

防撞鎖 Anti-Bump Lock

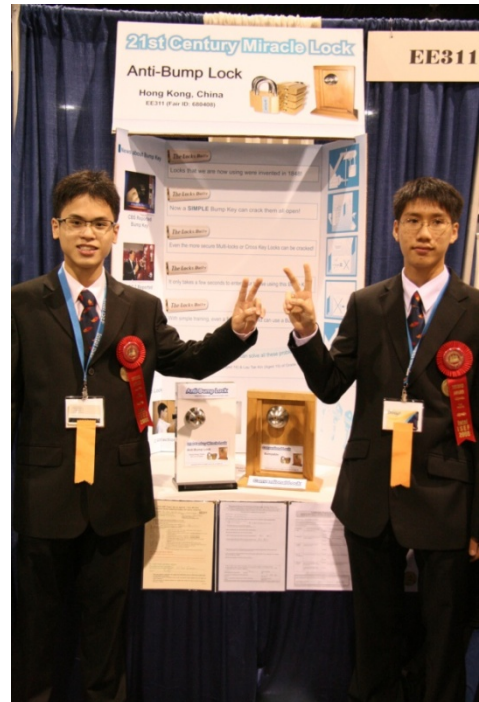
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作品簡介 Project Introduction

這發明品是把兩粒的鎖珠磁化，這兩粒鎖珠會以相反極擺放，防止在鎖外利用磁石同性相拒的特性把上下珠分開。當有人用撞匙的方法撞擊鎖珠時，被撞擊的下珠就會因磁力而緊貼著上珠而一同向上移動，鎖珠就不能整齊排列於分界線上，令鎖芯不能轉動，有效防止撞匙。

The “Anti-Bump Lock” is invented to “invisible bump lock” crime. This lock uses magnets that replaces traditional stainless steel ball-bearings inside the lock which slightly alters the mechanism in the lock opening process. The advantage of this new lock is that the exterior appearance of the lock remains unchanged and its manufacturing cost is very similar to a traditional lock. This ‘Anti-Bump Lock” can eliminate lock cracking and have passed six stringent tests, including the Anti-Bump test, torsion test, sheering test, attraction test, pulling and demagnetize test.



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主要獎項 Major Awards

- 獲國際天文學聯會把編號 25065, 25073 小行星分別命名為「劉德健星」和「劉德誠星」(2008)
International Astronomical Union named the minor planet 25065, 25073 respectively as “Lau Tak Kin” and “Lau Tak Shing”(2008)
- 第 59 屆英特爾國際科學與工程大獎賽 (2008) --- 工程學二等獎
The 59th Intel International Science and Engineering Fair (2008) --- Second Place Award in the category of Engineering
- 丹麥國家科學比賽 (2008) --- 一等獎
Danish International Science fair (2008) --- First Place Award
- 第 22 屆全國青少年科技創新大賽(2007) ---科技創新成果(中學) 一等獎
The 22th China Adolescent Science and Technology Innovation Contest(2007) --- First Place Award in the category of Science and Technology Innovation Achievements
- 第 9 屆香港青少年科技創新大賽 06-07 ---科技創新成果(初中) 一等獎
The 9th Hong Kong Youth Science & Technology Innovation Competition 06-07 --- First Place Award in the category of Science and Technology Innovation Achievements