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(57) Abstract :
ABSTRACT AN AUTOMATIC TABLET WEIGHT VARIATION TESTING APPARATUS The present disclosure discloses an automatic tablet weight variation testing apparatus for determining tablet's weight uniformity,20 tablets are randomly selected from a batch of tablets and weighed individually. The weight sensors automatically determine the average weight of these 20 tablets and convert input weight into an electrical output signal that can be measured, converted, and standardized, the analog to digital converter (ADC) converts these weight signals into digital signals and send them to the microcontroller. The microcontroller determines the limits more specifically upper limit and lower limit values from the Indian pharmacopocial range limit pre-stored in the microcontroller and compares the individual tablet values to the upper limit and lower limit values. if more than two tablets are not within the acceptance limit then the batch will not pass the weight variation test and the buzzer starts to ring and inform the user.

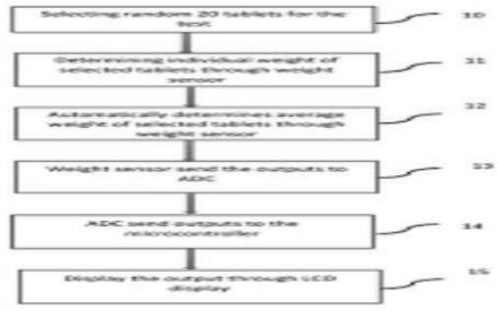

Fig.1

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