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(54) Title of the invention : TENDER COCONUT PUNCHING CUM CUTTING MACHINE

(51) International classification	:A23N1/00	(71)Name of Applicant :
(31) Priority Document No	:NA	1)BALAKRISHNAN THAMPI RAMESH
(32) Priority Date	:NA	Address of Applicant :SCHOOL OF LIFE SCIENCES,
(33) Name of priority country	:NA	RAJAGIRI COLLEGE OF SOCIAL SCIENCES,
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Filing Date	:NA	(72)Name of Inventor :
(87) International Publication No	: NA	1)BALAKRISHNAN THAMPI RAMESH
(61) Patent of Addition to Application Number	:NA	2)NEENTHAMADATHIL MOHANDAS
Filing Date	:NA	KRISHNAKUMAR
(62) Divisional to Application Number	:NA	3)KARUKAPPILLIL XAVIER JOSEPH
Filing Date	:NA	4)RAHUL RAMESH

(57) Abstract :

A simple and low cost punching cum cutting machine has been developed. The invention relates to a machine that can be used in a quite easy way for both punching and cutting of Tender coconuts in a hygienic way without much human effort. The machine has several uniqueness. It is low cost when compared to any other machine performing the same function. The machine is manually operable and offers optimum hygiene besides provision for filtering and bottling of tender coconut water in a quite easy way. It will not create any problem due to the scattering of tender coconut husk parts on cutting as in the case of conventional tender coconut cutting machines. In that sense it is eco-friendly, highly durable and involving low maintenance charges. This machine avoids the time consuming work of tender coconut vendors and those who are involved in supply of tender coconut water. The machine consists of a Stainless Steel (S.S) pipe having a length of 27.5 inches with a perforated, pointed punching part on one end and a cutting part on the opposite side below the punching part. The tender coconut is placed on a Stainless Steel mounting stand, which is circular and hollow in shape with a diameter of 4.5 inches and a height of 9 inches with the lower portion bend outside for providing more grip to the surface at the time of cutting. 0.5 mm Stainless Steel plates were used for the lower portion of the stand 0.25 inch size of Stainless Steel pipes were used for making the upper circular portion. This machine is low cost without any complicated parts or complex operations, compared to any of the devices available in the market/Chances of getting injuries during operation is very low. It is easy to carry, eco-friendly, highly durable and involving low maintenance charges. It enable one to establish one's own micro-enterprise with a very low investment. Even an unskilled person can operate it and the uniqueness of the machine is that it is a single machine having multiple operations instead of using separate machine for punching and cutting.

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