

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202011041261 A

(19) INDIA

(22) Date of filing of Application :23/09/2020

(43) Publication Date : 25/03/2022

(54) Title of the invention : APPARATUS FOR MANAGING ENERGY CONSUMPTION OF AIR CONDITIONER

(51) International classification	:H01M0010656300, B64F0001360000, G06N0005040000, H01M0008047910, F24F0011300000	(71) <b>Name of Applicant :</b> <b>1)Chitkara Innovation Incubator Foundation</b> Address of Applicant :SCO: 160-161, Sector - 9c, Madhya Marg, Chandigarh- 160009, India. Chandigarh India
(31) Priority Document No	:NA	(72) <b>Name of Inventor :</b>
(32) Priority Date	:NA	<b>1)BANSAL, Tushar</b>
(33) Name of priority country	:NA	<b>2)GARG, Deepanshu</b>
(86) International Application No	:NA	
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

The present disclosure relates to an apparatus (100) for managing energy consumption, the apparatus including: an air conditioning unit (102) adapted to supply conditioned air in premises, an air flow conduit (110) adapted to receive air from the premises, an air accumulator (108) adapted to pre-cool the received air, and one or more sensors (112) can be operatively coupled to the air flow conduit, the one or more sensors adapted to monitor temperature attributes of the premises, wherein, based on the temperature attributes of the premises, the air conditioning unit is operated to receive the air from the premises through the air flow conduit to be pre-cooled by the air accumulator, the pre-cooled air from the air accumulator is processed to supply the conditioned air to facilitate energy management of the air conditioning unit.

No. of Pages : 16 No. of Claims : 9