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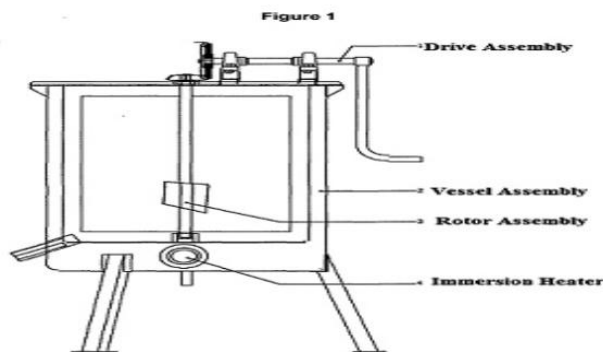
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(57) Abstract :

The present invention works on the principal of gravity settling and centrifugal force. Gravity clarifiers are tanks which hold extracted honey for the settlement of any impurities such as wax particles, insect parts, air bubbles and other debris. This instrument acts as an integrated extractor processor assembly due to which it is more efficient in terms of energy consumption and use of space. The honey processor unit consists of (i) drive assembly, (ii) vessel assembly, (iii) rotor assembly and (iv) immersion heater chamber of geothermal water. The processing will be performed in two stages first the jacket will be filled with 40oC water and heated up to 48 hours and in second stage the jacket will be filled with 75-80oC water and heated for 24 hours. The conceptual design is the combined honey extractor and processor assembly, which will also act as a settling and filtering tank. All the operations of honey extraction, processing, settling and filtering which could have been done by using four different equipment will now be carried out in this one unit equipment (the combined honey extractor and processor assembly). The equipment which is designed, will extract honey from honey combs in frames by a centrifugal force, and will process it by indirect heating through a heat transfer medium and settling and filtering in the same unit for packaging.



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