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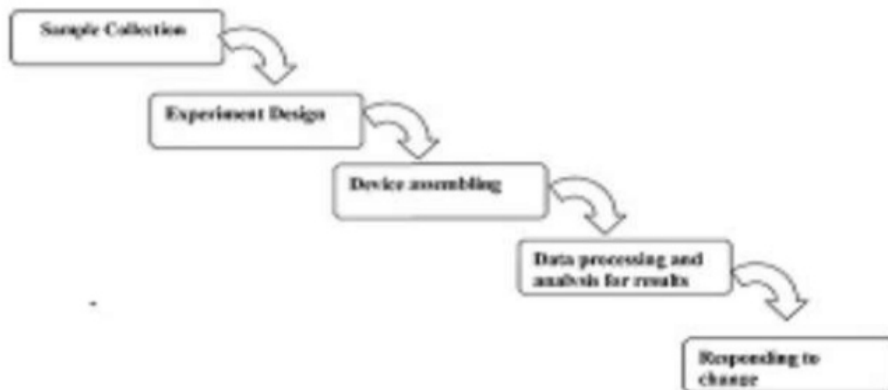
(54) Title of the invention : DETECTION AND SORTING TECHNIQUE FOR ROTTEN ONION USING DIGITAL IMAGE PROCESSING THROUGH IOT.

<p>(51) International classification :A23N0015080000, G01N0021810000, C08F0038000000, C08F0238000000, C08F0138000000</p> <p>(86) International Application No :NA Filing Date :NA</p> <p>(87) International Publication No : NA</p> <p>(61) Patent of Addition to Application Number :NA Filing Date :NA</p> <p>(62) Divisional to Application Number :NA Filing Date :NA</p>	<p>(71)Name of Applicant : 1)Nandkumar Ramesh Mali Address of Applicant :aai niwas sarswati colony shivaji nagar -----</p> <p>Name of Applicant : NA Address of Applicant : NA</p> <p>(72)Name of Inventor : 1)Shri Nandkumar Ramesh Mali Address of Applicant :M.S.G ARTS SCIENCE AND COMMERCE COLLEGE MALEGAON CAMP MALEGAON NASHIK MH -----</p> <p>2)Dr. Pravin Suresh Patil Address of Applicant :M.S.G ARTS SCIENCE AND COMMERCE COLLEGE MALEGAON CAMP MALEGAON NASHIK MH -----</p> <p>3)Dr.Dinesh Fakira Shirude Address of Applicant :M.S.G ARTS SCIENCE AND COMMERCE COLLEGE MALEGAON CAMP MALEGAON NASHIK MH -----</p>
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(57) Abstract :

ABSTRACT Onion is a important vegetable crop in the world. However, a range of plant diseases, such as bitter pores and skin brought about by means of Burkholderiacepacia, pose a gorgeous chance to theonion enterprise via decreasing shelf-life and are accountable for widespread postharvest losses in each traditional and managed surroundings (CA) storage. This learn about investigated a new visualizing method to notice bit pores and skin the use of a cameras - IoT based totally and the guide Digital photograph processing , Sour pores and skin contaminated onions hav been notice manually via people ; they had been take a look at no longer ony moister or moist onion and additionally visible take a look at colorati of pores and skin of onion it is in black noticed put in a waste . Huge storage of onion has very time eating and massive quantity of labours work o identical ; accuracy of work goes to very much less additionally loads of barrier to nice work as follows. - Huge scale of onion - No environment friendly coaching and preserve hygiene. - Worker negligence . - Climate have an effect on . - Availability of labours Principal thing evaluation rati plots confirmed two awesome clusters shaped via healthful and bitter pores and skin contaminated onions. The statistical check similarly proved th speculation that the responses of the E-eye onion bulbs and bitter pores and skin contaminated onion bulbs are extensively . The guide vector computer was once employed for the classification mannequin development. The learn about used to be undertaken in two phases: mannequin coaching and cross-validation inside the coaching datasets and modelvalidation the usage of new datasets. The performances of three characteristic determination schemes have been in contrast the use of the skilled electronic model. This end result proved that fine function decision approach ma want to enhance the discrimination e-eye.This learn about confirmed the feasibility of the use of a fuel the detection of bitter skin in onion. Early detection of bitter pores and skin will assist minimize postharvest losses and secondary unfold of micro organism in storage.

Figure 1. Block Diagram of Development Phase



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