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(54) **ERGONOMICALLY DESIGNED MULTI-HANDLED TOOL**

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B25G 1/00 (2006.01)
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See application file for complete search history.

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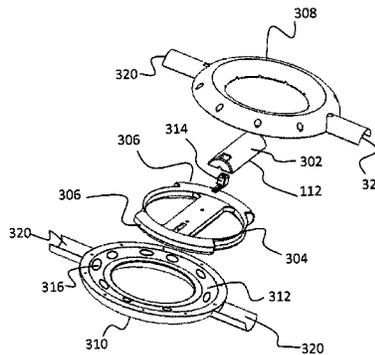
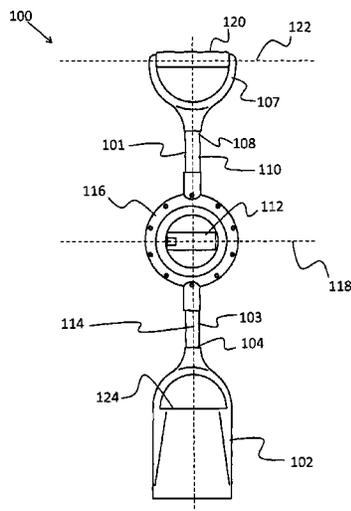
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(57) **ABSTRACT**

Described is a multi-handled tool that is ergonomically designed to maximize the efficiency of the tool by the use of a handle, optionally rotating, affixed to the shaft of the tool. The rotating handle may be rotated and locked into any desired position so the user can adjust the tool to create maximum efficiency. In addition, a footstep is optionally provided above the tool that allows for a greater digging force. A combination of the first, top handle with the ergonomically spaced handle placement that is completely adjustable combined with the footstep above the head of the tool provides for a tool that is much more efficient than the standard tools used today.

33 Claims, 9 Drawing Sheets



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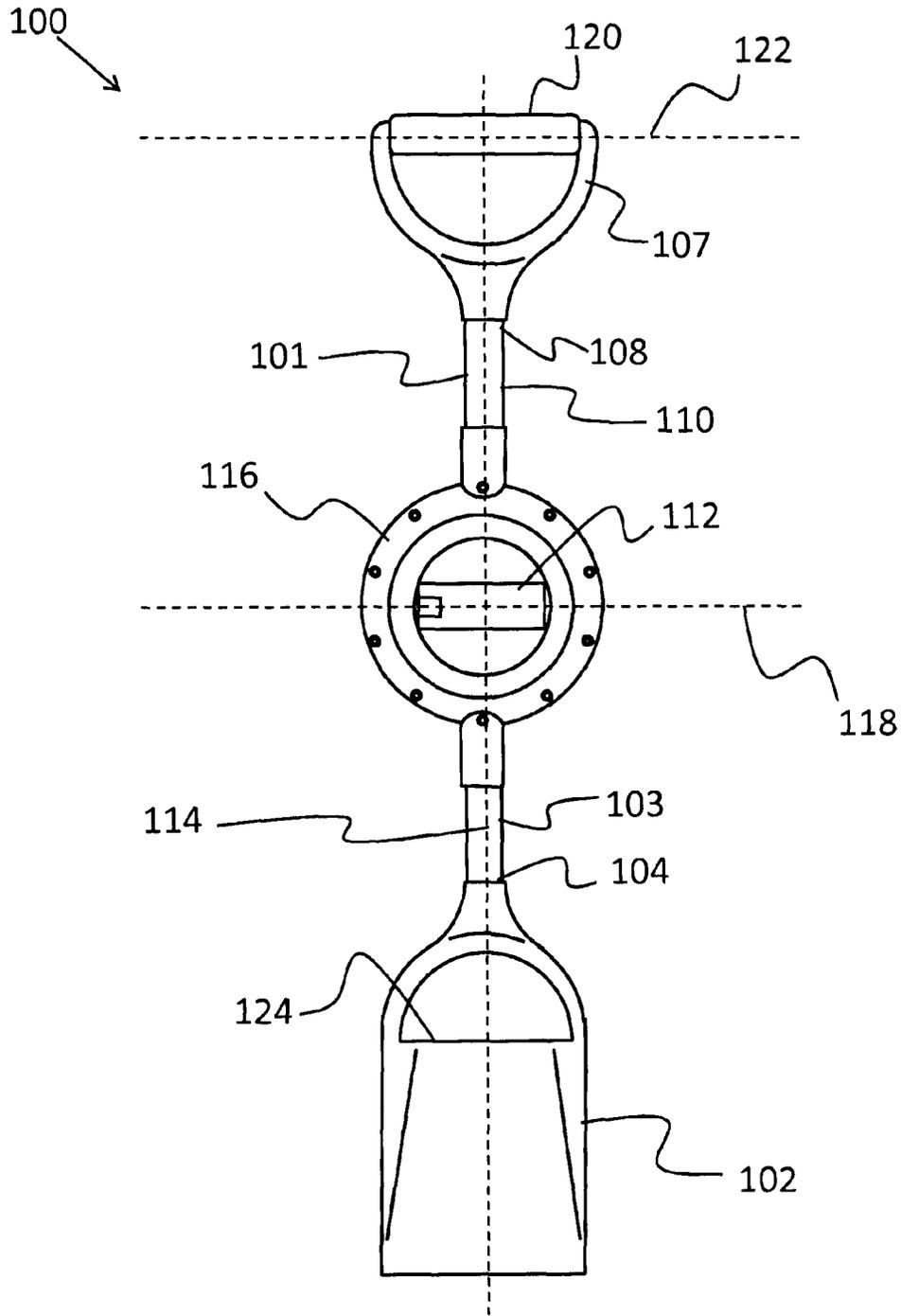


FIG. 1A

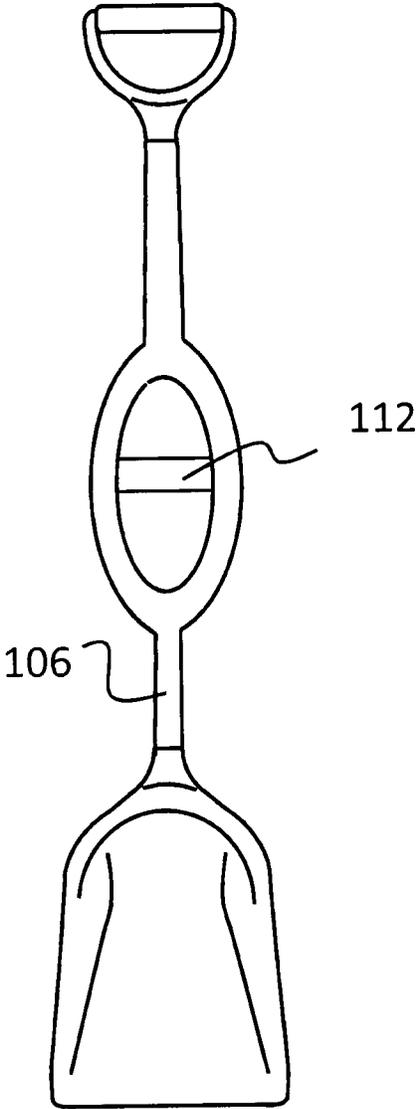


FIG. 1B

100

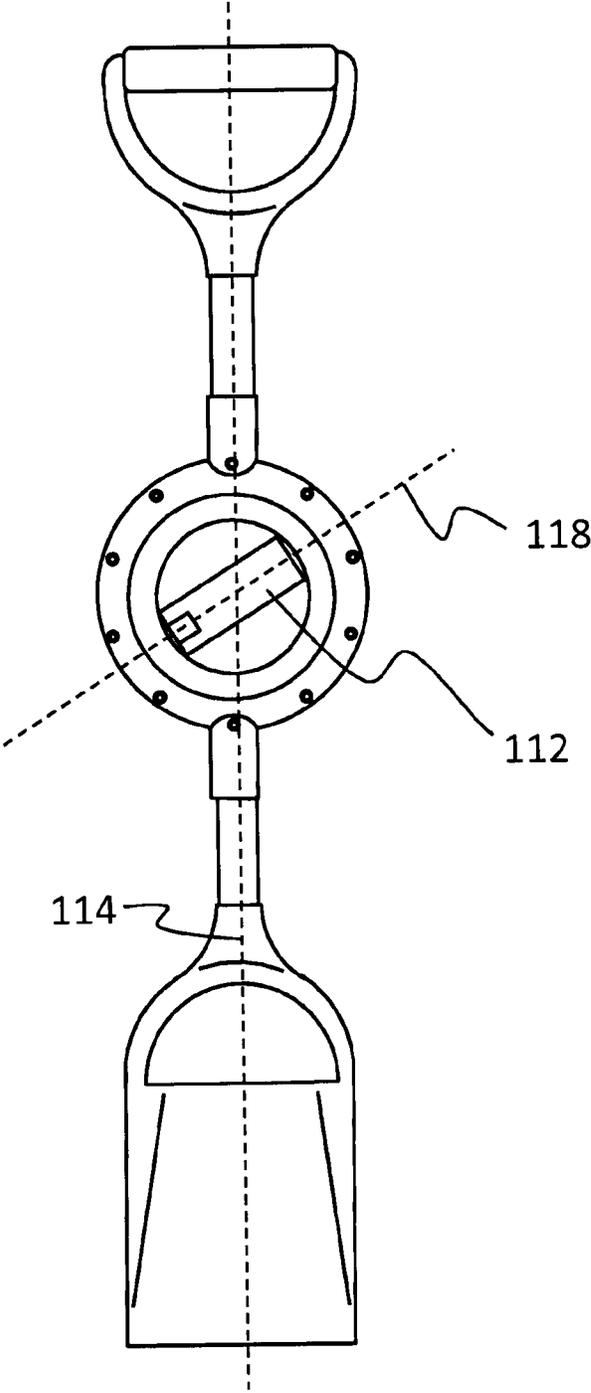


FIG. 2

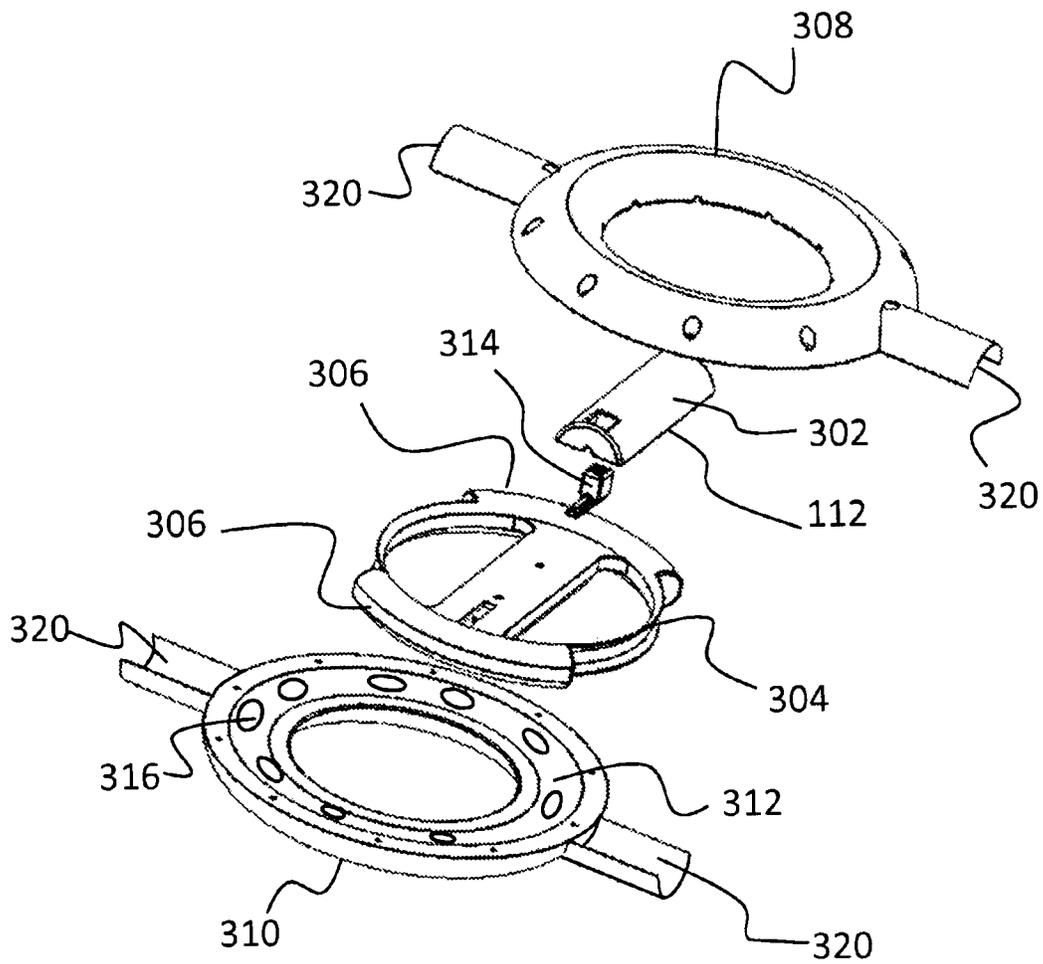


FIG. 3

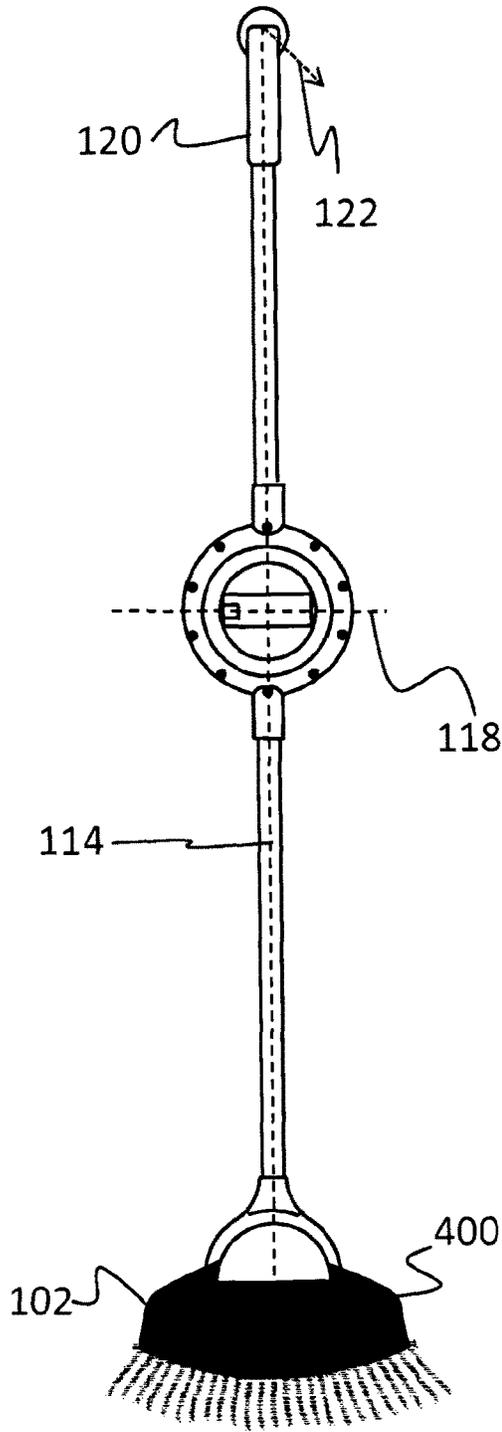


FIG. 4

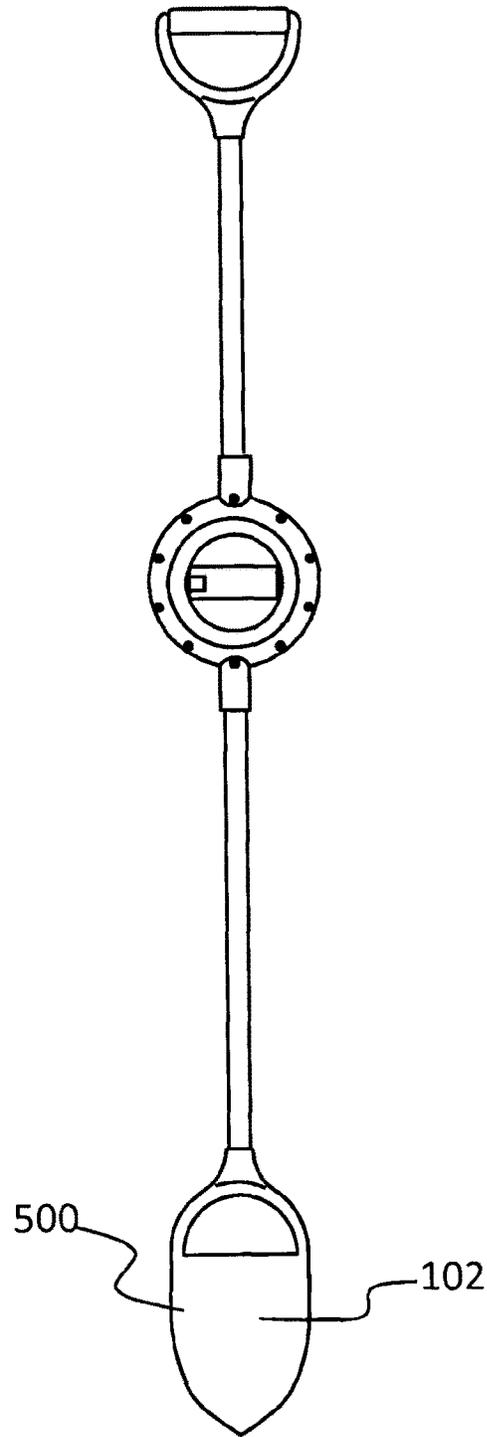
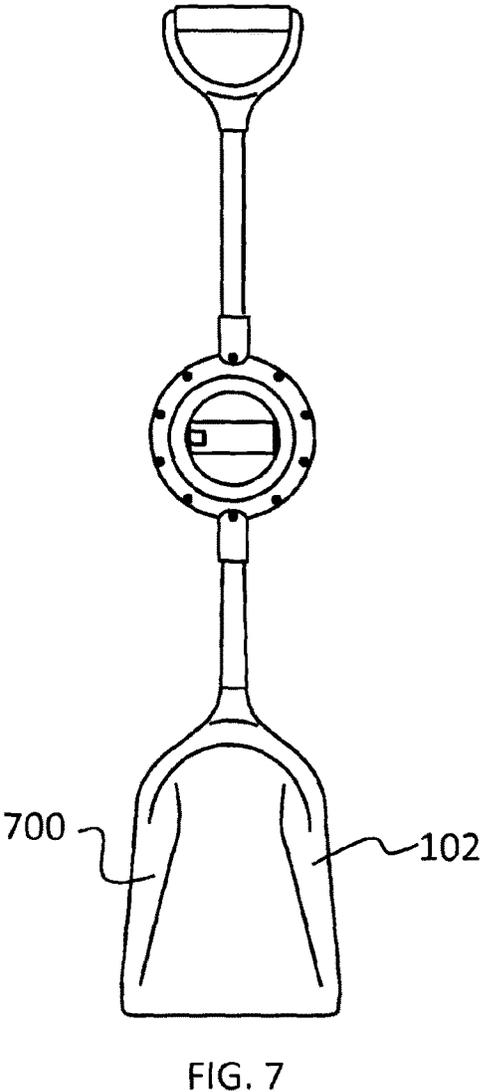
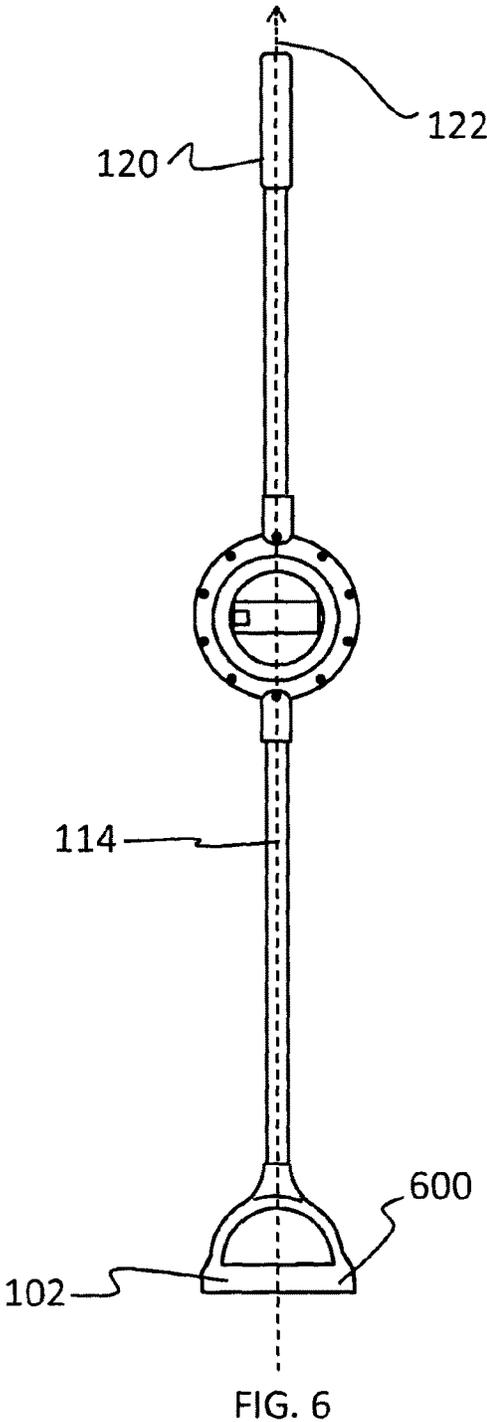


FIG. 5



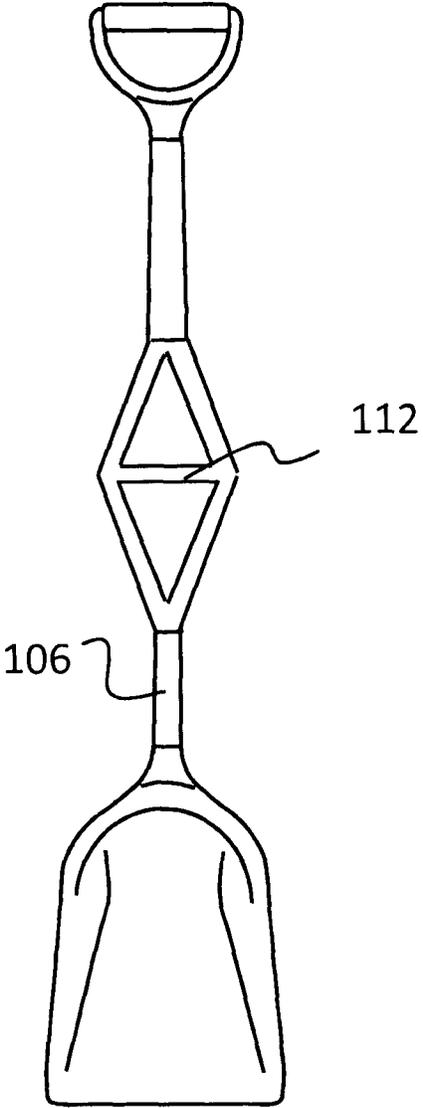


FIG. 8

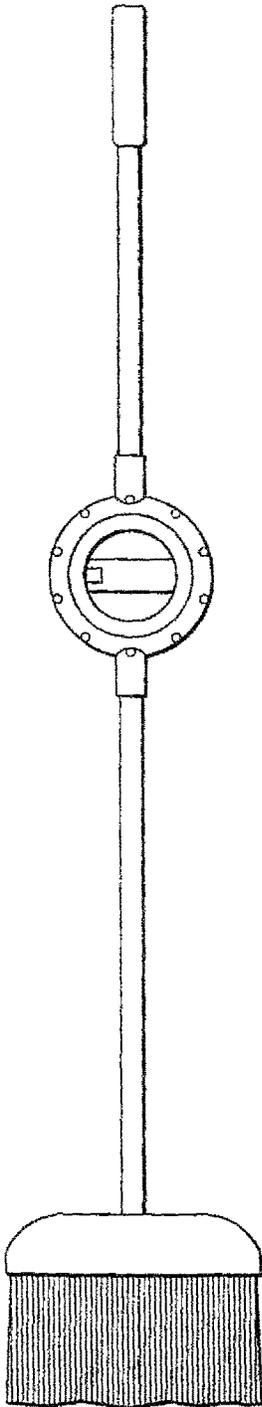


FIG. 9

NEW

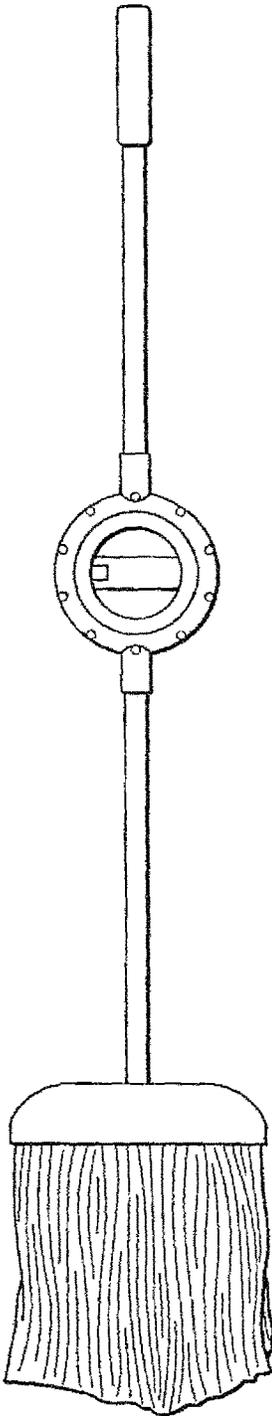


FIG. 10

NEW

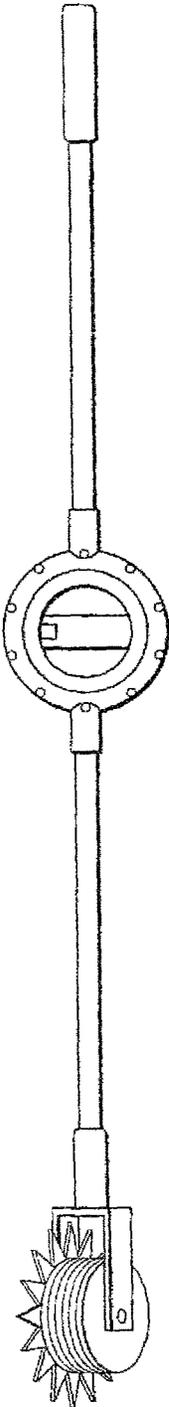


FIG. 11
NEW

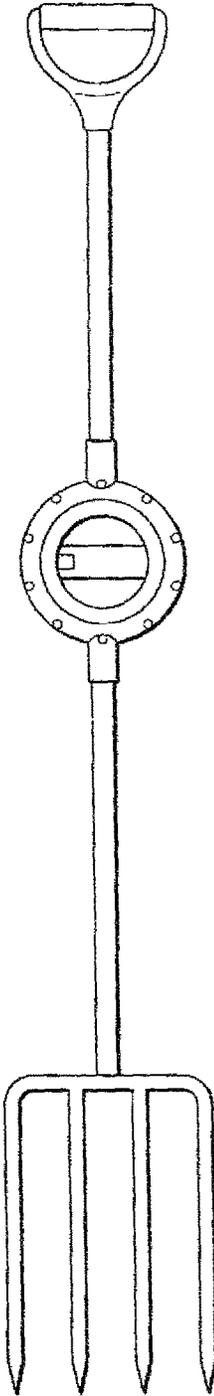


FIG. 12
NEW

**ERGONOMICALLY DESIGNED
MULTI-HANDLED TOOL**

Matter enclosed in heavy brackets [] appears in the original patent but forms no part of this reissue specification; matter printed in italics indicates the additions made by reissue; a claim printed with strikethrough indicates that the claim was canceled, disclaimed, or held invalid by a prior post-patent action or proceeding.

CROSS REFERENCE TO RELATED
APPLICATION

This application is a continuation of U.S. Nonprovisional patent application Ser. No. 13/754,016, filed on Jan. 30, 2013 and entitled "ERGONOMICALLY DESIGNED MULTI-HANDLED TOOL", which claims priority to U.S. Provisional Patent Application No. 61/632,761, filed on Jan. 30, 2012 and entitled, "HANDLE-IT. THE TWO HANDLED SHOVEL.", and U.S. Provisional Patent Application No. 61/687,214, filed on Apr. 19, 2012 and entitled, "HANDLE-IT. THE ERGONOMICALLY DESIGNED DOUBLE-HANDLED TOOL", the disclosures of which are hereby incorporated entirely herein by reference.

BACKGROUND

1. Technical Field

The present invention relates to a multi-handed tool for use with an implement attached on one end thereof and, more particularly, to a tool, such as a shovel, with a mid-positioned handle with the optional inclusion of a foot step above the tool end.

2. State of the Art

The home, garden, and construction markets need ergonomically designed tools that maximize the strength of the user. Current tools do not have a handle on the shaft that allows maximization of the strength of the user. In addition, any prior attempts to make two-handed tools have not successfully created an efficient design.

A traditional tool, such as but not limited to a shovel, uses a straight shaft with one handle at the end. The user is forced to use the shaft as a second handle, which results in loss of leverage. This is especially true when the user is digging a hole or moving a material to one side. Since the shaft is straight, there is a loss of leverage when moving the material to one side or the other.

Moreover, current tools, not limited to shovels, have a footstep that is used to exert greater digging force. However, the footstep is located off-center and the users lose force by having to place their foot on the side of the shovelhead while digging. As such, not only can this result in an undesirably shaped hole but there is also potentially wasted energy.

Thus, a continuing need exists for an improved design for home, garden, and construction tools with a shaft handle to maximize leverage and strength application of the user while using the shovel.

SUMMARY

The present invention relates to a multi-handed tool that is made up of an elongated shaft with a user end and a tool end. A tool implement is attached with the tool end. A first handle is attached with the user end. Further, a second handle is attached with the elongated shaft between the user end and the tool end.

In another aspect, the elongated shaft has a long axis and the first handle is attached with the elongated shaft such that it intersects the long axis of the elongated shaft.

In yet another aspect, a footstep is positioned between the tool implement and the tool end of the elongated shaft, the footstep intersecting the long axis of the elongated shaft.

In another aspect, the elongated shaft has a long axis and the second handle is attached to the elongated shaft in a stationary position between the user end and the tool end.

In another aspect, the elongated shaft and the first and second handles are formed of one piece of material.

In yet another aspect, the elongated shaft and first and second handles are separate and distinct components that are attached with one another.

In yet another aspect, a rotating mechanism is included. In this aspect, the second handle is affixed with the rotating mechanism such that the rotating mechanism is adapted to allow for rotation of the second handle.

The rotating mechanism includes a circular frame with the second handle attached thereto; a first member; and a second member. The circular frame is positioned between the first and second members to allow for rotation of the circular frame with respect to each of the first and second members. The circular frame includes sliding portions and each of the first and second members include a recess that is formed to accommodate the sliding portions, thereby allowing the circular frame to rotate within the first and second members.

In another aspect, a locking lever is attached with the circular frame. The locking lever is adapted to engage with at least one of the first and second members to lock the circular frame with respect to the first and second members.

Finally, the present invention also comprises a method for making and using the tool described herein.

BRIEF DESCRIPTION OF THE DRAWINGS

The objects, features and advantages of the present invention will be apparent from the following detailed descriptions of the various aspects of the invention in conjunction with reference to the following drawings, where:

FIG. 1A is an illustration of a multi-handed tool according to the principles of the present invention, depicting the tool as having both an end first handle and a mid-positioned, second handle;

FIG. 1B is an illustration of a multi-handed tool according to the principles of the present invention, depicting the shaft as being formed as a single piece with the second handle attached thereto;

FIG. 2 is an illustration of a multi-handed tool according to the principles of the present invention, depicting the second handle as having been rotated;

FIG. 3 is an exploded-view illustration of the second handle, illustrating an aspect in which the second handle is rotatable;

FIG. 4 is an illustration of a multi-handed tool according to the principles of the present invention, depicting alternative aspects of a tool implement, in which the tool implement is a rake;

FIG. 5 is an illustration of a multi-handed tool according to the principles of the present invention, depicting alternative aspects of a tool implement, in which the tool implement is a pointed spade shovel;

FIG. 6 is an illustration of a multi-handed tool according to the principles of the present invention, depicting alternative aspects of a tool implement, in which the tool implement is a blade;

FIG. 7 is an illustration of a multi-handled tool according to the principles of the present invention, depicting alternative aspects of a tool implement, in which the tool implement is a snow shovel; and

FIG. 8 is another illustration of a multi-handled tool according to the principles of the present invention, depicting the second handle being formed as a single piece attached to the shaft at both ends of the second handle.

FIG. 9 is another illustration of a multi-handled tool according to principles of the present invention, depicting alternative aspects of a tool implement, in which the tool implement is a broom;

FIG. 10 is another illustration of a multi-handled tool according to principles of the present invention, depicting alternative aspects of a tool implement, in which the tool implement is a mop;

FIG. 11 is another illustration of a multi-handled tool according to principles of the present invention, depicting alternative aspects of a tool implement, in which the tool implement is a grass edger; and

FIG. 12 is another illustration of a multi-handled tool according to principles of the present invention, depicting alternative aspects of a tool implement, in which the tool implement is a pitchfork.

DETAILED DESCRIPTION

The following description is presented to enable one of ordinary skill in the art to make and use the invention and to incorporate it in the context of particular applications. Various modifications, as well as a variety of uses in different applications will be readily apparent to those skilled in the art, and the general principles defined herein may be applied to a wide range of embodiments. Thus, the present invention is not intended to be limited to the embodiments presented, but is to be accorded the widest scope consistent with the principles and novel features disclosed herein.

In the following detailed description, numerous specific details are set forth in order to provide a more thorough understanding of the present invention. However, it will be apparent to one skilled in the art that the present invention may be practiced without necessarily being limited to these specific details. In other instances, well-known structures and devices are shown in block diagram form, rather than in detail, in order to avoid obscuring the present invention.

The reader's attention is directed to all papers and documents which are filed concurrently with this specification and which are open to public inspection with this specification, and the contents of all such papers and documents are incorporated herein by reference. All the features disclosed in this specification, (including any accompanying claims, abstract, and drawings) may be replaced by alternative features serving the same, equivalent or similar purpose, unless expressly stated otherwise. Thus, unless expressly stated otherwise, each feature disclosed is only one example of a generic series of equivalent or similar features.

Furthermore, any element in a claim that does not explicitly state "means for" performing a specified function, or "step for" performing a specific function, is not to be interpreted as a "means" or "step" clause as specified in 35 U.S.C. Section 112, Paragraph 6. In particular, the use of "step of" or "act of" in the claims herein is not intended to invoke the provisions of 35 U.S.C. 112, Paragraph 6.

Please note, if used, the labels left, right, front, back, top, bottom, forward, reverse, clockwise and counter clockwise have been used for convenience purposes only and are not intended to imply any particular fixed direction. Instead,

they are used to reflect relative locations and/or directions between various portions of an object.

Specific Details

As shown in FIG. 1A, the present invention relates to a multi-handled tool **100** for use with a tool implement **102**. The tool **100** includes a first handle **107** at a handle end **108**, with the tool implement **102** attached at a tool end **104**. Connecting the first handle **107** with the tool implement **102** is a post or elongated shaft **110** (or any other suitable connecting mechanism, such as adjacent shafts, etc.). Importantly, positioned within (or otherwise attached with) the shaft **110** between the tool implement **102** and the first handle **107** is a second handle **112**. The elongated shaft **110** is formed of any suitably rigid material, non-limiting examples of which include metal, steel, fiberglass, plastic, or wood, or any combination thereof.

The second handle **112** is a mid-positioned handle that is formed or attached at any desirable location along the shaft **110**. Although the term "mid" is used, the second handle **112** is not necessarily at a middle point in the shaft **110** and, instead, can be formed or attached at any desirable location or position along the shaft **110**. As a non-limiting example, the second handle **112** can be formed (or attached) such that it is in line with the shaft and intersects a long-axis **114** that runs through the shaft **110**. The shaft **106** can include multiple components (e.g., first shaft part **101** and second shaft part **103**), with the second handle **112** separating those components.

As an alternative non-limiting example and as depicted in FIG. 1B, the shaft **106** can be formed such that it is a single piece that bends around the second handle **112** to accommodate the second handle **112**. The shaft **106** can be formed as single piece using any suitable technique, non-limiting examples of which include being molded plastic or fiberglass. In this aspect, the second handle **112** can be attached (e.g., bolted) within the shaft **106** or cast as a single piece with the shaft **106**.

Alternatively, the second handle **112** can be formed such that it is offset from the long axis **114**.

Referring again to FIG. 1A, it should be understood that the second handle **112** can be formed such that it is fixed at no particular angle and un-rotatable. For example, a casing **116** can be included in which the shaft **110** is attached at two ends of the casing **116**. The second handle **112** can be permanently affixed within the case **116** such that it is set at a desired angle. Although not limited thereto, the second handle **112** is depicted as having a handle axis **118** that is orthogonal to the long axis **114**.

In another aspect, the second handle **112** can be rotatable and operate as a rotating handle. In either aspect, the second handle **112** can be used in conjunction with the first handle **107**. The first handle **107** includes a grip portion **120** located at user end of the tool. Moreover, the grip portion **120** includes a grip axis **122**, with the grip portion **120** formed such that it is positioned at any suitable angle with respect to the long axis **114** and the handle axis **118**. As a non-limiting example, the grip portion **120** is formed such that the grip axis **122** is positioned perpendicular to the long axis **114**, yet parallel to the handle axis **118**. Alternatively and as depicted in FIG. 4, the grip portion **120** can be formed such that the grip axis **122** it is perpendicular to both of the handle axis **118** and the long axis **114**. In another aspect and as depicted in FIG. 6, the grip portion **120** is simply an extension of the shaft **106** such the grip axis **122** is in line with the long axis **114**.

The grip portion **120** is formed of any suitable material to provide for stability and comfort of use. As a non-limiting

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example, the grip portion **120** is formed of a metal frame that is wrapped with a rubber sleeve.

The multi-handled tool **100** maximizes the usage of the tool implement **102** and the efficiency of the user. By implementing a second handle **112** on the shaft **110** of the tool **100**, the user is able to use a greater amount of force with the tool implement **102**.

As another improvement over the prior art, the tool **100** optionally includes a footstep **124** that allows for a greater down force (e.g., digging force). The footstep **124** is formed at the tool end **104** and can be integrally formed with the tool implement **102** or separately formed with the tool implement **102** attached thereto. Importantly, the footstep **124** is formed such that it intersects the long axis **114** of the shaft **110**. When the user uses their foot to exert force, the multi-handled tool **100** becomes much more effective because the foot and leg strength is coupled with the body weight of the user to channel the tool implement **102** to a directed area. The user is able to use the entire force of their foot and leg as they push down on the center of the footstep **124** (which is directly in line with the long axis **114**). In a standard shovel, the user may lose force by having to place their foot off-center while digging, often resulting digging an undesirably shaped hole. The present invention alleviates this issue. The user is able to exert force directly on-center of the foot step **124** to utilize an increased force in the directed area.

As noted above, the second handle **112** can be formed such that it is rotatable. In other words and as shown in FIG. **2**, the second handle **112** can be rotated by a user and locked into any desired position so that the user can adjust the angle of the second handle **112**, thereby altering the angle of the handle axis **118** with respect to the long axis **114**. This allows the user to adjust the second handle **112** to create maximum efficiency for a variety of jobs. As a non-limiting example, if the user uses the multi-handled tool **100** to move a pile of dirt into a hole to the left, the user can rotate the handle **107** from the horizontal position slightly down to allow for motion when moving dirt. Thus, the rotating second handle **112** allows for customizable positioning of the second handle **112** while using the tool **100**.

In order to allow for rotation of the second handle **112**, the tool **100** includes a rotating mechanism that allows for selective rotation and fixation of the second handle **112**. It should be noted that although the second handle **112** appears to be affixed with a circular frame (i.e., the rotating mechanism), the invention is not intended to be limited thereto as it can be formed in any desired shape. For example, FIG. **1B** and FIG. **8** illustrate a shaft **106** that includes a non-circular central portion that bends around to accommodate the central handle **112**. As can be appreciated, there are numerous shapes and techniques by which the central handle **112** can be affixed with the shaft **106** as the present invention is not intended to be limited to any particular shape or technique.

FIG. **3** is an exploded view illustration of the second handle **112** and the corresponding rotating mechanism. As can be understood by one skilled in the art, the rotating mechanism is any suitable mechanism or device that allows for selective rotation and fixation of the second handle **112**. Thus, the aspect as illustrated in the figures and described herein is but one non-limiting example of a suitable rotating mechanism, as the invention is not intended to be limited thereto.

As shown, in this non-limiting aspect, the second handle **112** includes a second handle grip **302** that is affixed with a circular frame **304**. The circular frame **304** includes sliding portions **306** that are formed to allow for rotation within a

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sleeve. For example, the rotating mechanism includes a first member **308** and a second member **310**. Each of the first and second members **308** and **310** include a recess **312** that is formed to accommodate the sliding portions **306**. In this aspect, the first and second members **308** and **310** act as clamshells that can be attached with one another (via screws or any other technique) with the circular frame **304** positioned there-between. Thus, when the circular frame **304** is positioned between the first and second members **308** and **310**, the sliding portions **306** are allowed to rotate (e.g., 360 degrees) within the recess **312**, thereby allowing a user to rotate the second handle **112**.

As such, in operation, the rotating second handle **112** allows the user to rotate their hand to the most comfortable and efficient position. Thereafter, it may be desired to lock the second handle **112** in the desired position. In one aspect, the rotating mechanism includes a locking mechanism that allows the rotating handle **112** to be locked into place when the mechanism is activated. The locking mechanism may be unlocked and rotated to another angle to conform to the desire of the user.

The locking mechanism is any suitable mechanism or device that allows a user to selectively lock the rotating handle **112** into place. As a non-limiting example, the locking mechanism includes a locking lever **314** that is slidably attached with the circular frame **304** and that extends from the circular frame **304** to engage with at least one of the recesses **312**. The locking lever **314** can be spring-loaded such that it is biased toward engaging with the recesses **312**. Thus, when at rest, the locking lever **314** is forced toward the recesses **312** to prevent rotation of the circular frame **304**. In operation, a user would retract the locking lever **314** from the recess **312** to allow for rotation of the circular frame **304**.

As another non-limiting example, at least one of the recesses **312** can include a series of indentations **316** that are formed to accommodate a portion of the locking lever **314**. Thus, in this non-limiting example, the locking lever **314** is biased to engage and lock into one of the indentations **316**. A user could retract the locking lever **314** to allow for selective rotation of the circular frame **304** and, thereby, rotation of the second handle **112**.

Once the rotating handle **112** is placed at the desired angle, the locking lever **314** locks the interior circular frame **304** into place. When the user desires to rotate the rotating handle **112** to a different angle, the locking lever **314** is unlocked (e.g., retracted from the indentation **316**) and the circular frame **304** is free to rotate until the user decides to release the locking lever **314** and allow it to engage with another indentation **316**. As noted above and repeated herein for clarity, the specific mechanism that allow for rotation of the second handle **112** is provided as a non-limiting example according to the principles of the present invention as the invention is not intended to be limited thereto.

It should be understood that in all aspects, the second handle **112** is attached with the shaft **106** using any suitable mechanism or technique. As a non-limiting example, the second handle **112** can simply be bolted to the shaft **106** directly (as shown in FIG. **1B**) or via some sort of intermediate component. As a non-limiting example, the rotating mechanism shown in FIG. **3** operates to affix the second handle **112** to the shaft. In this non-limiting example and as can be appreciated and employed in other aspects, the first and second members **308** and **310** include shaft attachments **320** that operate to affix the second handle **112** to the shaft. In this aspect, the shaft parts (e.g., first shaft part **101** and second shaft part **103** as shown in FIG. **1A**) can be inserted

into and affixed with the shaft attachments 320 using any suitable attachment technique, non-limiting examples of which include being press fit and/or a bolt passing through the shaft attachments 320 and the shaft parts.

Referring again to FIG. 1A, the tool 100 includes a tool implement 102. The tool implement 102 is any desired tool that can be affixed with the tool end 104 of the shaft 110 (with any shovels, rakes, brooms (FIG. 9), mops (FIG. 10), grass edgers (FIG. 11), floor scrapers, pitchforks (FIG. 12) and any other construction or home and garden tool with a long axis shaft as additional, non-sketched non-limiting examples). As a non-limiting example and as illustrated in FIG. 1A, the tool implement 102 can be a shovel, such as a flat-head shovel. Alternatively and as illustrated in FIGS. 4 through 7, the tool implement 102 can be a rake 400, a pointed spade shovel 500, a blade 600, and a snow shovel 700, respectively. Thus, the present invention is not intended to be limited to any particular tool implement as it can be used with any head/tool combination.

In summary, the present invention is a tool 100 that provides for a combination of a first handle, an ergonomically spaced second handle 112 that is completely adjustable and customizable, rotatable or stationary, optionally combined with the foot step 124 above the head of the tool end 104 to provide a home, garden, and construction tool that is much more efficient than the current comparable tools on the market today.

What is claimed is:

1. A hand-held tool, comprising:

an elongated shaft defining a length between a first end and a second end, the length of the elongated shaft defining a first axis; [and]

the elongated shaft first end comprising a first handle;

a second handle functionally coupled to the elongated shaft, the second handle defining a length between opposing distal ends, the length of the second handle defining a second axis, the second handle being configured to pivot with respect to the first axis between a parallel position wherein the first and second axes are parallel with one another and a transverse position wherein the first and second axes are transverse to one another;

wherein the first axis intersects the second handle at an intersection between opposing distal ends of the second handle;

a tool implement coupled to the elongated shaft second end, wherein the tool implement is selected from a group consisting of: a shovel, a rake, a broom, a mop, a grass edger, a floor scraper, and a pitchfork; and

a locking lever configured to lock the second handle in one or more positions along a path extending from the parallel position to the transverse position, wherein the locking lever is movable between a first position and a second position, the locking lever configured to lock and prevent pivoting of the second handle when in the first position and unlock the second handle when in the second position.

2. The hand-held tool of claim 1, wherein the [handle is functionally coupled to the elongated shaft between the first and second ends of the shaft] *locking lever is configured to lock the second handle in multiple positions along the path extending from the parallel position to the transverse position.*

3. The hand-held tool of claim 1, wherein the first axis and the second axis intersect with one another.

4. The hand-held tool of claim 1, wherein the first axis and the second axis lie in a plane and the second handle pivots in the plane.

5. The hand-held tool of claim 1, wherein the second handle pivots with respect to the first axis [about the intersection].

[6. The hand-held tool of claim 1, further comprising a locking lever, the locking lever being operable to transition the handle between a free position and an engaged position, wherein in the free position the handle pivots with respect to the first axis and wherein in the engaged position the handle is locked with respect to the first axis.]

7. A hand-held tool, comprising:

an elongated shaft having a length defined between a first end and a second end, the length of the elongated shaft defining a first axis;

the elongated shaft first end comprising a first handle;

a casing coupled to the elongated shaft between the first end and the second end; [and]

a second handle functionally coupled to the casing, the second handle being configured to rotate with respect to the elongated shaft within the casing;

wherein the casing defines a circular interior and the second handle has a length defined between opposing distal ends, the opposing distal ends being functionally coupled to the circular interior, *wherein the second handle rotates between a parallel position wherein the second handle and the elongated shaft are parallel with one another and a transverse position wherein the second handle and the elongated shaft are transverse to one another; [and]*

wherein the first axis and the circular interior lie in a plane and the second handle rotates in the plane;

a tool implement coupled to the elongated shaft second end, wherein the tool implement is selected from a group consisting of: a shovel, a rake, a broom, a mop, a grass edger, a floor scraper, and a pitchfork; and

a locking lever configured to lock the second handle in one or more positions along a path extending from the parallel position to the transverse position, wherein the locking lever is movable between a first position and a second position, the locking lever configured to lock and prevent pivoting of the second handle when in the first position and unlock the second handle when in the second position.

8. The hand-held tool of claim 7, wherein the second handle defines a length between opposing distal ends, the length of the second handle defining a second axis, the second handle being configured to rotate between a parallel position wherein the first and second axes are parallel with one another and a transverse position wherein the first and second axes are transverse to one another.

[9. The hand-held tool of claim 7, wherein the handle rotates between a parallel position wherein the handle and the elongated shaft are parallel with one another and a transverse position wherein the handle and the elongated shaft are transverse to one another.]

[10. The hand-held tool of claim 7, further comprising a locking lever, the locking lever being operable to transition the handle between a free position and an engaged position, wherein in the free position the handle rotates with respect to the elongated shaft and wherein in the engaged position the handle is locked with respect to the elongated shaft.]

11. The hand-held tool of claim 7, wherein the elongated shaft is comprised of a first shaft part and a second shaft part, the casing being coupled between the first shaft part and the second shaft part.

12. The hand-held tool of claim 7, [further comprising a footstep and a tool implement, the tool implement being functionally coupled to the second end of the elongated shaft and the footstep being configured between the elongated shaft and the tool implement] *wherein the tool implement comprises a footstep.*

13. A hand-held tool, comprising:

an elongated shaft having a first axis, the elongated shaft having a first shaft part and a second shaft part, each of the first shaft part and the second shaft part being aligned on the first axis;

a proximal end of the elongated shaft first part comprising a first handle;

a casing coupled between the first shaft part and the second shaft part; [and]

a *second* handle functionally coupled to the casing, the *second* handle being configured to rotate with respect to the elongated shaft within the casing; and

a tool implement coupled to the second shaft part, wherein the tool implement is selected from a group consisting of: a shovel, a rake, a broom, a mop, a grass edger, a floor scraper, and a pitchfork; and

a locking lever configured to lock the second handle in one or more positions along a path extending from a parallel position where the second handle is parallel to the elongated shaft to a transverse position where the second handle is transverse to the elongated shaft, wherein the locking lever is movable between a first position and a second position, the locking lever configured to lock and prevent pivoting of the second handle when in the first position and unlock the second handle when in the second position.

14. The hand-held tool of claim 13, wherein the casing defines a circular interior, and wherein the first axis and the circular interior lie in a plane and the *second* handle rotates in the plane.

15. The hand-held tool of claim 13, wherein the *second* handle defines a length between opposing distal ends, the length of the *second* handle defining a second axis, the *second* handle being configured to rotate to adjust an angle between the first axis and the second axis.

[16. The hand-held tool of claim 13, further comprising a locking lever, the locking lever being operable to transition the handle between a free position and an engaged position, wherein in the free position the handle rotates within the casing and wherein in the engaged position the handle is locked within the casing.]

17. The hand-held tool of claim 13, [further comprising a footstep and a tool implement, the tool implement being functionally coupled to the second shaft part and the footstep being configured between the second shaft part and the tool implement] *wherein the tool implement comprises a footstep.*

18. A hand-held tool, comprising:

an elongated shaft defining a length between a first end and a second end, the length of the elongated shaft defining a first axis;

a proximal end of the elongated shaft comprising a first handle;

a *second* handle functionally coupled to the elongated shaft, the *second* handle defining a length between opposing distal ends, the length of the *second* handle defining a second axis, the *second* handle being configured to pivot with respect to the first axis between a parallel position wherein the first and second axes are

parallel with one another and a transverse position wherein the first and second axes are transverse to one another; [and]

a locking lever, the locking lever being operable to transition the handle between a free position and an engaged position, wherein in the free position the handle pivots with respect to the first axis and wherein in the engaged position the handle is locked with respect to the first axis] *configured to lock the second handle in one or more positions along a path extending from the parallel position to the transverse position, wherein the locking lever is movable between a first position and a second position, the locking lever configured to lock and prevent pivoting of the second handle when in the first position and unlock the second handle when in the second position; and*

a tool implement coupled to the elongated shaft second end, wherein the tool implement is selected from a group consisting of: a shovel, a rake, a broom, a mop, a grass edger, a floor scraper, and a pitchfork.

19. The hand-held tool of claim 18, wherein the *second* handle is functionally coupled to the elongated shaft between the first and second ends of the shaft.

20. The hand-held tool of claim 18, wherein the first axis and the second axis intersect with one another.

21. The hand-held tool of claim 18, wherein the first axis and the second axis lie in a plane and the *second* handle pivots in the plane.

22. The hand-held tool of claim 18, wherein the first axis intersects the *second* handle at an intersection between opposing distal ends of the *second* handle.

23. The hand-held tool of claim 22, wherein the *second* handle pivots with respect to the first axis about the intersection.

24. A hand-held tool, comprising:

an elongated shaft having a length defined between a first end and a second end, the length of the elongated shaft defining a first axis;

the elongated shaft first end comprising a first handle; a casing coupled to the elongated shaft between the first end and the second end; [and]

a *second* handle functionally coupled to the casing, the *second* handle being configured to rotate with respect to the elongated shaft within the casing;

wherein the elongated shaft is comprised of a first shaft part and a second shaft part, the casing being coupled between the first shaft part and the second shaft part;

a tool implement coupled to the elongated shaft second end, wherein the tool implement is selected from a group consisting of: a shovel, a rake, a broom, a mop, a grass edger, a floor scraper, and a pitchfork; and

a locking lever configured to lock the second handle in one or more positions along a path extending from a parallel position where the second handle is parallel to the elongated shaft to a transverse position where the second handle is transverse to the elongated shaft, wherein the locking lever is movable between a first position and a second position, the locking lever configured to lock and prevent pivoting of the second handle when in the first position and unlock the second handle when in the second position.

25. The hand-held tool of claim 24, wherein the casing defines a circular interior and the *second* handle has a length defined between opposing distal ends, the opposing distal ends being functionally coupled to the circular interior.

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26. The hand-held tool of claim 25, wherein the first axis and the circular interior lie in a plane and the *second* handle rotates in the plane.

27. The hand-held tool of claim 26, wherein the *second* handle rotates between a parallel position wherein the *second* handle and the elongated shaft are parallel with one another and a transverse position wherein the *second* handle and the elongated shaft are transverse to one another.

28. The hand-held tool of claim 24, wherein the *second* handle defines a length between opposing distal ends, the length of the *second* handle defining a second axis, the *second* handle being configured to rotate between a parallel position wherein the first and second axes are parallel with one another and a transverse position wherein the first and second axes are transverse to one another.

[29. The hand-held tool of claim 24, further comprising a locking lever, the locking lever being operable to transition the handle between a free position and an engaged position, wherein in the free position the handle rotates with respect to the elongated shaft and wherein in the engaged position the handle is locked with respect to the elongated shaft.]

30. The hand-held tool of claim 24, [further comprising a footstep and a tool implement, the tool implement being

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functionally coupled to the second end of the elongated shaft and the footstep being configured between the elongated shaft and the tool implement] *wherein the tool implement comprises a footstep.*

31. *The hand-held tool of claim 13, wherein the tool implement comprises a shovel.*

32. *The hand-held tool of claim 31, wherein the tool implement comprises a snow shovel.*

33. *The hand-held tool of claim 13, wherein the tool implement comprises a rake.*

34. *The hand-held tool of claim 13, wherein the tool implement comprises a broom.*

35. *The hand-held tool of claim 13, wherein the tool implement comprises a floor scraper.*

36. *The hand-held tool of claim 13, wherein the tool implement comprises a mop.*

37. *The hand-held tool of claim 13, wherein the tool implement comprises a grass edger.*

38. *The hand-held tool of claim 13, wherein the tool implement comprises a pitchfork.*

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