

國立台灣大學技術行銷表

台大案號: 06A-091112

產學合作中心聯絡人：

電話：

e-mail：

產品/技術名稱	多相位脈衝調變極座標發射機
發明人/單位	陳昭宏/工科海洋系 陳怡然/電機系、電子所、電信所
產品/技術說明	可應用於無線通訊設備之高效率線性功率放大器。相較於現今技術，效率與線性度無法兼得，此技術可同時達到高效率及高線性度。
應用範圍	手機、無線基地台、無線網路卡、無線電話、無線電，衛星通信
產品/技術優勢	較省電、可延長電池使用時間或手機通話時間
市場潛力	現今功率放大器耗電量可達整個無線通訊設備的三分之二，此技術可改善現今功率放大技術高達六倍。對延長現今無線通信設備使用時間將會有極大助益
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	Multi-Phase Pulse Modulated Polar Transmitter
Inventor (s)	Jau-Horng Chen, Yi-Jan Emery Chen
Brief Description	A method that is inherently linear, which is capable of efficient power amplification of signals used for communication purposes. Existing technologies trade efficiency for linearity, while this proposed method achieves both high efficiency and high linearity concurrently with low circuit complexity.
Fields of Application	Wireless handsets, Wireless base stations, Wireless network cards, Cordless telephones, Walkie-Talkies, Satellite communication
Advantages	<ol style="list-style-type: none"> 1. Longer battery life compared to existing technologies 2. Extends time between charges of mobile handheld equipments 3. Superior linearity without compromising power efficiency 4. More environmentally friendly with less electric power consumed
Market Potential	Power amplification can consume as much as two third of the total power consumed by a wireless device. This method improves existing power amplification technology by up to six times and has the potential to greatly increase the battery life of existing devices.
IP Right(s)	(由技轉室填寫)