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Patent Search

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Abstract:

The tender usage is increasing every year enormously due to its mineral and nutrients content even though a lot of ready-to-use drinks are available to the increase in the number of fitness freaks in the cities every day around 2.50 lakh to 3.00 lakh tender coconuts are sold daily. Technology develops various by-products from coconut, giving considerable added value to the farmers and vendors. One of the underutilized coconut parts is tender coconut pulp is unused and discarded in the environment, especially those from vendors and the coconut oil industry. The main objective of our project is to extract tender coconut pulp after drinking coconut water and convert it into useful products like coconut milk, coconut syrup, coconut jelly, and coconut ice-creams, etc. The development of Pulp Extraction Technology from the Underutilized Byproduct of Tender Coconut (COCO BIZ) an automatic tender coconut pulp and integrated with Automatic coconut water extraction unit (1) to extract the water (2) from tender coconut automatically; cutting unit (3) consists of an automatic tender coconut into two equal parts, scanning unit (4) mainly used to capture the images of pulp inside the coconut, classification unit (5) is to decide whether the pulp is lenient or dense, scraping unit consist of the lenient scraper (6) is a simple stainless steel coconut pulp removal tool and slices the coconut into small parts. The stainless steel blade that cuts the dense coconut pulp into simple flakes and pulp storage unit consist two stainless steel containers at a temperature change in the nature of lenient (7) and dense pulp (9) from tender coconut. The model and approach are described in detail with the help of the figure showing the overall structure of COCO BIZ (Automatic Tender coconut pulp and water extraction machine).

Complete Specification

Claims:We claim:

1. Development of Pulp Extraction Mechanism from the Underutilized Byproduct of Tender Coconut (COCO BIZ) an automatic tender coconut pulp machine is integrated with Automatic coconut water extraction unit, cutting unit, scanning unit, classification unit, scraping and storing units comprising:
 - a. Coconut water extraction unit (1) mainly consists of a simple tool to make a hole into the tender coconut from the top of the coconut. It will be made of steel with a sharp tooth. It is also associated with pour spout with a filter to extract coconut water (2) properly and to remove extra fibers from the coconut by a small electric motor associated with automatic tender coconut water and pulp extractor as in claim 1
 - b. Coconut cutting unit (3) to cut the coconut into two equal parts. The automatic tender coconut water and pulp extraction device is associated with holders to hold the coconut between them. It also consists of an electric cutter which cuts the coconut into two equal parts when the vendor presses the button. as in claim 1.
 - c. Coconut pulp scanning unit (4) consists of a small camera placed in a simple device. It is a part of the automatic tender coconut water and pulp machine. When the vendor presses a scan button in the machine it will be inserted into the coconut and capture the image and store the image in the device. It is used to capture the images of pulp inside the coconut to decide whether it is a lenient or a dense pulp as in claim 1.
 - d. Coconut pulp classification unit (5) consists of a simple machine learning algorithm. It is completely a software unit. Its main intention is to classify the image extracted from the coconut pulp scanning unit. Here we will use a machine-learning algorithm to classify the image extracted from the coconut pulp scanning unit. The unit is completely trained with dense pulp images. The unit can detect automatically whether a given image is lenient or dense based on the captured image as in claim 1.

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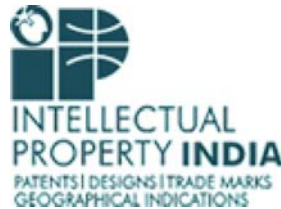
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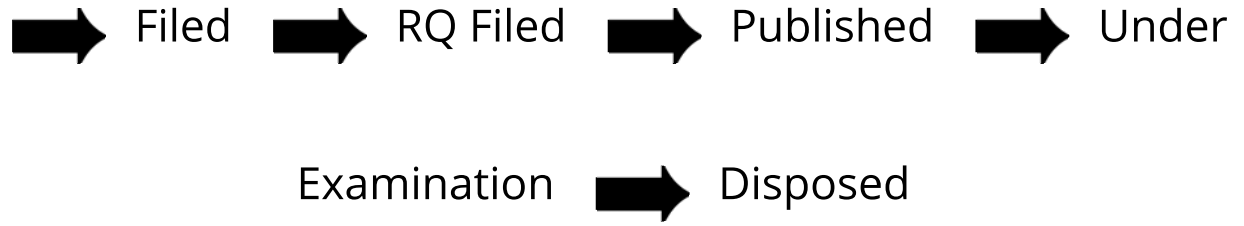


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