Scifinder: *Peumus boldus* 之毒性查詢

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Toxicological evaluation of the hydro-alcohol extract of the dry leaves of Peumus boldus and boldine in rats

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Abstract:

The hydro-alc. ext. of the dry leaves of Peumus boldus and boldine, showed abortive and teratogenic action and changes in the blood levels of bilirubin, cholesterol, glucose, alanine aminotransferase (ALT), aspartate aminotransferase (AST) and urea in rats. The long term administration of the ext. and boldine did not cause histol. modification during a period of 90 days.

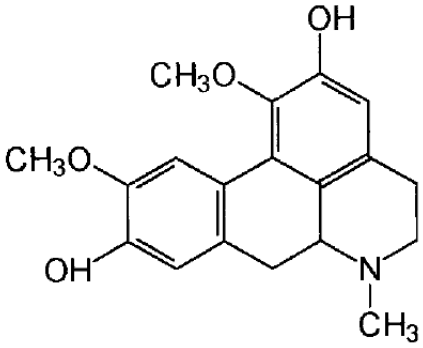

Figure 1. Chemical structure of boldine.

學習心得與使用成果：

很少有機會使用到 Scifinder，藉由這次上課及做報告的機會更了解了 Scifinder 的各項功能，一開始會覺得 Scifinder 功能很多、很複雜、似乎很難用，但是經過老師上課講解和我們當場操作，使用起來很上手，不過，要登入也不是那麼容易，申請帳號後，要用學校網路 IP，而且一次上線限 2 人，不同時間嘗試好幾次後，終於成功登入，而最近也剛好需要找 *Peumus boldus* 波爾多的毒性資料，於是我就以這個為主題，進行搜尋。

由於波爾多的資料本來就比較少，他的毒性資料就更少了，我很快的找到了我要的資料，是一個波爾多萃取物對大鼠的毒性的研究，以下是我的歸納：

1991 年 Hansel 發現波爾多葉中的揮發油含有 40% ascaridole (有毒性)，並建議孕婦不可長時間服用。本研究的目的是確定其在懷孕的老鼠的毒性和研究心臟、肝臟和腎臟組織學。此外，血液中膽固醇，膽紅素，肌酐，血糖轉氨　　AST，ALT）和尿素的變化也進行了研究。

實驗方法為將 12 組懷孕的大鼠(每組 20 隻)投予 Boldo 萃取物和 boldine，19 天後進行剖腹研究，觀察並紀錄死胎、畸形、體重變化。雄性大鼠則進行血液中膽固醇，膽紅素，肌酐，血糖轉氨酶（AST，ALT）和尿素變化的觀察，並切除

肝臟、心臟、腎臟做組織學研究。

實驗結果顯示，800 mg/kg 的劑量下造成低胎兒毒性，有觀察到畸形和胎兒體重減輕的狀況，在雄性大鼠則有觀察到血液中膽固醇，膽紅素，肌酐，血糖轉氨酶（AST，ALT）和尿素的改變。500mg/kg 的劑量不造成顯著影響。

這項實驗指出，Boldo 會影響受精卵分裂的初期，且雄性大鼠經過 30 天口服 Boldo 萃取物和 boldine 後，血中的膽固醇、ALT、AST 濃度顯著上升，膽紅素、尿素和葡萄糖濃度下降，而組織研究發現肝臟有脂肪變性的現象。所以，*Peumus boldus* 需避免長期服用，懷孕初期也不可使用。

Thomson Innovation: 遙控二輪車之專利查詢

DWPI Title

Radio-controlled motorcycle toy has front wheel support with front fork joint having elongated hole inserted with joint pin of front fork, swingably and turnably

Original Title

Two-wheeled toy vehicle by radio control

Abstract

A two-wheeled toy vehicle by radio control having a supporting member of a front wheel mounted on a vehicle body so as to control freely in steering angle and a rider-like doll mounted on an upper portion of the vehicle body, the doll response to the radio controlled steering operation, effecting parallel displacement vertically to traveling direction and horizontally to the vehicle body, the steering operation being effected by slanting the supporting member of the front wheel in accordance with displacement of the toy's gravity center caused by the parallel displacement of the doll. The supporting member of the front wheel includes a front fork joint provided with a connecting portion combined to the vehicle body and a long cylindrical member provided with an oval like opening portion at its upper part with opposite ends being jointed with a specific angle to the connecting portion.

First Claim

A two-wheeled toy vehicle by radio control having a supporting member of a front wheel mounted on a vehicle body so as to control freely in steering angle and a rider-like doll mounted on an upper portion of the vehicle body so as to swing, the doll, responsive to the radio controlled steering operation, effecting parallel displacement vertically to traveling direction and horizontally to the vehicle body, the steering operation being effected by slanting the supporting member of the front wheel in accordance with displacement of the toy's gravity center caused by the parallel displacement of the doll, wherein the supporting member of the front wheel

comprises a front fork joint provided with a connecting portion combined to the vehicle body and a tube provided with an opening portion at its upper part wherein opposite ends are jointed with a specific angle to the connecting portion, and the horizontal direction corresponds to a major axis, and a front fork provided with a connecting pin inserted into the opening portion of the tube and fixed there so as to rotate and swing, a bracket from the upper portion of which the connecting pin protrudes and two shaft members disposed underneath the bracket holding a tire between the two shaft members.

Assignee / Applicant

Standardized:

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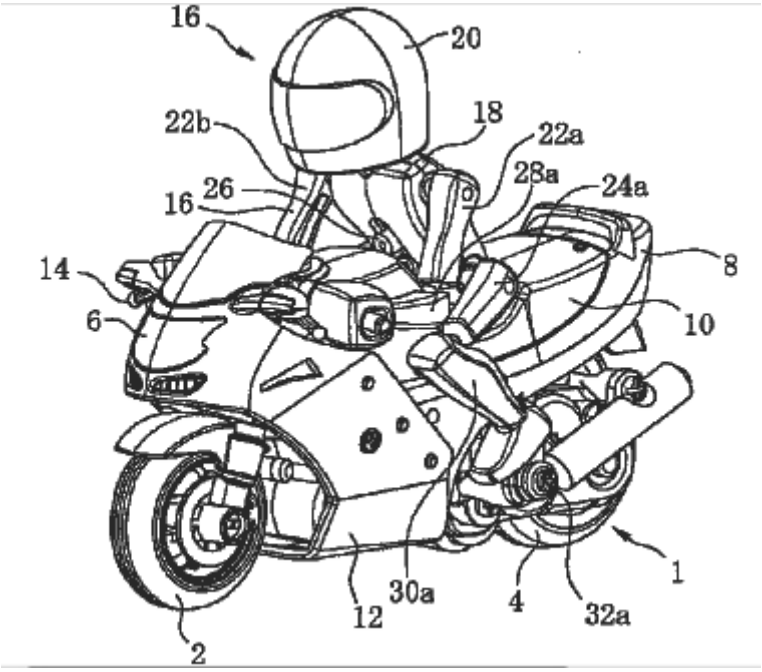


Fig. 2

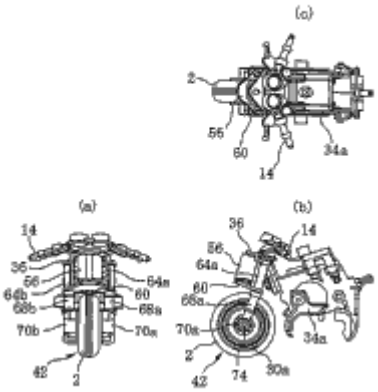


Fig. 3

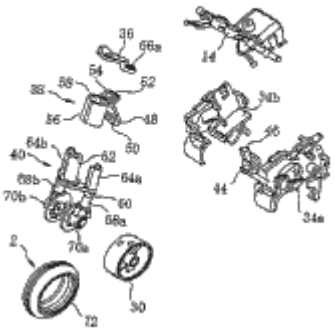


Fig. 4

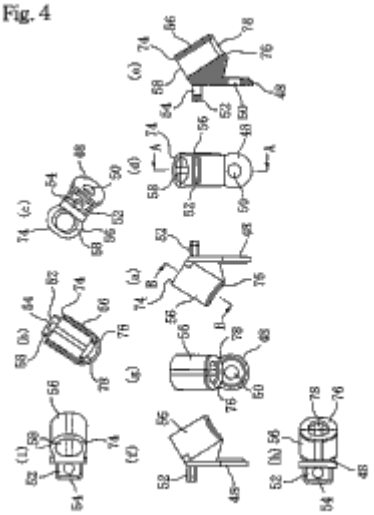
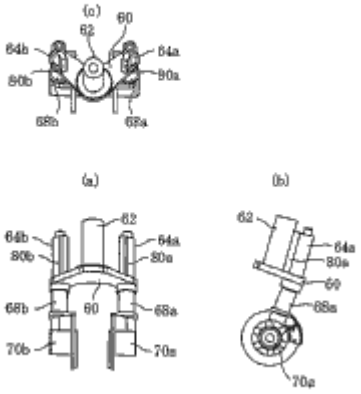


Fig. 5



學習心得與使用成果：

上 Thomson Innovation 這個網站，發現世界上的專利真是無奇不有，我使用了它的瀏覽分類的功能，透過一層一層的篩選，找到了一個遙控玩具的專利，非常有趣。這個查詢專利的平台，我們平常也許也很少有機會用到，但需要的時候就是一個非常好的管道，記得上課的時候老師有給我們一人一個臨時帳號使用，我覺得這是個很好的學習方式，就算沒有申請帳號，也可以讓我們練習操作，試用不同功能時也比較不會擔心，希望能有更多這樣的課程，讓我們更熟悉學校提供的有用資源。