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## Patent Search

Invention Title	EVAPORATIVE AIR COOLING SYSTEM
Publication Number	24/2020
Publication Date	12/06/2020
Publication Type	INA
Application Number	201821046565
Application Filing Date	10/12/2018
Priority Number	
Priority Country	
Priority Date	
Field Of Invention	MECHANICAL ENGINEERING
Classification (IPC)	F24F0005000000, F24F0006040000, F02B0029040000, H04N0005740000, F01D0005040000

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### Abstract:

The present invention relates to an evaporative air cooler. The proposed system designed most advanced, powerful, effective and energy efficient, economical air cooler consist of same components as other cooler only difference is there is absence of water lifting pump and having roller operated pads instead of normal pads. air cooler required negligible maintenance, no need to change wood wool pad every year as it is replaced by water absorbing pads for example twine sheet and it give cooling effect. Its overall cost is also less than others. Following invention is described in detail with the help of Figure 1 and 2 of sheet 1 showing the view from front, of sheet 2 showing the view from side.

### Complete Specification

Claims:We claim:-

1. Evaporative air cooling system having water absorbing material operated by roller which gives quick and excellent cooling experience comprises of motor, fan, storage tank and roller operated water absorbing air pads characterized in that;

at the top of the pad it consist of motor, which is connected to roller through gears;

gear motor is attached to one gear of roller and gears are provided at either end of the rollers and top roller is connected to bottom roller by means of belt;

water absorbing material is mounted on the belt;

bottom roller is totally dipped inside the water in storage tank, as shaft of gear rotor start to rotate, roller attached to it also rotate and cause to rotate second roller is connected to first roller via belt;

hence water absorbing material mounted on belt also rotate and get wet when it passes through bottom roller as bottom roller totally dip inside the water storage

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Page last updated on: 26/06/2019