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(57) Abstract :

Title: APPARATUS AND METHOD FOR GENERATING OXYGEN ABSTRACT An oxygen generating apparatus (100), comprising: an oxygen collection unit (102). The oxygen collection unit (102) comprises: an oxygen level sensor (110) to sense a level of oxygen in plants (108); a first controller (114) configured to: receive the sensed level of oxygen from the oxygen level sensor (110); compare the sensed level of oxygen with a first pre-set oxygen level and a second pre-set oxygen level; and activate an air extraction pump (112) to extract an oxygenated air from the plants (108), when the sensed level of oxygen exceeds the first pre-set oxygen level. The apparatus (100) further comprising: an oxygen separation unit (104) configured to separate a liquid oxygen from the oxygenated air by using a fractional distillation process; and an oxygen accumulation unit (106) configured to accumulate the separated liquid oxygen in a high-pressure oxygen cylinder (132). Claims: 10; Figures: 9 Figure 1A is selected.

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