 US		
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摘要(译)

描述了掺入吡啶环部分的化学反应性羧花青染料, 所述吡啶环部分在3-位被反应基团或共轭物质取代, 以及它们的用途。通过该位置的缀合产生的光谱性质均匀地优于光谱相似的染料的缀合物, 其中附着位于不同的位置。本发明包括具有一个或多个苯并氮的衍生化合物。

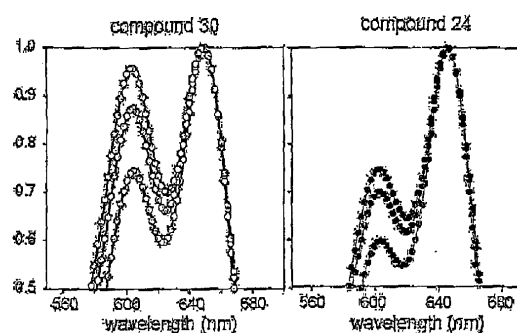


Figure 1