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(57) Abstract :

ABSTRACT Efficient textile drying system with microwave heating, centrifuge technology and vacuum technology The present disclosure introduces efficient textile drying system with microwave heating, centrifuge technology and vacuum technology. This innovation offers an efficient, cost-effective, and environmentally friendly system which comprises of microwave heater 200 comprising of microwave generator 202, microwave radiators 204, and control system for microwave heating 206, vacuum pump 300, centrifuge drying unit 400 comprising of rotating drum 402, electric motor 404, bearings 406, outer drum 408, stationary base of drum 410, and shock absorbers 412, infrared sensors 500. By replacing traditional heating methods with microwave radiation, it significantly reduces energy consumption and accelerates drying times. REFERENCE FIG 1

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