

Title (en)  
HIGH EFFICIENCY POWER AMPLIFICATION APPARATUS WITH MULTIPLE POWER MODE

Title (de)  
HOCHLEISTUNGSVERSTÄRKERVORRICHTUNG MIT MEHRFACHLEISTUNGSMODUS

Title (fr)  
AMPLIFICATEUR DE PUISSANCE A HAUT RENDEMENT A PLUSIEURS MODES DE PUISSANCE

Publication  
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Application  
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Abstract (en)  
[origin: WO2004062095A1] The present invention relates to a power amplification apparatus provided in a wireless communications terminal and, particularly, to a high efficiency power amplification apparatus which may efficiently amplify power in accordance with various output power levels without using bypass switching circuits. The high efficiency power amplification apparatus according to the present invention makes it possible to amplify various levels of power without using bypass switching circuits so that problems in the multi-mode power amplification apparatus of the related art, such as the power loss caused by bypass switching circuits used, the increase of size of the power amplification apparatus, the decline of price competitiveness, etc., may be solved. Also, the high efficiency power amplification apparatus according to the present invention reduces the DC power loss at the low power mode so that the power added efficiency characteristic of the power amplification apparatus may be improved.

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Citation (search report)  
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• [A] US 6069526 A 20000530 - BALLANTYNE GARY J [US]  
• [A] EP 0397445 A2 19901114 - NOKIA MOBILE PHONES LTD [FI]  
• See references of WO 2004062095A1

Citation (examination)  
• US 5909643 A 19990601 - AIHARA YUUKICHI [JP]  
• OKAZAKI H. ET AL: "EFFICIENT TRANSMISSION-POWER-CONTROL SCHEME FOR KU-BAND HIGH-POWER AMPLIFIERS IN PORTABLE USER EARTH TERMINALS", IEEE TRANSACTIONS ON MICROWAVE THEORY AND TECHNIQUES, IEEE SERVICE CENTER, PISCATAWAY, NJ, US LNKD- DOI:10.1109/22.925513, vol. 49, no. 6, PART 02, 1 June 2001 (2001-06-01), pages 1167 - 1173, XP001093558, ISSN: 0018-9480

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