

Application Details

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APPLICANT NAME	K. J. Somaiya College of Engineering
TITLE OF INVENTION	A VACUUM DRYER SYSTEM
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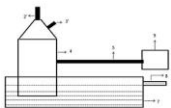
(54) Title of the invention : A VACUUM DRYER SYSTEM

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(57) Abstract :

The invention relates a vacuum dryer system. There was a long standing need of an economic and effective dryer operating at low temperature ensuring the retaining of texture and consistency of heat-labile materials. The vacuum dryer system of current invention comprises a liquid stored bottom tank, a vertical tower with a closed top end and an open bottom end connected with each other through the sidewalls providing internal space for mixing and heat exchange of different temperature liquids; having three separate inlets for entry of a hot liquid, entry of a cold liquid and for air suction respectively; and having its bottom end dipped down in the liquid stored in said bottom tank, wherein the vacuum drying is achieved by connecting the wet object with the air suction inlet while allowing simultaneous entry and mixing of different temperature liquids inside said vertical tower through other inlets. The operative cost for this system is very less compared to the other vacuum drying systems. Thermal degradation can be totally avoided using this system. Refer Fig. 1



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