

Title (en)  
REDUCED POWER CONSUMPTION IN AIR CONDITIONERS

Title (de)  
REDUZIERTER STROMVERBRAUCH IN KLIMAGERÄTEN

Title (fr)  
RÉDUITE CONSOMMATION DE COURANT DANS LE DISPOSITIFS DE CLIMATISATION

Publication  
**EP 3056830 A1 20160817 (EN)**

Application  
**EP 15465552 A 20151019**

Priority  
MY PI2015700431 A 20150211

Abstract (en)  
The present invention relates to air conditioners with reduced power consumption in standby mode. The Outdoor unit of the air conditioner is provided with a zero crossing circuit 130 connected to a power source from one end and connected to the relay circuit from the other end. The power source of the zero crossing circuit 130 is cut-off by deactivating the RY-AC and RY-PWR during standby mode to reduce power consumption. The air conditioner 100 includes another microprocessor-controlled relay (RY-C) at the outdoor unit 120 connected between a terminal (T1') and a compressor, which is kept "OFF" during standby mode to reduce the power consumption. The air conditioner 100 further includes a low power, high impedance switching transformer connected between a terminal (T2') and the terminal (T1') for reducing a standby current by increasing resistance of the switching transformer that in turn results in reduced power consumption.

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Citation (search report)  
• [X] EP 2803917 A1 20141119 - DAIKIN IND LTD [JP]  
• [X] US 2014005836 A1 20140102 - BROKER JOHN F [US], et al  
• [X] JP 2010054065 A 20100311 - FUJITSU GENERAL LTD  
• [I] EP 2241831 A1 20101020 - MITSUBISHI ELECTRIC CORP [JP]

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