

A SAFETY MECHANISM FOR A COCONUT SCRAPER

TECHNICAL FIELD

Present disclosure generally relates to an electric motor driven appliance. Particularly, but not exclusively, the present disclosure relates to a coconut scraper. Further embodiments of the present disclosure discloses the coconut scraper employed with a lid and a safety mechanism.

BACKGROUND OF THE DISCLOSURE

Devices for extracting flesh from nuts such as walnuts, areca nuts, pecans and the like are known in the art. Unlike the nuts mentioned above, coconut has a large, substantially spherical shell. This shape of the coconut makes it difficult to grate or scrape flesh from the coconut shell using conventionally known instruments/contraptions. However, in the past, several sharp tools have been used to scrape flesh from the coconut shell manually by hand, and chances of such tool piercing into user's hand is very likely, causing injuries to the user.

Conventionally, there are known devices for grating or scraping flesh from the coconut shells. These devices require muscle power of the user for scraping the flesh from the coconut shell. Usually, the process includes user holding the coconut shell with flesh in a hand and turn the shaft connected to a scraper blade for rotating the scraper blade. The coconut shell is then pressed on to the rotating blade to scrape the flesh. However, such a process requires the user to manually rotate the shaft connected to the scraper blade for scraping, where a lot of muscle power to be applied from the user's end. Further, the user must give enough support for the scraper to prevent the scraper from vibrating, wobbling and the like motion during scraping operation.

With advancements in technology, powered scrapers have evolved in which the scraper blade is rotated by a driving unit such as a motor, powered by electricity. Generally, electrically powered scrapers includes the scraping blade exposed outside on which the coconut shell to be scrapped is placed or pressed. In some instances, during scraping the coconut shell pressed against the scraping blade may slip from user's hand, posing safety risk to the user, as user's hand may contact the

rotating scraping blade. Further, in some instances i.e. post scraping operation, unintentional switching ON the scraper may occur, again posing safety risks to the user and the surroundings, since the user's hand may contact the rotating scraping blade causing injuries, which is undesired.

The present disclosure is directed to overcome one or more limitations stated above or any other limitations associated with the devices known in art.

SUMMARY OF THE DISCLOSURE

In light of the above, there exists a need and it would be advantageous to develop a coconut scraper provided with a lid and a safety feature to ensure safety of a user. It would also be desirable to enable powering of the motor of the coconut scraper only upon operating the lid to a closed condition, enclosing the bowl and thereby the tool assembly. To better address one or more of these concerns, in a first aspect of the disclosure a lid for the coconut scraper is presented. The lid includes a flexible enclosure defined with a contour to receive and support a coconut shell. Additionally, the lid includes a flange portion extending along a periphery of the contour. Further, the lid includes a retaining element coupled to the flange portion of the flexible enclosure. The retaining element is configured to activate an activation unit in the closed condition of the lid, for powering a motor of the coconut scraper. Therefore, the lid facilitates in powering the motor only when operated to the closed condition and thus ensuring safety of the user.

In an embodiment, the retaining element comprises a first support member and a second support member, wherein the first support member and the second support member are configured to abut the flange portion for supporting the flange portion. The retaining element aids in handling the lid.

In an embodiment, the flexible enclosure is made of a polymeric material. This facilitates in receiving and supporting coconut shells of different sizes and shapes.

In a second aspect of the disclosure a safety mechanism for a coconut scraper is disclosed. The safety mechanism includes a lid receivable by the bowl of coconut scraper and operable between an open condition and the closed condition. Further, the safety mechanism includes an activation unit communicatively coupled to the motor of the coconut scraper. The lid is configured to activate the activation unit in the closed condition to power the motor of the coconut scraper.

In an embodiment, the activation unit is at least one of a micro switch, a contact sensor, and a non-contact sensor.

In an embodiment, the lid is configured to be movable in the closed condition, to facilitate scraping various contours of a coconut shell, during scraping.

In a third aspect of the present disclosure, a coconut scraper is disclosed. The coconut scraper includes a base accommodating a motor. Further, the coconut scraper includes a bowl, positioned on the base and a tool assembly coupled to a motor and extending into the bowl. Furthermore, the coconut scraper includes a lid receivable by the bowl of coconut scraper and operable between an open condition and the closed condition. Additionally, the coconut scraper includes an activation unit communicatively coupled to the motor of the coconut scraper. The lid is configured to activate the activation unit in the closed condition to power the motor of the coconut scraper.

The foregoing summary is illustrative only and is not intended to be in any way limiting. In addition to the illustrative aspects, embodiments, and features described above, further aspects, embodiments, and features will become apparent by reference to the drawings and the following detailed description.

BRIEF DESCRIPTION OF ACCOMPANYING DRAWINGS

The novel features and characteristics of the disclosure are set forth in the appended claims. The disclosure itself, however, as well as a mode of use, further objectives, and advantages thereof, will best be understood by reference to the following detailed description of the embodiments when read in conjunction with the accompanying drawings. One or more embodiments are now described, by way of example only, with reference to the accompanying drawings wherein like reference numerals represent like elements and in which:

Figure. 1 illustrates an exploded view of a coconut scraper, in accordance with an embodiment of the present disclosure.

Figure. 2 illustrates a sectional view of the coconut scraper in assembled condition, in accordance with an embodiment of the present disclosure.

Figure. 3 illustrates a perspective view of a lid of the coconut scraper of **Figure. 1**, in accordance with an embodiment of the present disclosure.

Figure. 4 illustrates a sectional view of the coconut scraper of **Figure. 1**, with a lid in open condition.

Figure. 5 illustrates a sectional view of the coconut scraper of **Figure. 1**, with the lid in closed condition.

Figures. 6a and 6b are schematics of an electric circuit of the coconut scraper, in accordance with an embodiment of the present disclosure.

The figures depict embodiments of the disclosure for purposes of illustration only. One skilled in the art will readily recognize from the following description that alternative embodiments of the structures and methods illustrated herein may be employed without departing from the principles of the disclosure described herein.

DETAILED DESCRIPTION

While the embodiments in the disclosure are subject to various modifications and alternative forms, specific embodiments thereof have been shown by way of example in the figures and will be described below. It should be understood, however, that it is not intended to limit the disclosure to the particular forms disclosed, but on the contrary, the disclosure is to cover all modifications, equivalents, and alternative falling within the scope of the disclosure.

It is to be noted that a person skilled in the art would be motivated from the present disclosure and modify various features of providing a lid and a safety mechanism for a coconut scraper. Therefore, such modifications are considered to be part of the disclosure. Accordingly, the drawings show only those specific details that are pertinent to understand the embodiments of the present disclosure, so as not to obscure the disclosure with details that will be readily apparent to those of ordinary skilled in the art having benefit of the description herein.

The terms “comprises”, “comprising”, or any other variations thereof used in the disclosure, are intended to cover a non-exclusive inclusions, such that an assembly or unit that comprises a list

of components does not include only those components but may include other components not expressly listed or inherent to such mechanism, system, method, or assembly, or device or unit. In other words, one or more elements in an assembly or unit preceded by “comprises... a” does not, without more constraints, preclude the existence of other elements or additional elements in the system or device.

Embodiments of the present disclosure discloses a safety mechanism for a coconut scraper. In conventional scraper devices, coconut shell is directly contacted by an operator during scraping operation posing safety risks, as the coconut shell may slip during scraping operation. In some instances, the user may unintentionally switch ON the coconut scraper, again posing safety risks to a user, as there are high chances that, the user's hand may contact the rotating scraping blade causing injuries, which is undesired. Further, during scraping, the scraped flesh may spill out of the bowl, causing inconvenience to the user.

Accordingly, the present disclosure discloses a coconut scraper, adapted with a lid and a safety mechanism. The safety mechanism may be configured to actuate (thus, power) the electric motor of the coconut scraper only upon positioning the lid on a bowl of the coconut scraper, thereby covering the tool assembly. In other words, the safety mechanism may be configured to actuate the electric motor, to perform scraping operation only upon enclosing the bowl by the lid.

The coconut scraper of the present disclosure may broadly include a base configured to accommodate a motor and a bowl positioned on the base. The bowl defines a scraping region and may be configured to receive scrapped coconut flesh, during operation of the coconut scraper. Further, the coconut scraper may include a tool assembly. The tool assembly may be coupled to the motor and may extend into the bowl. Furthermore, the coconut scraper may include a lid, which may be receivable by the bowl, and operable between an open condition and a closed condition, relative to the bowl. The lid may include a flexible enclosure, which may be defined with a contour to receive and support a coconut shell. The lid may further include a flange portion, which may extend along a periphery of the contour and a retaining element coupled to the flange portion. Additionally, the coconut scraper may include an activation unit, which may be positioned within a bracket extending from an outer surface of the bowl. The activation unit may be communicatively coupled to the motor. The activation unit may be configured to activate the motor only when the

lid is in the closed condition to power the motor of the coconut scraper, for performing scraping operation.

In an operational embodiment, i.e. to scrape the flesh of the coconut shell, the coconut shell may be placed within the flexible enclosure (thus, the contour defined in the flexible enclosure). The flexible enclosure (thus, the lid) with the coconut shell positioned therein, may be operable to the closed condition, such that the lid encloses the bowl and the coconut shell abuts the tool assembly (i.e. a scraping tool of the tool assembly). In an embodiment, in the closed condition of the lid, the retaining element of the lid may contact the activation unit, thus activating the activation unit, resulting in closing of an electric circuit for powering the motor. Upon powering the motor, the lid (i.e. the lid in the closed condition) may be moved in desired direction i.e. 360 degrees within the bowl, and the flexible enclosure may be operable to change orientation of the coconut shell in relation to the scraper blade, facilitating in scraping various contours of the coconut shell. Thus, the configuration of the coconut scraper of the present disclosure ensures safety of the user, since the lid is provided to support the coconut shell, enclose the bowl during scraping operation and power the motor operated to the closed condition. That is, the motor is powered only when the bowl is enclosed by the lid.

In the following detailed description, embodiments of the disclosure are explained with reference to accompanying figures that form a part hereof, and which are shown by way of illustration and specific embodiments in which the disclosure may be practiced. These embodiments are described in sufficient detail to enable those skilled in the art to practice the disclosure, and it is to be understood that other embodiments may be utilized and that changes may be made without departing from the scope of the present disclosure. The following description is, therefore, not to be taken in a limiting sense.

Figures. 1 and 2 illustrates an exploded view and a sectional view of a coconut scraper (100), which is adapted with a safety mechanism, in accordance with some embodiments of the present disclosure.

As seen in **Figures. 1 and 2** the coconut scraper (100) may include a base (101), which may be configured to accommodate a drive unit such as a motor (106), powered by electricity along with

other electronic and mechanical components. Further, the coconut scraper (100) includes a bowl (102), which may be positioned and supported on the base (101). The bowl (102) may define a scraping area and may also be configured to receive and store scrapped material during operation of the coconut scraper (100). As apparent from **Figures. 1 and 2**, the coconut scraper (100) may include a tool assembly (103), which may extend from the base (101) and receivable by the bowl (102). In an embodiment, the tool assembly (103) may include a scraper blade (104) and a gear box (105), which may be detachably connected to the scraper blade (104). Further, the gear box (105) may be coupled to an output shaft [not shown] of the motor (106), such that rotation of the motor (106) results in rotation of the scraper blade (104) at required speeds to perform scraping operation. In an embodiment, the scraper blade (104) may be positioned within the bowl (102), and the gear box (105) may be positioned in an intermediate section between the bowl (102) and the base (101). The scraper blade (104) may include a plurality of teeth defined on outer periphery and are exposed to outside for contacting the material [i.e. coconut shell (109)] to be scrapped.

Further, referring to **Figures. 1 and 2**, the coconut scraper (100) may include a lid (108), which may be receivable by the bowl (102). The lid (108) may be operable between an open condition and a closed condition relative to the bowl (102). In an embodiment, the open condition may correspond to the lid (108) being away from the bowl (102) and the closed condition may correspond to the lid (108) being positioned on the bowl (102) i.e. enclosing the bowl (102). As apparent from **Figure. 3**, the lid (108) may include a flexible enclosure (110). The flexible enclosure (110) may be defined with a contour, which may be configured to receive and support the coconut shell (109) of different shapes and sizes. In other words, the flexible enclosure (110) may flex or adjust according to shapes and sizes of the coconut shell (109) to receive and support the coconut shell (109). Further, the flexible enclosure (110) may include a flange portion (111), which may extend along a periphery of the contour defined in the flexible enclosure (110). In an embodiment, the flange portion (111) may extend integrally from the flexible enclosure (110), defining a U-shaped depression adjacent to the periphery of the contour. This configuration may facilitate in movement (thus, flexing) of the flexible enclosure (110) in different directions during contact various portion of the coconut shell, during the scraping operation. As an example, the flexible enclosure (110) may be made of polymeric material such as but not limiting to silicone, which may facilitate in receiving and supporting coconut shells of different shapes and sizes, and

further regain its original shape upon, removal of the coconut shell (109). The lid (108) may further include a retaining element (112), which may be configured to support the flexible enclosure (110) and facilitate handling of the lid (108). As seen in **Figure. 3**, the retaining element (112) may include a first support member (113) and a second support member (114). The first support member (113) may be configured to abut a bottom surface of the flange portion (111) and the second support member (114) may be configured to abut a top surface of the flange portion (111), such that the flange portion (111) may be sandwiched between the first support member (113) and the second support member (114). Further, the first support member (113) and the second support member (114) may be connected to each other through fastening elements, adhesives and the like, such that the flange portion (111) sandwiched therein, may be rigidly held between the first support member (113) and the second support member (114). In an embodiment, the retaining element (112) may be made of rigid material such as plastic, metal, fiber plastic and the like.

In an embodiment, the first support member (113) and the second support member (114) may be defined with a profile corresponding to the profile of the bowl (102), such that in the closed condition of the lid (108), the lid (108) may fit within the bowl (102).

Referring again to **Figures. 1 and 2**, the coconut scraper (100) may include an activation unit (107). In an embodiment, the activation unit (107) may be positioned within a bracket defined on an outer surface of the bowl (102), such that a portion of the activation unit (107) may flush with an inner surface of the bowl (102). The activation unit (107) may be communicatively coupled to the motor (106). In an exemplary embodiment, the activation unit (107) may be a micro switch and the same cannot be construed as a limitation, since in some embodiments the activation unit (107) may be sensors such as but not limiting to contact sensors, non-contact sensors and the like. As an example, the contact sensors may be one of but not limiting to pneumatic proximity sensor, optical proximity sensor and the like. The non-contact sensor may be but not limiting to Hall effect sensor and the like. Further, the activation unit (107) may be configured to activate, when the lid (108) is operated to the closed condition. That is, in the closed condition of the lid (108), the first support member (113) may contact the activation unit (107), for activating the activation unit (107). In an embodiment, activating the activation unit (107) may power the motor (106), for rotating the tool assembly (103) [thus, the scraper blade (104) rotates] at required speed.

In an operational embodiment, i.e. to scrape the flesh of the coconut shell (109), as seen in **Figure. 4**, the coconut shell (109) may be positioned within the lid (108). That is, the coconut shell (109) may be positioned within the contour defined in the flexible enclosure (110) of the lid (108). At this instance, the lid (108) may be in the open condition, and the electric circuit may be open [as seen in **Figure. 6a**]. Upon, positioning the coconut shell (109) within the lid (108) (thus, the contour), the lid (108) may be operable from the open condition to the closed condition [as seen in **Figure. 5**]. In an embodiment, in the closed condition of the lid (108), the lid (108) may be receivable within the bowl (102) and the retaining element (112) (i.e. the first support member (113) of the retaining element (112)), may contact the inner periphery of the bowl (102). This contact of the retaining element (112) of the lid (108) with the inner periphery of the bowl (102) results in contacting the activation unit (107), thus activating the activation unit (107). In an embodiment, activation of the activation unit (107) may result in forming a closed electric circuit (as seen in **Figure. 6b**), thus powering the motor (106). Powering the motor (106), results in rotation of the scraper blade (104) to scrape the flesh from the coconut shell (109), where the scraped flesh may be received and stored in bowl (102).

During, the scraping operation, the user may support the coconut shell (109) over the scraper blade (104) by holding the contour defined in the flexible enclosure (110) of the lid (108). In an embodiment, during scraping operation, the contour may be moved in required directions with respect to a central axis A-A of the scraper blade (104), and the lid (108) may be rotated in required direction i.e. 360 degrees, relative to the bowl (102), in order to contact different contours of the coconut shell (109) with the scraper blade (104), such that various contours of the coconut shell (109) are effectively scraped. Further, upon completion of scraping of flesh from the coconut shell (109), the user may operate the lid (108) from the closed condition to the open condition (as seen in **Figure. 4**), to remove the coconut shell (109). In the open condition, the lid (108) (thus, the retaining element (112)) may move away from the activation unit (107), thus deactivating the activation unit (107). In a deactivation state of the activation unit (107), the electric circuit may remain open (as seen in **Figure. 6a**), thus interrupting electric supply to the motor (106). Thus, the configuration of the coconut scraper (100) ensures safety of the user, since the motor (106) is not powered/activated unless the lid (108) is positioned in a closed condition, within the bowl (102).

In an embodiment, an outer surface of the contour defined in the flexible enclosure (110) may be defined with a texture or a pattern, to facilitate gripping of the coconut shell (109) during operation of the lid (108) between the open condition and the closed condition and during performing scraping operation.

In an embodiment, the flexible enclosure (110) may be transparent to facilitate visibility to the user to determine the amount of flesh scrapped from the coconut shell (109).

In an embodiment, the lid (108) may be hinged to the bowl (102) and may be configured to be operable between the closed condition and the open condition.

In an embodiment, one or more magnets may be positioned in the lid (108) and corresponding reed switches may be positioned in the bowl (102) or base (101) of the coconut scraper (100). Upon, operating the lid (108) to the closed condition, the reed switches may be activated by the magnets positioned in the lid (108).

In an embodiment, the activation unit (107) may be positioned in the base (101) unit. That is, brackets may be defined and extend from the base (101) to accommodate the activation unit (107). The activation unit (107) may be configured to activate upon positioning the lid (108) in the closed condition.

In an embodiment, two activation units positioned in the brackets defined on the outer surface of the bowl (102) are for the purpose of illustration only and the same cannot be construed as a limitation since, the coconut scraper (100) may include one activation unit (107) or a plurality of activation units without deviating from the scope of the present disclosure.

In an illustrative embodiment, a vertical configuration of the coconut scraper (100) adapted with the safety mechanism is illustrated, and the same cannot be construed as a limitation since the safety mechanism of the present disclosure may be adapted in the coconut scraper (100) having horizontal configuration without substantive modification.

In an embodiment, the coconut scraper (100) may include a brake assembly associated with the tool assembly (103). The brake assembly may be configured to reduce rotational speed of the tool

assembly (103) (thus, the scraper blade (104)) instantly, upon operating the lid (108) to the open condition i.e. removing the lid (108) from the bowl (102).

In an embodiment, the activation unit (107) may be communicatively coupled to the motor through a motor controller, which may trigger corresponding to activation of the activation unit (107) for powering the motor (106).

In an embodiment, the safety mechanism adapted in the coconut scraper (100) includes reduced number of components, thereby making the coconut scraper (100) simple and economical.

Equivalents:

With respect to the use of substantially any plural and/or singular terms herein, those having skill in the art can translate from the plural to the singular and/or from the singular to the plural as is appropriate to the context and/or application. The various singular/plural permutations may be expressly set forth herein for sake of clarity.

It will be understood by those within the art that, in general, terms used herein, and especially in the appended claims (e.g., bodies of the appended claims) are generally intended as “open” terms (e.g., the term “including” should be interpreted as “including but not limited to,” the term “having” should be interpreted as “having at least,” the term “includes” should be interpreted as “includes but is not limited to,” etc.). It will be further understood by those within the art that if a specific number of an introduced claim recitation is intended, such an intent will be explicitly recited in the claim, and in the absence of such recitation no such intent is present. For example, as an aid to understanding, the following appended claims may contain usage of the introductory phrases “at least one” and “one or more” to introduce claim recitations. However, the use of such phrases should not be construed to imply that the introduction of a claim recitation by the indefinite articles “a” or “an” limits any particular claim containing such introduced claim recitation to inventions containing only one such recitation, even when the same claim includes the introductory phrases “one or more” or “at least one” and indefinite articles such as “a” or “an” (e.g., “a” and/or “an” should typically be interpreted to mean “at least one” or “one or more”); the same holds true for the use of definite articles used to introduce claim recitations. In addition, even if a specific number of an introduced claim recitation *is* explicitly recited, those skilled in the art will recognize

that such recitation should typically be interpreted to mean *at least* the recited number (e.g., the bare recitation of “two recitations,” without other modifiers, typically means *at least* two recitations, or *two or more* recitations). Furthermore, in those instances where a convention analogous to “at least one of A, B, and C, etc.” is used, in general such a construction is intended in the sense one having skill in the art would understand the convention (e.g., “a system having at least one of A, B, and C” would include but not be limited to systems that have A alone, B alone, C alone, A and B together, A and C together, B and C together, and/or A, B, and C together, etc.). In those instances, where a convention analogous to “at least one of A, B, or C, etc.” is used, in general such a construction is intended in the sense one having skill in the art would understand the convention (e.g., “a system having at least one of A, B, or C” would include but not be limited to systems that have A alone, B alone, C alone, A and B together, A and C together, B and C together, and/or A, B, and C together, etc.). It will be further understood by those within the art that virtually any disjunctive word and/or phrase presenting two or more alternative terms, whether in the description, claims, or drawings, should be understood to contemplate the possibilities of including one of the terms, either of the terms, or both terms. For example, the phrase “A or B” will be understood to include the possibilities of “A” or “B” or “A and B.” While various aspects and embodiments have been disclosed herein, other aspects and embodiments will be apparent to those skilled in the art. The various aspects and embodiments disclosed herein are for purposes of illustration and are not intended to be limiting, with the true scope and spirit being indicated by the following claims.

Referral Numerals:

Reference Number	Description
100	Coconut scraper
101	Base
102	Bowl
103	Tool assembly
104	Scraper blade
105	Gear box
106	Motor
107	Activation unit
108	Lid
109	Coconut shell
110	Flexible enclosure
111	Flange portion
112	Retaining element
113	First support member
114	Second support member

Claims:

1. A lid (108) for a coconut scraper (100), the lid (108) comprising:

a flexible enclosure (110) defined with a contour to receive and support a coconut shell (109), and a flange portion (111) extending along a periphery of the contour; and

a retaining element (112), coupled to the flange portion (111) of the flexible enclosure (110), wherein the retaining element (112) is receivable by a bowl (102) of the coconut scraper (100) in a closed condition of the lid (108);

wherein, the retaining element (112) is configured to activate an activation unit (107) in the closed condition of the lid (108), for powering a motor (106) of the coconut scraper (100).
2. The lid (108) as claimed in claim 1, wherein the flexible enclosure (110) is made of a polymeric material.
3. The lid (108) as claimed in claim 1, wherein the lid (108) is configured to be movable relative to the bowl (102) in the closed condition, to facilitate scraping various contours of the coconut shell (109).
4. The lid (108) as claimed in claim 1, wherein the retaining element (112) comprises a first support member (113) and a second support member (114), wherein the first support member (113) and the second support member (114) are configured to abut the flange portion (111) for supporting the flange portion (111).
5. The lid (108) as claimed in claim 4, wherein the first support member (113) is defined with a profile corresponding to the profile of the bowl (102) of the coconut scraper (100), such that the first support member (113) is receivable by the bowl (102) and configured to activate the activation unit (107).
6. A safety mechanism for a coconut scraper (100), comprising:

a lid (108) receivable by a bowl (102) of the coconut scraper (100), wherein the lid (108) is operable between an open condition and a closed condition; and

an activation unit (107) communicatively coupled to a motor (106) of the coconut scraper (100);

wherein, the lid (108) is configured to activate the activation unit (107) in the closed condition, for powering the motor (106) of the coconut scraper (100).

7. The safety mechanism as claimed in claim 6, wherein the lid (108) comprises:
 - a flexible enclosure (110) defined with a contour to receive and support a coconut shell (109), and a flange portion (111) extending along a periphery of the contour; and
 - a retaining element (112), coupled to the flange portion (111) of the flexible enclosure (110), wherein the retaining element (112) is receivable by a bowl (102) of the coconut scraper (100) in the closed condition of the lid (108).
8. The safety mechanism as claimed in claim 6, the retaining element (112) comprises a first support member (113) and a second support member (114), wherein the first support member (113) and the second support member (114) are configured to abut the flange portion (111) for supporting the flange portion (111).
9. The safety mechanism as claimed in claim 8, wherein the first support member (113) is defined with a profile corresponding to the profile of the bowl (102) of the coconut scraper (100), such that the first support member (113) is receivable by the bowl (102) and configured to activate the activation unit (107).
10. The safety mechanism as claimed in claim 6, wherein the lid (108) is configured to be movable in the closed condition, to facilitate scraping various contours of a coconut shell (109).
11. The safety mechanism as claimed in claim 6, wherein the flexible enclosure (110) is made of a polymeric material.

12. The safety mechanism as claimed in claim 6, wherein the activation unit (107) is at least one of a micro switch, a contact sensor, and a non-contact sensor.
13. A coconut scraper (100), comprising:
- a base (101), accommodating a motor (106);
 - a bowl (102), positioned on the base (101), wherein the bowl (102) defines a scraping area;
 - a tool assembly (103), coupled to the motor (106) and extending into the bowl (102);
 - a lid (108) receivable by the bowl (102), wherein the lid (108) is operable between an open condition and a closed condition relative to the bowl (102); and
 - an activation unit (107) communicatively coupled to the motor (106);
- wherein, the lid (108) is configured to activate the activation unit (107) in the closed condition, for powering the motor (106) of the coconut scraper (100).
14. The coconut scraper (100) as claimed in claim 13, wherein the activation unit (107) is positioned within a bracket extending into the bowl (102).
15. The coconut scraper (100) as claimed in claim 13, wherein the lid (108) comprises:
- a flexible enclosure (110) defined with a contour to receive and support a coconut shell (109), and a flange portion (111) extending along a periphery of the contour; and
 - a retaining element (112), coupled to the flange portion (111) of the flexible enclosure (110), wherein the retaining element (112) is receivable by the bowl (102) of the coconut scraper (100) in the closed condition of the lid (108).
16. The coconut scraper (100) as claimed in claim 15, the retaining element (112) comprises a first support member (113) and a second support member (114), wherein the first support member (113) and the second support member (114) are configured to abut the flange portion (111) for supporting the flange portion (111), between the first support member (113) and the second support member (114).

17. The coconut scraper (100) as claimed in claim 16, wherein the first support member (113) is defined with a profile corresponding to the profile of the bowl (102) of the coconut scraper (100), such that the first support member (113) is receivable by the bowl (102) and configured to activate the activation unit (107).
18. The coconut scraper (100) as claimed in claim 13, wherein the lid (108) is configured to be movable in the closed condition, to facilitate scraping various contours of the coconut shell (109).
19. The coconut scraper (100) as claimed in claim 15, wherein the flexible enclosure (110) is made of a polymeric material.
20. The coconut scraper (100) as claimed in claim 15, wherein the activation unit (107) is at least one of a micro switch, a contact sensor, and a non-contact sensor.