

國立台灣大學技術行銷表

台大案號: 02A-100319 (由產學組填寫)

產學合作中心聯絡人:

電話:

e-mail:

產品/技術名稱	水下儀器佈放回收系統
發明人/單位	張翠玉/海洋研究所, 何文華/海洋研究所貴重儀器中心, 簡順忠/海洋研究所貴重儀器中心
產品/技術說明	此系統包括回訊音鼓、VHF 傳播系統、閃光燈(可以 LED 燈取代)、GPS 定位系統、重錨固定以及脫開裝置等元件, 整套系統安裝在水下施測儀器上, 可配合的儀器體的設計靈活調整各部位的裝置位置, 隨儀器下沉抵達海床以及回收上浮到水面, 其聲納回訊功能可與船上的聲納訊問功能對應, 標定儀器體於水下的座標位置, 儀器回收時, 接收到由實驗船上操作者所下達的回收訊號後, 便啟動儀器回收機制, 包括釋放重錨, 使儀器本體上浮到水面, 之後透過無線電波回傳 GPS 系統的定位座標, 並有閃光便於夜間回收儀器。
應用範圍	本回收裝置可裝置於任何需要佈放於海床以及回收的探測儀器。
產品/技術優勢	<ol style="list-style-type: none"> 1. 多功能整體化設計。 2. 輕量化與低成本。 3. 可配合不同儀器主體的設計靈活調整各部位的裝置位置。 4. GPS 系統可提供精確儀器位置, 提高儀器回收效率。 5. 獨立於主系統之外, 不會干擾主系統, 也不會受主系統的電力設計影響。
市場潛力	由於本回收裝置, 可裝置於任何需要佈放於海床以及回收的探測儀器上, 隨著海域探測的需要日增, 應為明日水下探測儀器的必備裝置。
產品/技術 智財權保護方式	(由技轉組填寫)

Marketing Abstract of NTU's Invention Disclosure

NTU's docket no: _____ (由技轉室填寫)

TTO contact :

Tel :

e-mail :

Title	Underwater deployment/recovery system
Inventor (s)	Tsui-Yu, CHANG/IONTU, Wen-Hwa, HER/ IONTU, Shuen-Jung, JIAN/IONTU
Brief Description	<p>(≤ 100 words of non-confidential information)</p> <p>This system contains one transponder, VHF radio, flash (or LED), GPS, and the anchor tying/releasing system. It will be installed upon almost any kind of underwater investigation machines. Its acoustic transponder can function to response the callings from the research vessel, so as to do location of the deploying site. Once catching the code for releasing machine, it will take off the weight (anchor), light on the flash/LED Lamp, transmit its GPS coordinate by VHF, etc. As soon as the whole machine pops up on the sea surface, the crew can easily go to recover it via the precise GPS location and flashing light, the later is very useful when to recover machines at night</p>

Fields of Application	This recovery system can cowork with any underwater instrument which needs to be recovered when the investigation is over. It specially fits the necessity of deploying location.
Advantages	<p>(when compared to the existing technologies)</p> <ol style="list-style-type: none"> 1. multi functions integrated into one package. 2. Lightweight and low cost 3. flexible installation with all shape of the principal investigating machine. 4. the GPS can provide its coordinate facilitate to find out the machine . 5. This system serves independently from the main system, it can avoid the interruption with the main investigation machine.
Market Potential	It will become the indispensable package for all kinds of the underwater investigating machines.
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