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(31) Priority Document No	:NA	(72) Name of Inventor :
(32) Priority Date	:NA	1)NAMITA SHARMA
(33) Name of priority country	:NA	2)BABITA KUMARI
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(57) Abstract :

The present invention "An IoT-Enabled Device for Smart Air Conditioner Energy Management" comprises an IoT sensor module (101), temperature control unit (102), cloud analytics system (103), user interface module (104), power optimization controller (105), and smart air conditioning system (106). The system intelligently monitors environmental conditions, predicts user needs, and dynamically adjusts operations to ensure optimal comfort with minimal energy consumption. The device supports remote control, predictive analytics, and cross-platform interoperability, offering an efficient, intelligent, and sustainable solution for modern climate management.

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