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**(71) Applicant(s):**

SAMSUNG ELECTRONICS CO., LTD. [KR/KR]; 129, Samsung-ro, Yeongtong-gu, Suwon-si, Gyeonggi-do 16677 (KR) (*for all designated states*)

**(72) Inventor(s):**

LIM, Jungsoo; 129, Samsung-ro, Yeongtong-gu, Suwon-si, Gyeonggi-do 16677 (KR)  
KIM, Kyoungmok; 129, Samsung-ro, Yeongtong-gu, Suwon-si, Gyeonggi-do 16677 (KR)  
KIM, Seulkiro; 129, Samsung-ro, Yeongtong-gu, Suwon-si, Gyeonggi-do 16677 (KR)  
PARK, Sunhee; 129, Samsung-ro, Yeongtong-gu, Suwon-si, Gyeonggi-do 16677 (KR)  
YANG, Hyesoon; 129, Samsung-ro, Yeongtong-gu, Suwon-si, Gyeonggi-do 16677 (KR)  
LEE, Kisup; 129, Samsung-ro, Yeongtong-gu, Suwon-si, Gyeonggi-do 16677 (KR)  
LEE, Sinyoung; 129, Samsung-ro, Yeongtong-gu, Suwon-si, Gyeonggi-do 16677 (KR)  
LEE, Jongho; 129, Samsung-ro, Yeongtong-gu, Suwon-si, Gyeonggi-do 16677 (KR)  
JUNG, Mingyu; 129, Samsung-ro, Yeongtong-gu, Suwon-si, Gyeonggi-do 16677 (KR)  
HAN, Jeongsu; 129, Samsung-ro, Yeongtong-gu, Suwon-si, Gyeonggi-do 16677 (KR)

**(74) Agent(s):**

HUH, Sung-Won; 3rd Floor, Leaders Bldg. 63, Seochojungang-ro Seocho-gu Seoul 06651 (KR)

**(54) Title (EN):** AIR CONDITIONER AND CONTROL METHOD THEREFOR

**(54) Title (FR):** CLIMATISEUR ET PROCÉDÉ DE COMMANDE ASSOCIÉ

**(54) Title (KO):** 공기조화기 및 그의 제어방법

**(57) Abstract:**

**(EN):** An air conditioner for creating a pleasant indoor environment is disclosed. The air conditioner comprises: an indoor unit having a carbon dioxide removal part, which filters out carbon dioxide from indoor air so as to supply filtered air to a room and discharges the filtered carbon dioxide to the outside; an outdoor unit having an oxygen generation part, which separates oxygen from outdoor air flowing in from the outside so as to supply same to the room, and discharges, to the outside, remaining substances from which oxygen has been separated; and a processor for controlling the carbon dioxide removal part and the oxygen generation part so as to discharge, to the outside, the filtered carbon dioxide and the remaining substances together. According to the present invention, indoor carbon dioxide is first removed, and then the carbon dioxide and the remaining substances are discharged together while an oxygen generator is operated, thereby enabling an efficient operation and facilitating pipe installation work by means of a simple pipe structure.

**(FR):** L'invention concerne un climatiseur permettant de créer un environnement intérieur agréable. Le climatiseur comprend : une unité intérieure comportant une partie d'élimination de dioxyde de carbone, destinée à éliminer par filtrage le dioxyde de carbone de l'air intérieur afin d'alimenter en air filtré un espace, et à évacuer le dioxyde de carbone filtré vers l'extérieur ; une unité extérieure comportant une partie de production d'oxygène, destinée à séparer l'oxygène de l'air extérieur coulant à partir de

l'extérieur afin d'alimenter en oxygène l'espace, et à évacuer vers l'extérieur les substances restantes à partir desquelles l'oxygène a été séparé ; et un processeur permettant de commander la partie d'élimination de dioxyde de carbone et la partie de production d'oxygène afin d'évacuer ensemble, vers l'extérieur, le dioxyde de carbone filtré et les substances restantes. Selon la présente invention, le dioxyde de carbone à l'intérieur est éliminé premièrement, puis le dioxyde de carbone et les substances restantes sont évacués ensemble pendant qu'un générateur d'oxygène est actionné, ce qui permet un fonctionnement efficace et facilite le travail d'installation des tuyaux au moyen d'une structure de tuyau simple.

**(KO):** 실내의 쾌적한 환경 조성을 위한 공기조화기가 개시된다. 공기조화기는 실내의 공기로부터 이산화탄소를 여과하여 실내로 공급하고, 상기 여과된 이산화탄소를 실외로 배출하는 이산화탄소제거부를 가진 실내기, 실외로부터 유입된 실외공기로부터 산소를 분리하여 실내로 공급하고, 상기 산소가 분리된 잔류물을 실외로 배출하는 산소발생부를 가진 실외기 및 상기 여과된 이산화탄소와 상기 잔류물을 함께 실외로 배출하도록 상기 이산화탄소제거부와 상기 산소발생부를 제어하는 프로세서를 포함한다. 본 발명에 의하면, 먼저 실내의 이산화탄소를 제거한 후 산소발생기를 가동하면서 이산화탄소와 잔류물을 함께 배출함으로써 효율적인 운전이 가능할 뿐만 아니라 간단한 배관 구조에 의한 배관 설치 작업이 용이하다.

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