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(57) Abstract :
ABSTRACT AN APPARATUS FOR MEASURING EXTRUDABILITY OF SEMISOLID FORMULATION Aspects of present disclosure relate to an apparatus for characterizing mechanical property of a semisolid formulation, more specifically, it pertains to an apparatus for measuring the extrudability of a semisolid formulation. This apparatus works on a weight-based sensor connected to a plate collecting the semisolid formulations when squeezed out after applying a fixed force or weight. The sensor converts the input weight into an electrical output. An analogue to digital converter (ADC) turns the weight into digital signals that microcontrollers can readily interpret. The display module then indicates the volume of material extruded from the tube as well as the percentage of extrudability alongwith the LED indications. When the LED indicator is red, it implies that the extrudability fails to comply with acceptance limit range provided by pharmacopoeia and the alarm buzzer starts ringing.

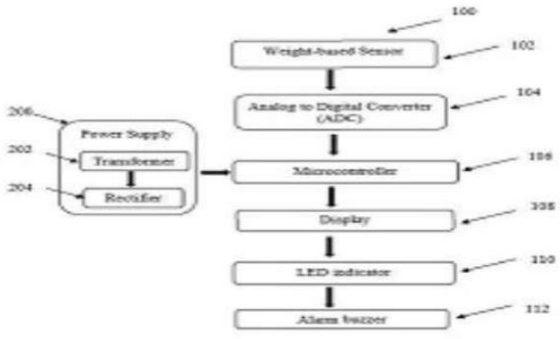

FIG. 1

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