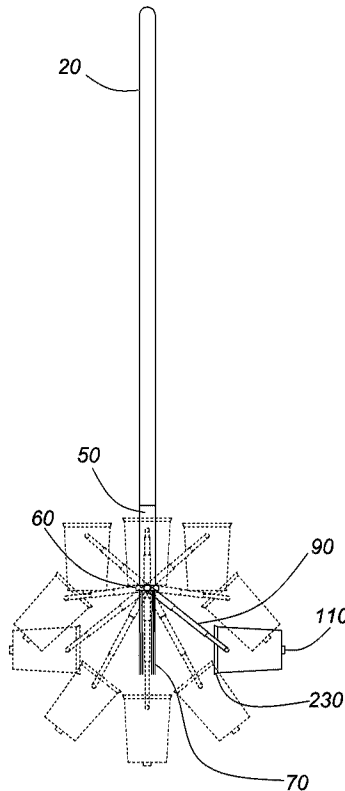




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(54) Title: BROOM AND DUST PAN COMBINATION



(57) **Abrégé/Abstract:**

The present invention is a broom and dust pan combination with the broom having an elongate handle and at least one offset connection attached to a bristle head to define a gateway atop the bristle head. The dust pan has at least one telescoping pivotal arm for connection to any one of the a) offset connection, b) handle, and c) bristle head, for moving the dust pan from an upright position atop the bristle head to a position lying in front of the broom and back again to the position atop the bristle head.

ABSTRACT

The present invention is a broom and dust pan combination with the broom having an elongate handle and at least one offset connection attached to a bristle head to define a gateway atop the bristle head. The dust pan has at least one telescoping pivotal arm for connection to any one of the a) offset connection, b) handle, and c) bristle head, for moving the dust pan from an upright position atop the bristle head to a position lying in front of the broom and back again to the position atop the bristle head.

TITLE

BROOM AND DUST PAN COMBINATION

5

FIELD OF THE INVENTION

[0001] The present invention is in the field of broom and dust pan combinations.

10

SUMMARY

[0002] The present invention is a broom with an associated uprightable basin dust pan attached to the broom, wherein the dust pan is moveable and operable on either side of the broom.

[0003] In another embodiment the present invention is a broom with an associated uprightable basin dust pan operable by foot to move the dust pan from an upright storage position to either side of the broom.

20

[0004] In yet another embodiment the present invention is a broom with an associated uprightable basin dust pan attached to the broom wherein the dust pan is moveable between at least two different positions wherein the dust pan remains operative and accessible.

25

BACKGROUND OF THE INVENTION

[0005] Numerous broom and dust pan combinations are already known, and
5 numerous combinations focus on solving different problems.

[0006] CN204274350 discloses a combination broom and flat dust pan wherein
the dust pan is connected to the broom handle by way of a bias spring allowing for the
pan to move from a retracted and elevated position behind the broom to an extended
10 position behind the broom.

[0007] CN201939280 discloses a combination broom and flat dust pan, with a
bias spring and pivotal connection to extend the broom away from the dust pan when
the broom handle is moved away from the dust pan handle, and compress the broom
15 toward the dust pan when the broom handle is compressed toward the dust pan
handle.

[0008] CN201782710 similarly discloses a combination broom and uprightable
basin dust pan wherein the broom has a pivotal connection to the dust pan permitting
20 the dust pan to move from a position lying on the ground when the connected broom is
sweeping into the basin to an upright position behind the broom.

[0009] CN104367285 discloses a combination broom and flat dust pan wherein
the broom has a jointed connection to the dust pan for moving the broom and sweeping
25 while the broom remains connected to the dust pan.

[0010] CN103860118 discloses a combination broom and flat dust pan nearly identical to CN201939280.

5 [0011] CN201912020 discloses a combination broom and flat dust pan mirroring and nearly identical to CN104367285 excepting that instead the dust pan is connected to the broom by way of jointed connection, rather than the broom being connected by a jointed connection.

10 [0012] ES1024234 discloses a broom and flat dust pan combination wherein the flat dust pan has a jointed connection permitting the dust pan to move from a first position lying on the ground wherein the flat dust pan is ready to receive debris, to a second position wherein the flat dust pan is manually folded upright and then collapsed to within the broom handle.

15

[0013] KR101972710 discloses a basin-style dust pan having an upright handle and disposed within the basin a laterally disposed broom with a bias for plunging the broom back and forth to sweep debris into the basin dust pan.

20 [0014] US20160128462 discloses a broom and flat dust pan combination wherein the dust pan is connected to the broom by way of a flexible cord within a hollow broom handle shaft, with the cord being retractable and extendable through operation of a hand grip, to move the dust pan from a position lying on a floor to a position nested against the broom handle.

25

[0015] US5425153 discloses a broom and flat dust pan combination wherein the dust pan is connected to the broom by way of an elongate pivoting handle for moving the dust pan from a position lying on a floor to a position nested against one side of the broom, somewhat akin to CN201939280.

5

[0016] US5379481 discloses an uprightable dustpan with an offset connected handle for receiving a broom within the basin dust pan and connecting the broom handle to the dust pan handle.

10 [0017] US3453676 discloses an openable uprightable basin dust pan having a broom attached for sweeping debris into the basin when the basin is in a position lying on a floor and the dust pan handle is rotated downward, with the basin moving to an upright position on lifting of the dust pan handle wherein the broom lies against and within the dust pan.

15

[0018] US1669302 discloses a broom and rigidly affixed dust pan combination similar to CN104367285 but features an additional spring bias and reciprocating telescoping dust pan handle to activate broom sweeping by pumping the dust pan handle in an up and down vertical motion.

20

[0019] US1659461 discloses a broom and dust pan combination having a dust pan with a defined chamber for inserting a shoe or other weighted support to stabilize the dust pan when in use during sweeping.

25 [0020] US1375017 discloses a broom with a downwardly orientated basin dust

pan connected to the broom by way of elastic wiring, for moving the dust pan from a position biased against the broom to a position lying on a floor adjacent the broom for sweeping debris therein.

5 [0021] US1143752 discloses a combination shovel and broom wherein the broom is disposed immediately astern the shovel and the shovel is moveable by lever from a shoveling position to a folded position atop the broom.

[0022] US1082128 discloses a belt and ring dust pan attachment for use with an
10 associated broom.

[0023] US320742 discloses a combination sink scraper and flat waste receptacle wherein the waste receptacle is moveable from a position lying on a floor to a position upright and nested against the scraper handle, with the scraper connected by pivot to
15 the receptacle handle for pivoted scraping movement.

[0024] All of the prior art combination broom and dust pan references above suffer from consistent drawbacks and failure.

20 [0025] Specifically, none of the aforementioned combinations disclose a dust pan that is always in a functional or useable position ie the dust pans are always of a type, or positioned in a manner, so as to be non-functional, inaccessible, or both.

[0026] Also, each of the previous combinations require operation of the dust pan
25 on only one side of the associated broom, and the dust pans cannot be moved from one

side of the broom to the other without rotating the broom together with the dust pan.

[0027] Also, none of the aforementioned combinations disclose a dust pan moveable by foot from an upright storage position to one side of the broom or the other.

5

DRAWINGS

[0028] FIGURE 1 is a front plan view of one embodiment showing a combination
10 broom with a fork handle attached to a telescoping uprightable dust pan in an upright storage position.

[0029] FIGURE 1A is an enlarged view of the circled area in FIGURE 1.

15 [0030] FIGURE 2A is a side plan view according to FIGURE 1 with the dust pan moving from one side of the broom to an upright storage position to the other side of the broom.

[0031] FIGURE 2B is a side plan view according to FIGURE 1 with the dust pan
20 extended to lie on the ground on one side of the broom.

[0032] FIGURE 3 is a perspective view of another embodiment showing a dust pan emptying debris into a waste basket.

25 [0033] FIGURE 4 is a front plan view of yet another embodiment showing a

combination broom with a telescoping uprightable dust pan in an upright storage position having telescoping arms attached to a paired offset connection and bristle head.

5 [0034] FIGURE 5A is a side plan view according to FIGURE 4 with the dust pan moving from an upright storage position to a first side of the broom to beneath the broom to a second side of the broom and then returning to the upright storage position.

[0035] FIGURE 5B is a perspective view according to FIGURE 4 with the dust
10 pan extended to lie on the ground on one side of the broom.

[0036] FIGURE 6 is a perspective view according to FIGURE 4 demonstrating
foot operation of the dust pan wherein the dust pan base-width exceeds the bristle head
width, to form an overhang surface for engagement by a user foot.
15

[0037] FIGURE 7 is still yet another embodiment showing an optional detachable
handle and a dust pan able to move from a position on one side of the broom to a
position atop the bristle head to a position on a second side of the broom and back
again.
20

[0038] FIGURE 8 is still yet another embodiment showing a dust pan pivotally
attached to a bristle head to circumnavigate the bristle head in a three hundred and
sixty degree range of motion in either direction.

25 [0039] FIGURE 9 is still yet another embodiment wherein a mop interface is

substituted in place of the dust pan, to provide a mopping utility on either side of the broom with an ability to rest atop the bristle head.

5 DESCRIPTION

[0040] FIGURE 1 shows the invention (10) generally, in one specific embodiment of a combination broom (10) and dust pan (40).

10 [0041] The broom (10) is comprised of an elongate handle (20), and in the first specific embodiment, the handle includes a fork (30) element integrated therein.

[0042] In one possible, embodiment, the fork (30) is merely a bar / rod / dowel bent into a U-shape so as to define a passageway between a pair of fork (30) arms, while
15 the elongate handle (20) is a solid portion (such as a tube-like sleeve) fitting over the fork (30).

[0043] In the instance of FIGURE 1 the elongate handle (20) has, near the fork (30) terminals (meaning near where the fork (30) arms terminate), a paired offset connection
20 (50) attached to a bristle head (60), to define a gateway atop the bristle head (60) and between the paired offset connection (50).

[0044] The bristle head (60) is merely a platform surface to which bristles (70) are attached.

25

[0045] Paired offset means that the connector (50) is spread apart and atop the bristle head (60), to define a gap within, when the connection is mated between the bristle head (60) and the handle (20, 30).

5 [0046] It is also possible to use only one connector (50) such that there is no connection to both sides of the bristle head (60), and such an alternate embodiment is shown particularly in Figure 7.

[0047] The paired offset connection (50), in construction, can be either a mere
10 extension of the fork (30) arms or a separate bracketed piece attached to the fork (30) arms to form an archway in the manner depicted in Figure 1.

[0048] Associated with the handle (20, 30) is dust pan (40), although FIGURE 9
shows an alternate embodiment wherein the dust pan (40) is substituted by a mop head
15 (200) and accompanying mop cover (210).

[0049] The gateway defined by the paired offset connection (50) and the bristle
head (60) forms an area through which the associated dust pan (40) can freely pass
through as part of normal usage.

20

[0050] The dust pan (40) is ideally an uprightable basin type dust pan(40),
meaning the dust pan (40) is shaped to form a basin and in operation is uprightable by
gravity and basin weight distribution.

25 [0051] Also, the uprightable dust pan (40) can be configured with ramps (230) on

either or both faces such that whichever face of the dust pan (40) is lying down or when in an extended position, a ramp will be presented to the broom so that the bristles (70) can sweep debris (130) onto the ramp (230) and into the dust pan (40).

5 [0052] Uprightable means the dust pan (40) can be manipulated by weight distribution into an upright position wherein debris (130) and the like is sitting within and at the bottom of the basin such that the dust pan (40) can be carried without unintentionally spilling its contents – meaning debris (130) – and later pivoted to empty any stored debris (130) into a more permanent waste storage (such as shown in Figure
10 3).

[0053] In the FIGURE 1 embodiment, the dust pan (40) has a conventional telescoping arm (80) attached to the dust pan (40) at at least one point, and attached to the fork (30) at at least one point.

15

[0054] The manner of attachment between the telescoping arm (80) and the fork (30) can be of almost any variety provided the telescoping arm (80) is able to pass through a gap defined by the fork (30) arms by pivoting the telescoping arm (80) from one side of the broom through to the other via the gateway defined by the paired offset
20 connection (50) and the bristle head (60).

[0055] Stated differently, the telescoping arm (80) must be able to nestle within the fork (30) gap by pivoting the telescoping arm (80) from one side of the broom to atop the bristle head (60) (ie when the dust pan is in an upright position).

25

[0056] Best seen in alternate embodiment FIGURE 5A, the telescoping arm (90) allows the dust pan (40) to be extended to either side of the bristles (70), and correspondingly placed so the bristles (70) can sweep debris into the dust pan (40).

5 [0057] FIGURE 5A in particular demonstrates an embodiment permitting the dust pan (40) to travel in a three hundred and sixty-degree range of motion ranging from atop the bristle head (60) to one side of the bristles (70) to beneath the bristles (70) to another side of the bristles (70) and then back atop the bristle head (60).

10 [0058] In a configuration shown in FIGURE 2B, the dust pan (40) will lie upon the ground in a position with the open basin mouth pointed toward the bristles (70) for receiving debris (130) therein, because of the pivotal connection between the dust pan (40) and the telescoping arm (80) as well as weighted construction.

15 [0059] The telescoping arm (80) can be configured to pass through the fork (30) gap freely and without obstruction.

[0060] Shown in FIGURE 1A are optional protrusions (100) attached to the fork (30) for biasing against the telescoping arm (80) in a lock-and-release manner, wherein
20 when the dust pan (40) is atop the bristle head (60) and the telescoping arm (80) is intentionally pinched in place between the fork (30) arms to prevent movement of the telescoping arm (80) – a form of selective locking.

[0061] There are different ways to lock the dust pan (40) or telescoping arm (80)
25 into place when the dust pan (40) is in the upright position atop the bristle head (60)

and the telescoping arm (80) is amid and between the fork (30) arms, and one alternate configuration is disclosed in FIGURE 6 showing a corresponding male-female engagement (110-120) to lock and release the dust pan (40) into and from the upright position atop the bristle head (60).

5

[0062] Where foot operation of the dust pan (40) is desired (removing or disengaging the dust pan (40) from the bristle head (60); best shown in FIGURE 6), the dust pan (40) needs to be constructed with a width exceeding that of the bristle head (60) such that a portion of the dust pan (40) overhangs relative to the bristle head (60) (see FIGURES 2A and 5A), the dust pan (40) overhang being an area or surface for engagement by the user foot (FIGURE 6).

10

[0063] Where a width narrower or equal to the bristle head (60) is desired for whatever reason, the dust pan (40) and telescoping arm (80) can be operated by hand as opposed to foot.

15

[0064] Other alternate configurations in FIGURES 4, 5A, 5B, 6, and 8 show a differently configured telescoping arm (90) having at least one handle offset attached to the bristle head (60), and in particular at least one telescoping arm (90) with at least one point of pivotal attachment (for example FIGURE 5B (220) and FIGURE 8 (240)) to both and each of the dust pan (40) and any one selected from the group comprising a) the handle (20), b) the bristle head (60), and c) the at least one handle offset (50).

20

[0065] Specifically in FIGURE 6 the telescoping arm (90) can be seen to be pivotally connected to the offset connection (50).

25

[0066] In such configurations with telescoping arm (90), there is no practical need for fork (30) arms integrated into the broom handle (20) but likewise there is no prohibition against same – it matters only that the dust pan (40) and telescoping arm
5 (90) are attached and configured to permit the dust pan (40) to pivot from an extended position lying on the ground to an upright position atop the bristle head (60) and within the gateway.

[0067] The telescoping arm (90) should preferably connect to any of the a)
10 handle (20), b) bristle head (60), and c) at least one handle offset (50), in such a manner that when the dust pan (40) is laid upon the ground, the bristles (70) of the broom (10) are able to sweep debris (130) into the dust pan (40) without being obstructed by the telescoping arm (90).

15 [0068] Telescoping arm (90) also permits the dust pan (40) to move from the original extended position lying on the ground to the upright position atop the bristle head (60) and then (via the gateway) to another extended position lying on the ground on a side opposite to the original extended position.

20 [0069] Additional features disclosed include at least one protrusion (180) positioned on the dust pan (40) (FIGURE 3) to bear against telescoping arm (80), for biasing the dust pan (40) into a pre-selected orientation, such as locking the dust pan (40) into an orientation for dumping or expelling debris (130) contents into a waste bin.

25 [0070] Also shown in FIGURE 3 is the bristle head optionally defining at least

one gap (150) to receive at least partially within the gap (150) a portion of the telescoping arm (80).

[0071] The FIGURE 3 gap (150) is also shown in FIGURE 9, wherein not only
5 does the gap (150) receive a portion of the telescoping arm (80), but the gap (150) also provides an interaction site for protrusions (160) such that when the telescoping arm is extended a pre-determined distance (typically such that the dust pan (40) or mop head (200) extends to just beyond the bristles (70)), the telescoping arm (80) can be nestled into the gap (150) and rigidly locked (in respect of relative vertical motion) into place by
10 protrusions (160) relatively positioned both atop and beneath the bristle head (60), such that mopping or dust pan (40) emptying can occur with the mop head (200) or dust pan (40) secured in place.

[0072] FIGURE 9 also shows a mop head cover (210) to slide over the mop head
15 (200), in a manner known in the mopping and sweeping market, the general type of mop head being shown in this instance being similar in nature to SWIFFER (TM – The Proctor And Gamble Company, USA) type mops, ie mop head (200) plus mop cover (210).

20 [0073] Also shown in a number of alternate embodiments is the feature of the telescoping arm (80) being selectively detachable from the handle (20), such as shown in FIGURES 7 and 9 (using, for example, a detachable pin (170)), and regardless of whether the embodiment involves a dust pan (40) or mop head (200).

25 [0074] FIGURES 2A, 5A, and 8 all disclose both clockwise and counter-clockwise

travel direction for the dust pan (40), or when substituted, the mop head (200).

[0075] Accounting for all of the exemplary embodiments (FIGURES 1 to 9) disclosed, the broom and dust pan (40) (or mop head (200) as appropriate) combination
5 in the present invention is at a minimum moveable from one side of a broom to atop the bristle head (60) gateway, and at a maximum is moveable in a three hundred and sixty degree range of motion transiting over or via the bristle head (60) gateway, regardless of whether travel direction is clockwise or counter-clockwise.

CLAIMS

1. A broom and dust pan combination comprising:
5 the broom having an elongate handle with at least one connection attached to a bristle head having associated bristles;
the dust pan having at least one telescoping pivotal arm attached to any one of the a) at least one connection, b) elongate handle, and c) bristle head; and
the telescoping pivotal arm and dust pan being aligned with the handle for
10 unobstructed pivotal movement of the dust pan from a position atop the bristle head to a position lying to one side of the broom.
2. The broom and dust pan combination in claim 1 wherein the dust pan is an uprightable basin.
15
3. The broom and dust pan combination in claim 1 wherein the dust pan sits in an upright storage position when atop the bristle head.
4. The broom and dust pan combination in claim 1 wherein the handle, the at least
20 one connection, and the bristle head together define a gateway for unobstructed movement of the dust pan therethrough ranging from a first position on one side of the broom to an upright second position atop the bristle head to a third position on another side of the broom, and back again to anywhere between said positions.
- 25 5. The broom and dust pan combination in claim 1 wherein the telescoping pivotal

arm is selectively detachable from the elongate handle.

6. The broom and dust pan combination in claim 1 further comprising a hook atop the elongate handle, for hanging the broom and dust pan combination.

5

7. The broom and dust pan combination in claim 1 wherein the elongate handle is a fork handle defining a passageway through which the dust pan telescoping pivotal arm can pass through.

10 8. The broom and dust pan combination in claim 1 wherein the elongate handle is a fork handle defining a gap that the dust pan telescoping pivotal arm can nestle within.

9. A broom and dust pan combination comprising:

15 the broom having an elongate handle with a paired offset connection attached to a bristle head having associated bristles, to define a gateway atop the bristle head and between the paired offset connection;

20 the dust pan having at least one telescoping pivotal arm for connection to either of the a) paired offset connection, b) handle, and c) bristle head, for moving the dust pan from a position lying in front of the broom to a position atop the bristle head to a position lying behind the broom and back again via and through the gateway.

10. The broom and dust pan combination in claim 9 wherein the elongate handle is a fork handle defining a passageway through which the dust pan telescoping pivotal arm can pass through.

25

11. The broom and dust pan combination in claim 9 wherein the elongate handle is a fork handle defining a gap that the dust pan telescoping pivotal arm can nestle within.
12. The broom and dust pan combination in claim 9 wherein the dust pan is an
5 uprightable basin.
13. The broom and dust pan combination in claim 9 wherein the dust pan sits in an upright storage position when atop the bristle head.
- 10 14. The broom and dust pan combination in claim 10 further comprising at least one protrusion on the fork handle to bias the dust pan telescoping pivotal arm into a restrained position within the fork wherein the dust pan sits atop the bristle head.
- 15 15. The broom and dust pan combination in claim 11 further comprising at least one
15 protrusion on the fork handle to bias the dust pan telescoping pivotal arm into a restrained position within the fork wherein the dust pan sits atop the bristle head.
16. The broom and dust pan combination in claim 9 further comprising a
20 cooperative engagement between the dust pan and either one of the a) broom handle, and b) bristle head, to selectively lock and retain the dust pan atop the bristle head in an upright position.
17. The broom and dust pan combination in claim 9 wherein the dust pan base-
width exceeds the bristle head width, to form an overhang surface for engagement by a
25 user foot.

18. A broom and dust pan combination comprising:
the broom having an elongate handle with at least one offset connection attached to a bristle head having associated bristles, to define a gateway atop the bristle head;
5 the dust pan having at least one telescoping pivotal arm for connection to either of the a) at least one offset connection, b) handle, and c) bristle head, for moving the dust pan from a position atop the bristle head to a position lying on one side of the broom and back again.

10 19. The broom and dust pan combination in claim 18 wherein the elongate handle is a fork handle defining a gap that the dust pan telescoping pivotal arm can nestle within.

20. The broom and dust pan combination in claim 18 wherein the dust pan is an uprightable basin.

15

21. The broom and dust pan combination in claim 18 wherein the dust pan sits in an upright storage position when atop the bristle head.

22. The broom and dust pan combination in claim 19 further comprising at least one
20 protrusion on the fork handle to bias the dust pan telescoping pivotal arm into a restrained position within the fork wherein the dust pan sits atop the bristle head.

23. The broom and dust pan combination in claim 19 wherein the dust pan
telescoping pivotal arm is connected to the fork handle and sized for nestling within the
25 fork on movement of the dust pan to the position atop the bristle head.

24. The broom and dust pan combination in claim 18 further comprising a cooperative engagement between the dust pan and either one of the a) broom handle, and b) bristle head, to selectively lock and retain the dust pan atop the bristle head in an upright position.

25. The broom and dust pan combination in claim 18 wherein the dust pan base width exceeds the bristle head width, to form an overhang surface for engagement by a user foot.

10

26. The broom and dust pan combination in claim 18 wherein the elongate handle is a fork handle defining a gap that the dust pan telescoping pivotal arm can pass therethrough.

15 27. The broom and dust pan combination in claim 18 wherein the bristle head defines at least one gap to receive at least partially within the gap a portion of the telescoping arm.

28. The broom and dust pan combination in claim 18 further comprising a paired protrusion positioned on the telescoping arm at a pre-selected location where one protrusion lies on top of the bristle head and one protrusion lies beneath the bristle head when the telescoping arm is extended a pre-determined distance, to lock the telescoping arm to the bristle head when the telescoping arm is extended that pre-determined distance from the bristle head and biased against the bristle head.

25

29. The broom and dust pan combination in claim 18 wherein the at least one telescoping pivotal arm is selectively attachable and releasable from any of the corresponding a) at least one offset connection, b) handle, and c) bristle head.

5 30. The broom and dust pan combination in claim 18 further comprising at least one protrusion positioned on the dust pan to bear against telescoping arm, for biasing the dust pan into a pre-selected orientation.

31. The broom and dust pan combination in claim 18 wherein the dust pan defines a
10 ramp for sweeping debris thereupon.

32. A broom and mop head combination comprising:

the broom having an elongate handle with at least one connection attached to a bristle head having associated bristles;

15 the mop head having at least one telescoping pivotal arm attached to any one of the a) at least one connection, b) elongate handle, and c) bristle head; and

the telescoping pivotal arm and mop head being aligned with the handle for unobstructed pivotal movement of the mop head to any position within a three hundred and sixty degree arc ranging from atop the bristle head to a position lying to
20 one side of the broom to a position underneath the bristle head to a position lying on another side of the broom and back to atop the bristle head.

33. A broom and dust pan combination comprising:

the broom having an elongate handle with at least one connection attached to a
25 bristle head having associated bristles;

the dust pan having at least one telescoping pivotal arm attached to any one of the a) at least one connection, b) elongate handle, and c) bristle head; and

the telescoping pivotal arm and dust pan being aligned with the handle for unobstructed pivotal movement of the dust pan to any position within a three hundred
5 and sixty degree arc ranging from atop the bristle head to a position lying to one side of the broom to a position underneath the bristle head to a position lying on another side of the broom and back to atop the bristle head.

34. A broom and dust pan combination comprising:

10 the broom having an elongate handle with at least one connection attached to a bristle head having associated bristles;

the dust pan having at least one telescoping pivotal arm attached to any one of the a) at least one connection, b) elongate handle, and c) bristle head; and

15 the telescoping pivotal arm and dust pan being aligned with the handle for unobstructed pivotal movement of the dust pan to any position ranging from lying to one side of the broom to a position atop the bristle head to a position lying on the other side of the broom and back again.

35. A broom and mop head combination comprising:

20 the broom having an elongate handle with at least one connection attached to a bristle head having associated bristles;

the mop head having at least one telescoping pivotal arm attached to any one of the a) at least one connection, b) elongate handle, and c) bristle head; and

25 the telescoping pivotal arm and mop head being aligned with the handle for unobstructed pivotal movement of the mop head to any position ranging from lying to

one side of the broom to a position atop the bristle head to a position lying on the other side of the broom and back again.

36. A broom and dust pan combination comprising:

- 5 the broom having an elongate handle with at least one offset connection attached to a bristle head having associated bristles, to define a gateway atop the bristle head;
- the dust pan having at least one telescoping pivotal arm for connection to either of the a) at least one offset connection, b) handle, and c) bristle head, the telescoping pivotal arm and dust pan being aligned with the handle for unobstructed pivotal
- 10 movement of the dust pan to any position via the gateway and within a three hundred and sixty degree arc ranging from atop the bristle head to a position lying to one side of the broom to a position underneath the bristle head to a position lying on another side of the broom and back to atop the bristle head.

15 37. A broom and dust pan combination comprising:

- the broom having an elongate handle with at least one offset connection attached to a bristle head having associated bristles, to define a gateway atop the bristle head;
- the dust pan having at least one telescoping pivotal arm for connection to either of the a) at least one offset connection, b) handle, and c) bristle head, the telescoping
- 20 pivotal arm and dust pan being aligned with the handle for unobstructed pivotal movement of the dust pan to any position via the gateway and ranging from lying to one side of the broom to a position atop the bristle head to a position lying on the other side of the broom and back again.

25 38. A broom and mop head combination comprising:

the broom having an elongate handle with at least one offset connection attached to a bristle head having associated bristles, to define a gateway atop the bristle head;

the mop head having at least one telescoping pivotal arm for connection to either of the a) at least one offset connection, b) handle, and c) bristle head, the telescoping
5 pivotal arm and mop head being aligned with the handle for unobstructed pivotal movement of the mop head to any position via the gateway and within a three hundred and sixty degree arc ranging from atop the bristle head to a position lying to one side of the broom to a position underneath the bristle head to a position lying on another side of the broom and back to atop the bristle head.

10

39. A broom and mop head combination comprising:

the broom having an elongate handle with at least one offset connection attached to a bristle head having associated bristles, to define a gateway atop the bristle head;

the mop head having at least one telescoping pivotal arm for connection to either
15 of the a) at least one offset connection, b) handle, and c) bristle head, the telescoping pivotal arm and mop head being aligned with the handle for unobstructed pivotal movement of the mop head to any position via the gateway and ranging from lying to one side of the broom to a position atop the bristle head to a position lying on the other side of the broom and back again.

20

40. The broom and dust pan combination in claim 36 wherein the dust pan is an uprightable basin.

41. The broom and dust pan combination in claim 36 wherein the dust pan sits in an
25 upright storage position when atop the bristle head.

42. The broom and dust pan combination in claim 36 further comprising a hook atop the elongate handle, for hanging the broom and dust pan combination.

5 43. The broom and dust pan combination in claim 36 further comprising a cooperative engagement between the dust pan and either one of the a) broom handle, and b) bristle head, to selectively lock and retain the dust pan atop the bristle head in an upright position.

10 44. The broom and dust pan combination in claim 36 wherein the dust pan base-width exceeds the bristle head width, to form an overhang surface for engagement by a user foot.

45. The broom and dust pan combination in claim 36 wherein the bristle head
15 defines at least one gap to receive at least partially within the gap a portion of the telescoping arm.

46. The broom and dust pan combination in claim 36 further comprising a paired
20 protrusion positioned on the telescoping arm at a pre-selected location where one protrusion lies on top of the bristle head and one protrusion lies beneath the bristle head when the telescoping arm is extended a pre-determined distance, to lock the telescoping arm to the bristle head when the telescoping arm is extended that pre-determined distance from the bristle head and biased against the bristle head.

25 47. The broom and dust pan combination in claim 36 wherein the at least one

telescoping pivotal arm is selectively attachable and releasable from any of the corresponding a) at least one offset connection, b) handle, and c) bristle head.

48. The broom and dust pan combination in claim 36 further comprising at least one
5 protrusion positioned on the dust pan to bear against telescoping arm, for biasing the dust pan into a pre-selected orientation.

49. The broom and dust pan combination in claim 36 wherein the dust pan defines a ramp for sweeping debris thereupon.

10

50. The broom and dust pan combination in claim 37 wherein the dust pan is an uprightable basin.

51. The broom and dust pan combination in claim 37 wherein the dust pan sits in an
15 upright storage position when atop the bristle head.

52. The broom and dust pan combination in claim 37 further comprising a hook atop the elongate handle, for hanging the broom and dust pan combination.

20 53. The broom and dust pan combination in claim 37 wherein the elongate handle is a fork handle defining a passageway through which the dust pan telescoping pivotal arm can pass through.

54. The broom and dust pan combination in claim 37 wherein the elongate handle is
25 a fork handle defining a gap that the dust pan telescoping pivotal arm can nestle within.

55. The broom and dust pan combination in claim 53 further comprising at least one protrusion on the fork handle to bias the dust pan telescoping pivotal arm into a restrained position within the fork wherein the dust pan sits atop the bristle head.

5

56. The broom and dust pan combination in claim 54 further comprising at least one protrusion on the fork handle to bias the dust pan telescoping pivotal arm into a restrained position within the fork wherein the dust pan sits atop the bristle head.

10 57. The broom and dust pan combination in claim 37 further comprising a cooperative engagement between the dust pan and either one of the a) broom handle, and b) bristle head, to selectively lock and retain the dust pan atop the bristle head in an upright position.

15 58. The broom and dust pan combination in claim 37 wherein the dust pan base-width exceeds the bristle head width, to form an overhang surface for engagement by a user foot.

59. The broom and dust pan combination in claim 37 wherein the bristle head
20 defines at least one gap to receive at least partially within the gap a portion of the telescoping arm.

60. The broom and dust pan combination in claim 37 further comprising a paired
25 protrusion positioned on the telescoping arm at a pre-selected location where one protrusion lies on top of the bristle head and one protrusion lies beneath the bristle

head, to lock the telescoping arm to the bristle head when the telescoping arm is extended a pre-determined distance from the bristle head and biased against the bristle head.

5 61. The broom and dust pan combination in claim 37 wherein the at least one telescoping pivotal arm is selectively attachable and releasable from any of the corresponding a) at least one offset connection, b) handle, and c) bristle head.

10 62. The broom and dust pan combination in claim 37 further comprising at least one protrusion positioned on the dust pan to bear against telescoping arm, for biasing the dust pan into a pre-selected orientation.

63. The broom and dust pan combination in claim 37 wherein the dust pan defines a ramp for sweeping debris thereupon.

15

64. The broom and dust pan combination in claim 37 wherein the bristle head defines at least one gap to receive at least partially within the gap a portion of the telescoping arm.

20 65. The broom and mop head combination in claim 38 further comprising a hook atop the elongate handle, for hanging the broom and mop head combination.

25 66. The broom and mop head combination in claim 38 further comprising a cooperative engagement between the mop head and either one of the a) broom handle, and b) bristle head, to selectively lock and retain the mop head atop the bristle head in a

retained position.

67. The broom and mop head combination in claim 38 wherein the mop head base-
width exceeds the bristle head width, to form an overhang surface for engagement by a
5 user foot.

68. The broom and mop head combination in claim 38 wherein the bristle head
defines at least one gap to receive at least partially within the gap a portion of the
telescoping arm.
10

69. The broom and mop head combination in claim 38 further comprising a paired
protrusion positioned on the telescoping arm at a pre-selected location where one
protrusion lies on top of the bristle head and one protrusion lies beneath the bristle
head when the telescoping arm is extended a pre-determined distance, to lock the
15 telescoping arm to the bristle head when the telescoping arm is extended that pre-
determined distance from the bristle head and biased against the bristle head.

70. The broom and mop head combination in claim 38 wherein the at least one
telescoping pivotal arm is selectively attachable and releasable from any of the
20 corresponding a) at least one offset connection, b) handle, and c) bristle head.

71. The broom and mop head combination in claim 39 further comprising a hook
atop the elongate handle, for hanging the broom and mop head combination.

25 72. The broom and mop head combination in claim 39 wherein the elongate handle

is a fork handle defining a passageway through which the mop head telescoping pivotal arm can pass through.

73. The broom and mop head combination in claim 39 wherein the elongate handle
5 is a fork handle defining a gap that the mop head telescoping pivotal arm can nestle within.

74. The broom and mop head combination in claim 72 further comprising at least
10 one protrusion on the fork handle to bias the mop head telescoping pivotal arm into a restrained position within the fork wherein the mop head sits atop the bristle head.

75. The broom and mop head combination in claim 73 further comprising at least
15 one protrusion on the fork handle to bias the mop head telescoping pivotal arm into a restrained position within the fork wherein the mop head sits atop the bristle head.

76. The broom and mop head combination in claim 39 further comprising a
cooperative engagement between the mop head and either one of the a) broom handle,
and b) bristle head, to selectively lock and retain the mop ahead atop the bristle head in
an upright position.

20 77. The broom and dust pan combination in claim 39 wherein the dust pan base-
width exceeds the bristle head width, to form an overhang surface for engagement by a
user foot.

25 78. The broom and mop head combination in claim 39 wherein the bristle head

defines at least one gap to receive at least partially within the gap a portion of the telescoping arm.

5 79. The broom and mop head combination in claim 39 further comprising a paired protrusion positioned on the telescoping arm at a pre-selected location where one protrusion lies on top of the bristle head and one protrusion lies beneath the bristle head, to lock the telescoping arm to the bristle head when the telescoping arm is extended a pre-determined distance from the bristle head and biased against the bristle head.

10

80. The broom and mop head combination in claim 39 wherein the at least one telescoping pivotal arm is selectively attachable and releasable from any of the corresponding a) at least one offset connection, b) handle, and c) bristle head.

15 81. The broom and mop head combination in claim 39 wherein the bristle head defines at least one gap to receive at least partially within the gap a portion of the telescoping arm.

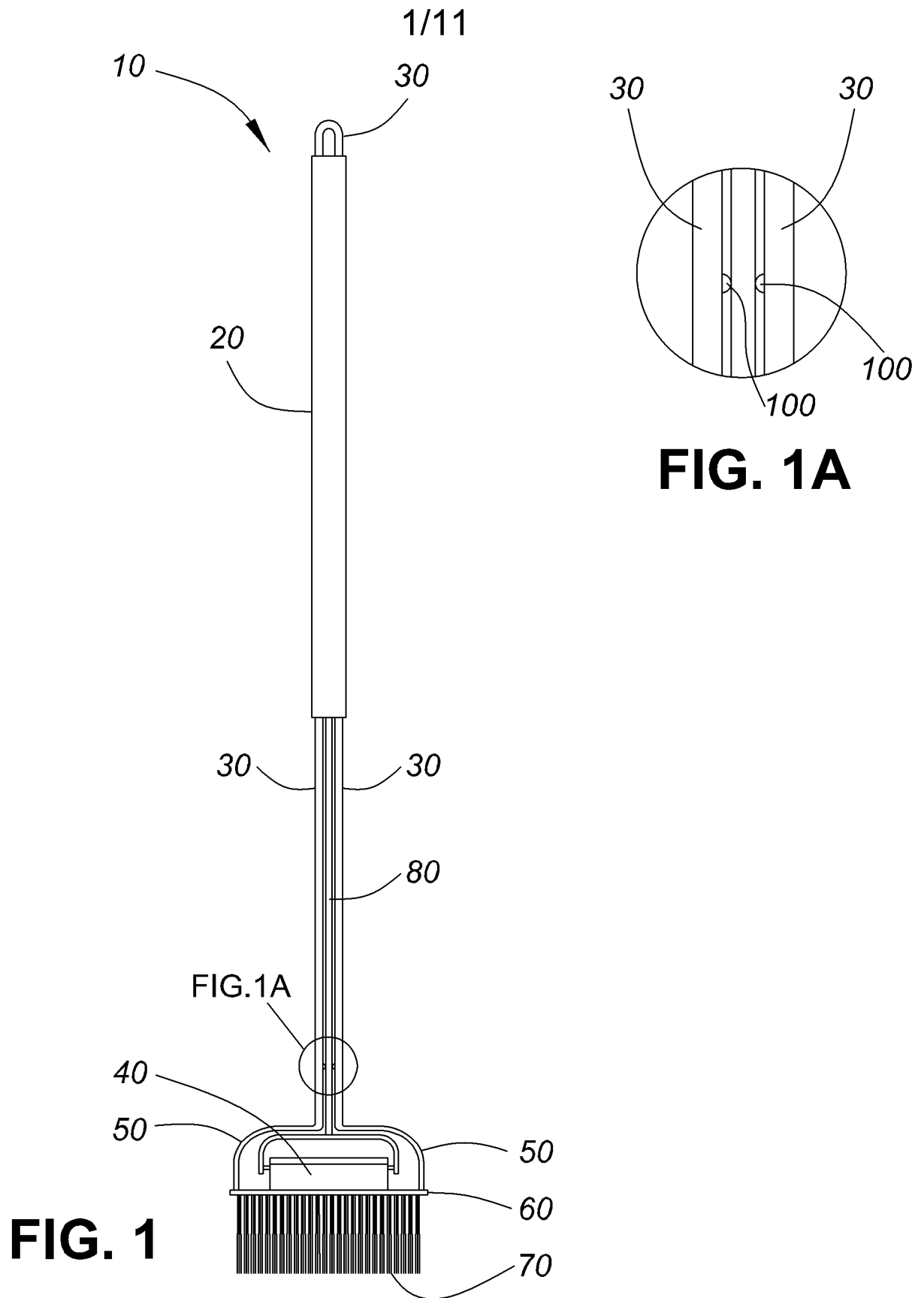
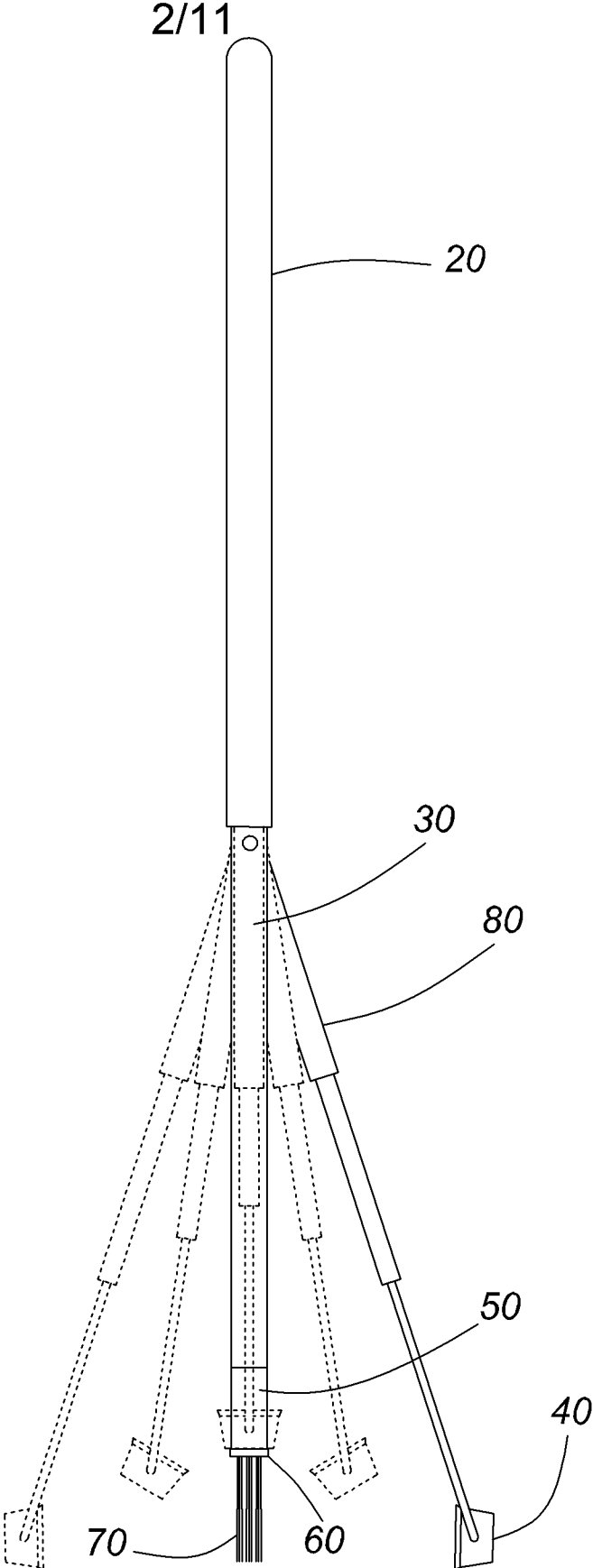


FIG. 2A



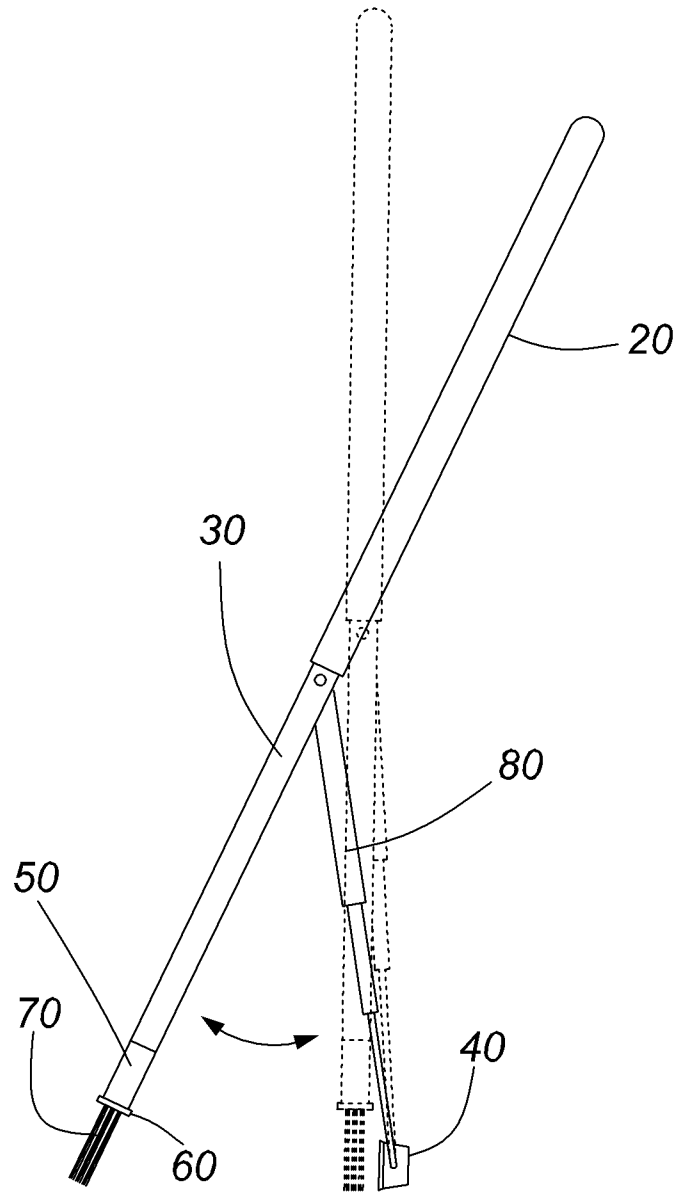


FIG. 2B

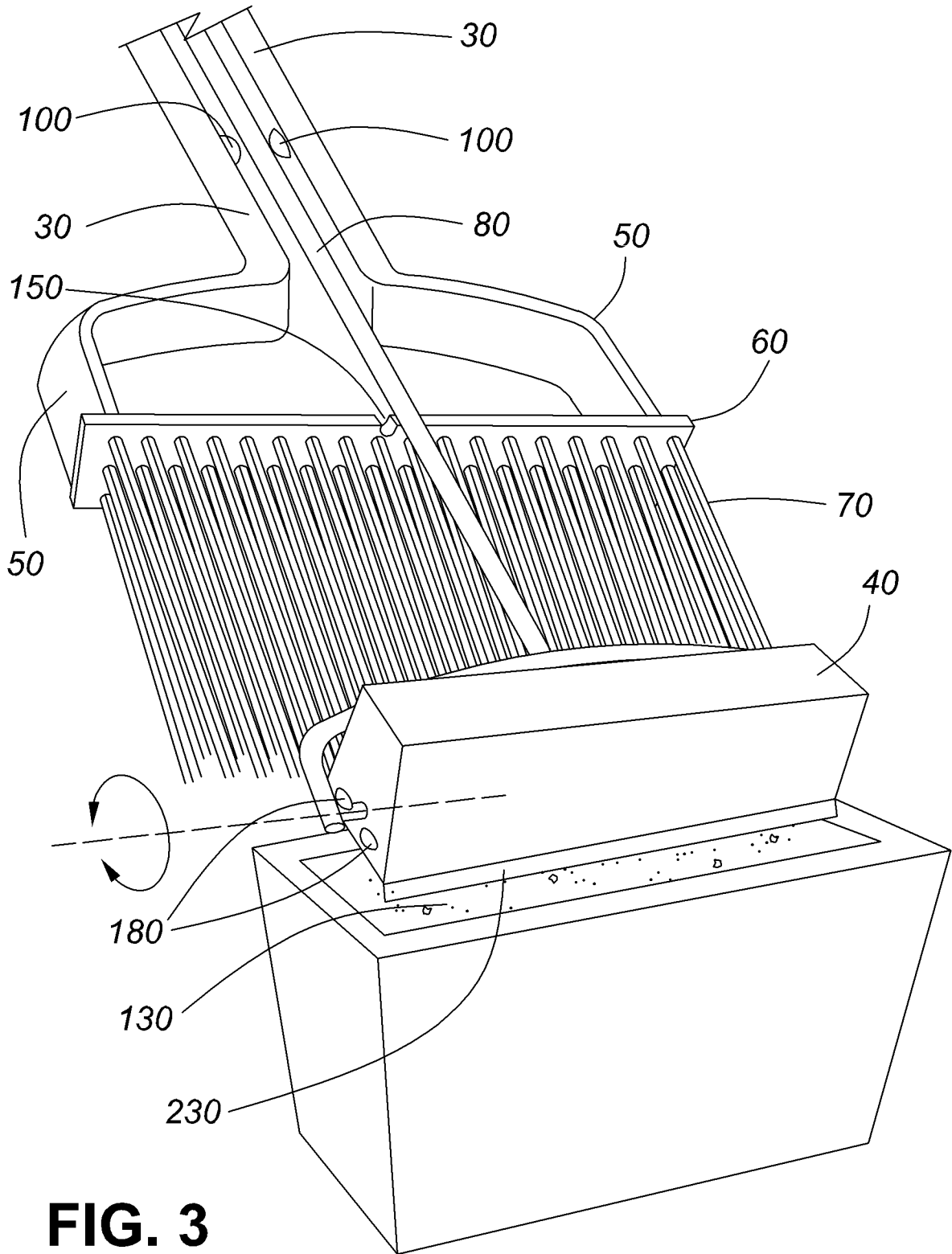


FIG. 3

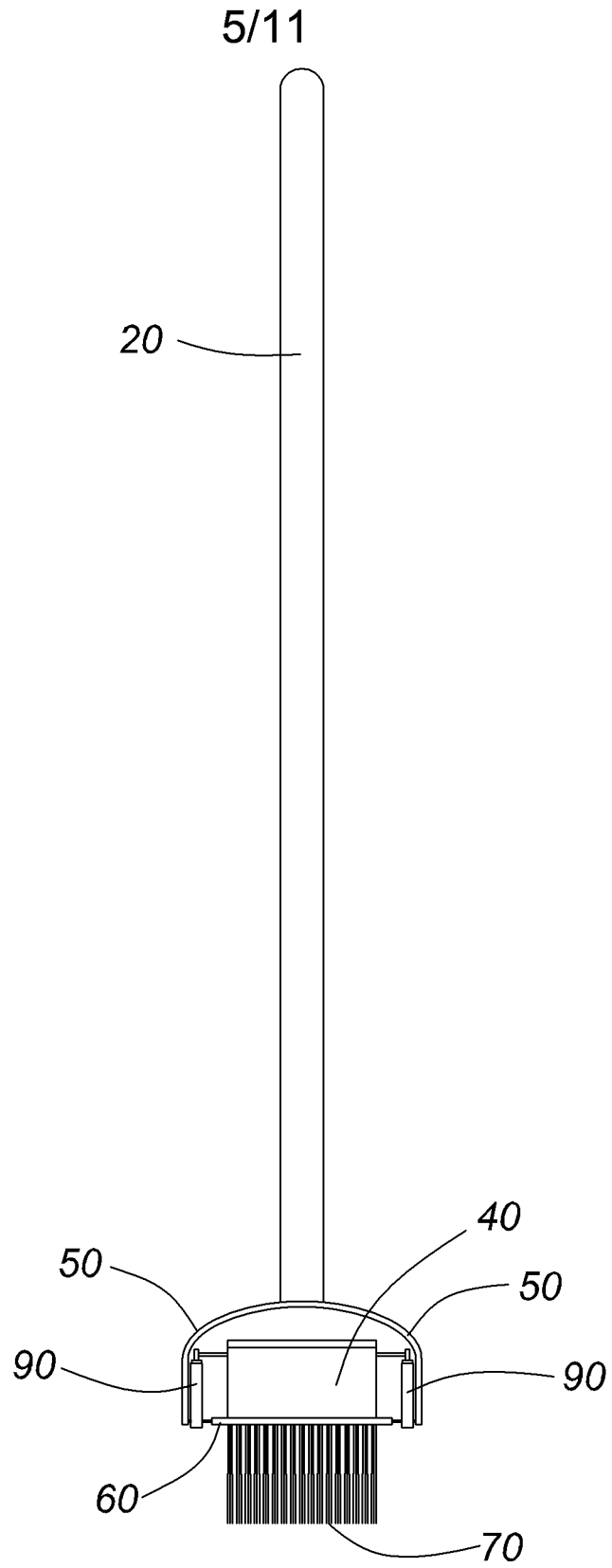


FIG. 4

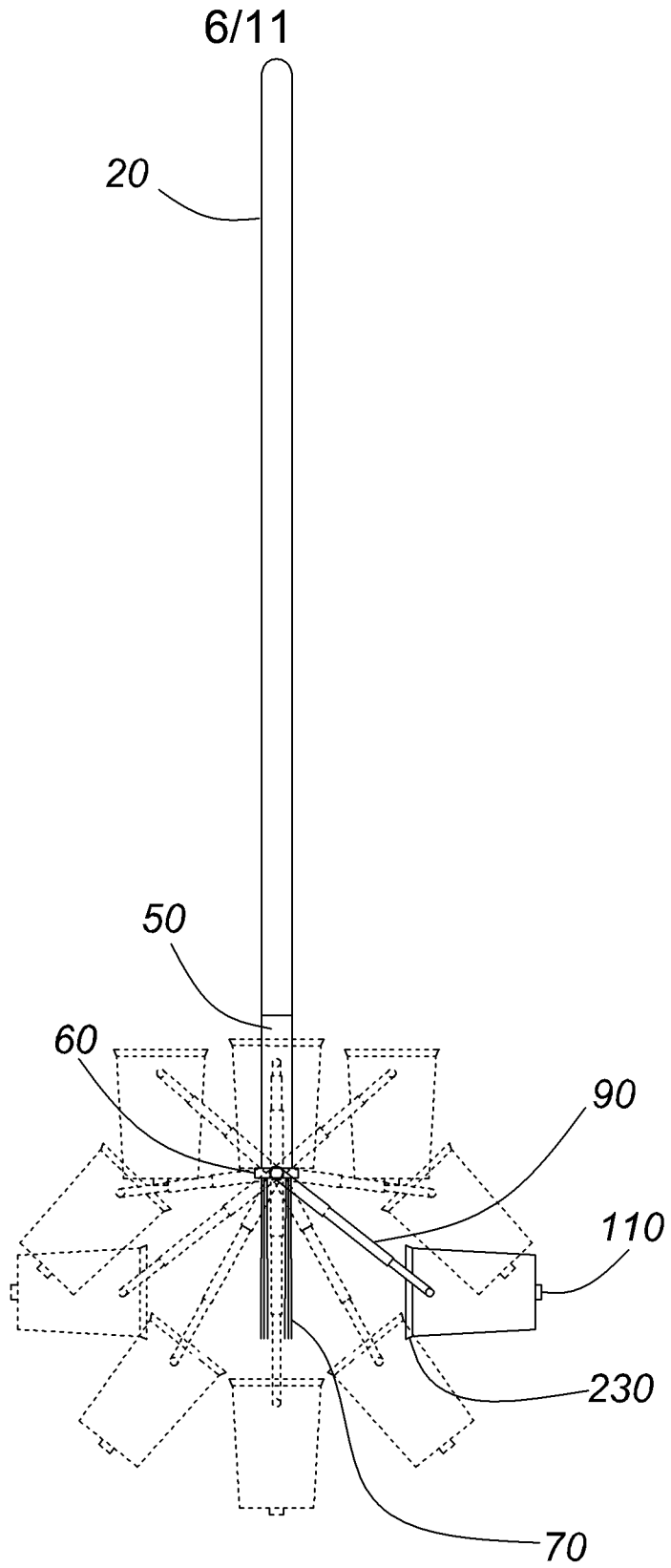


FIG. 5A

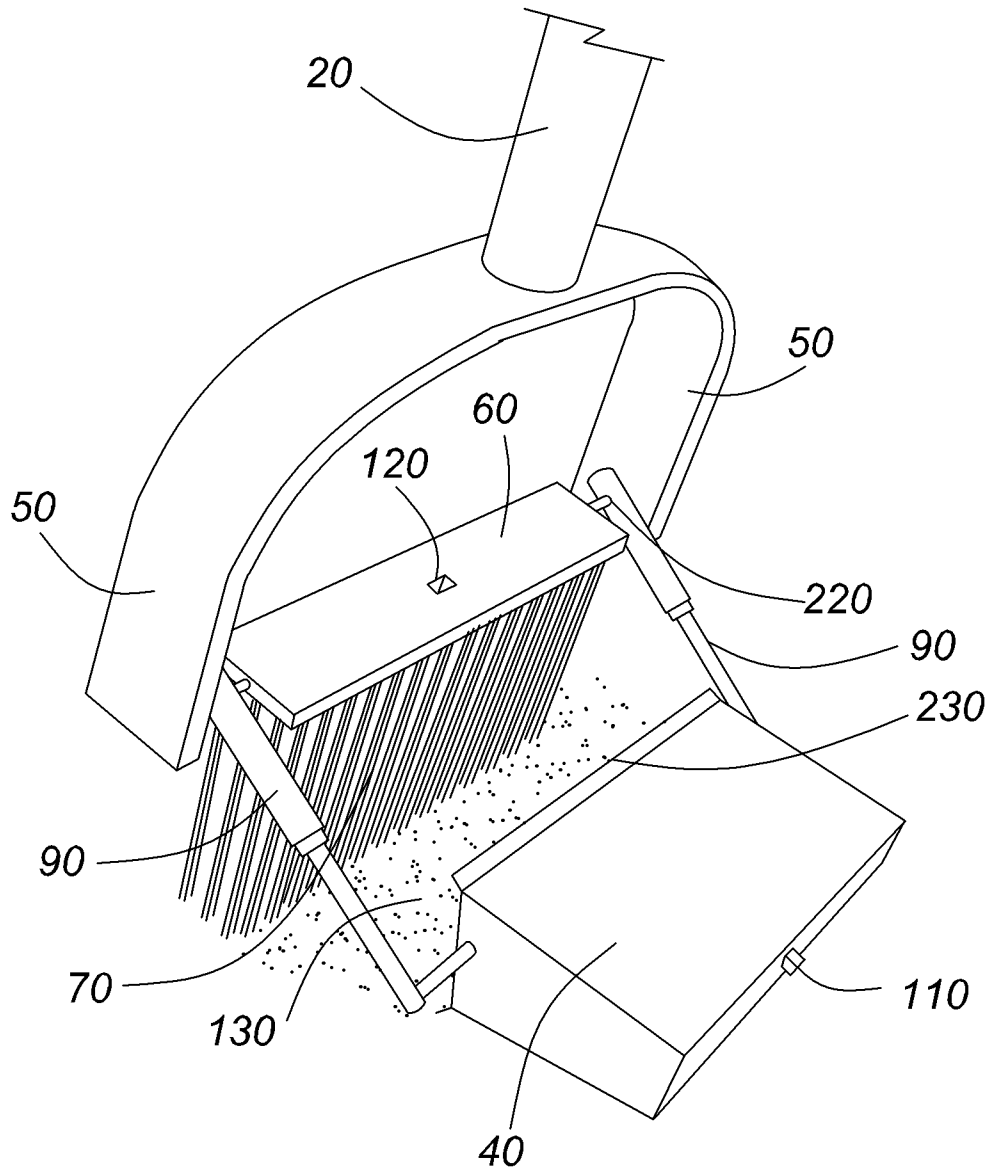


FIG. 5B

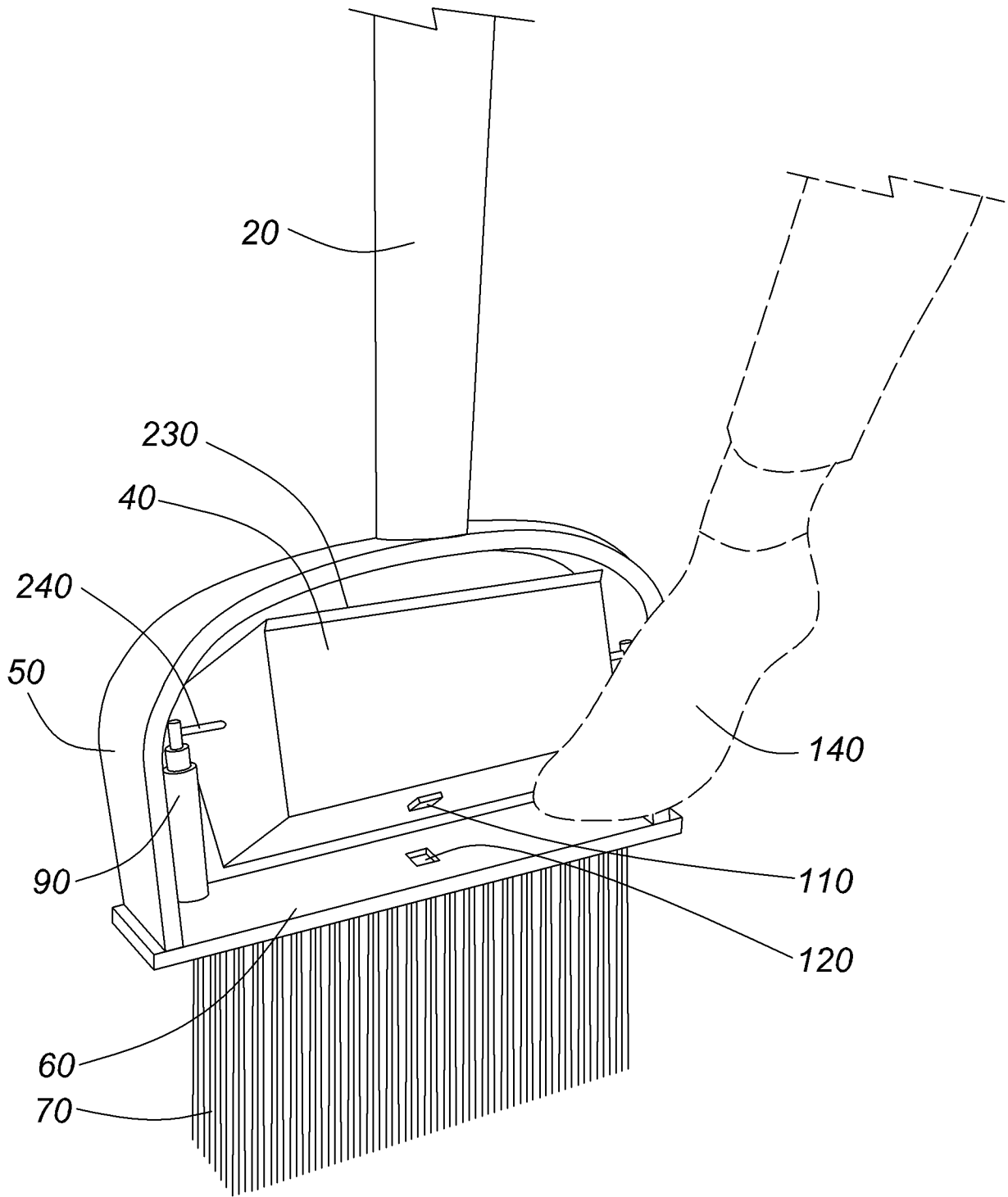


FIG. 6

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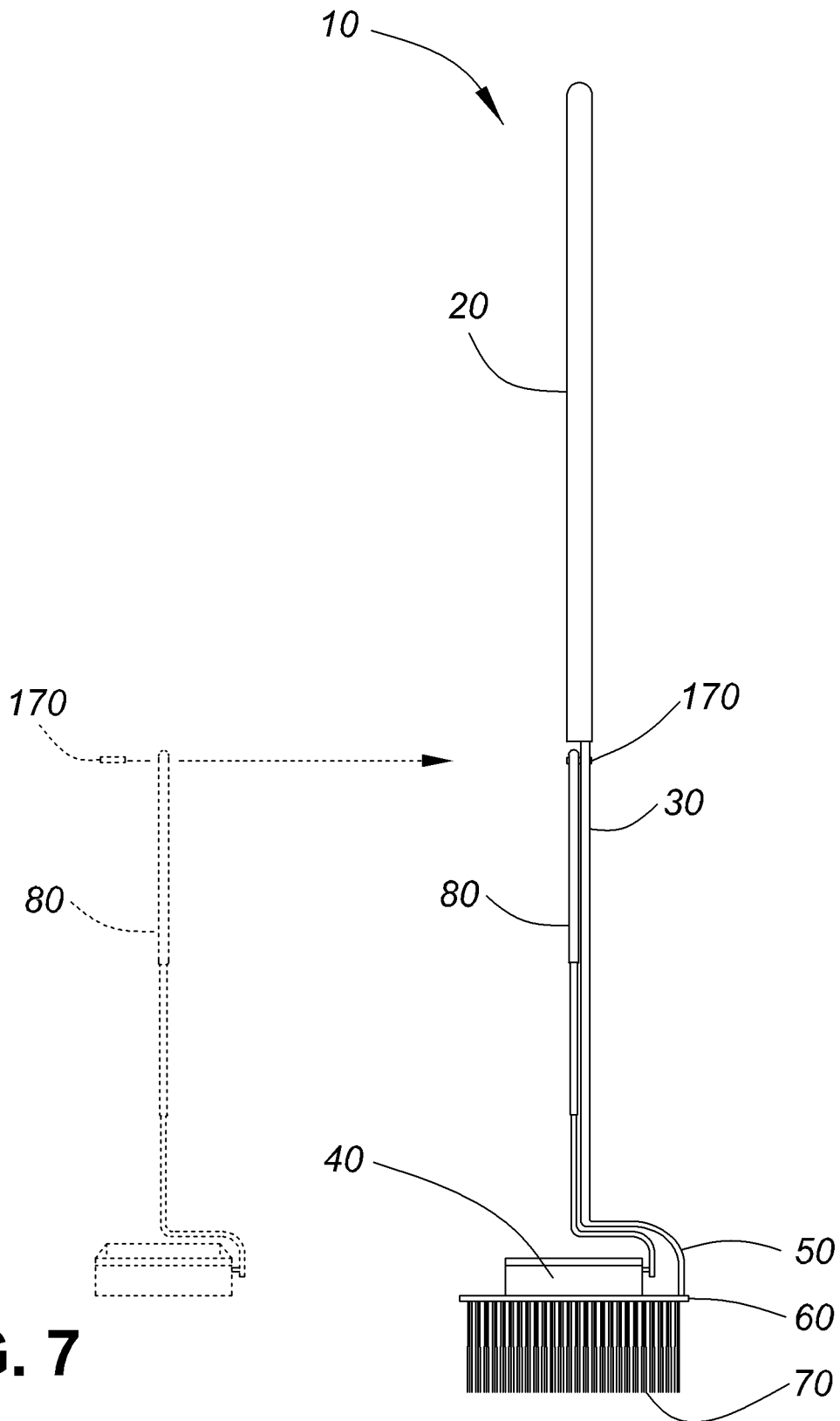


FIG. 7

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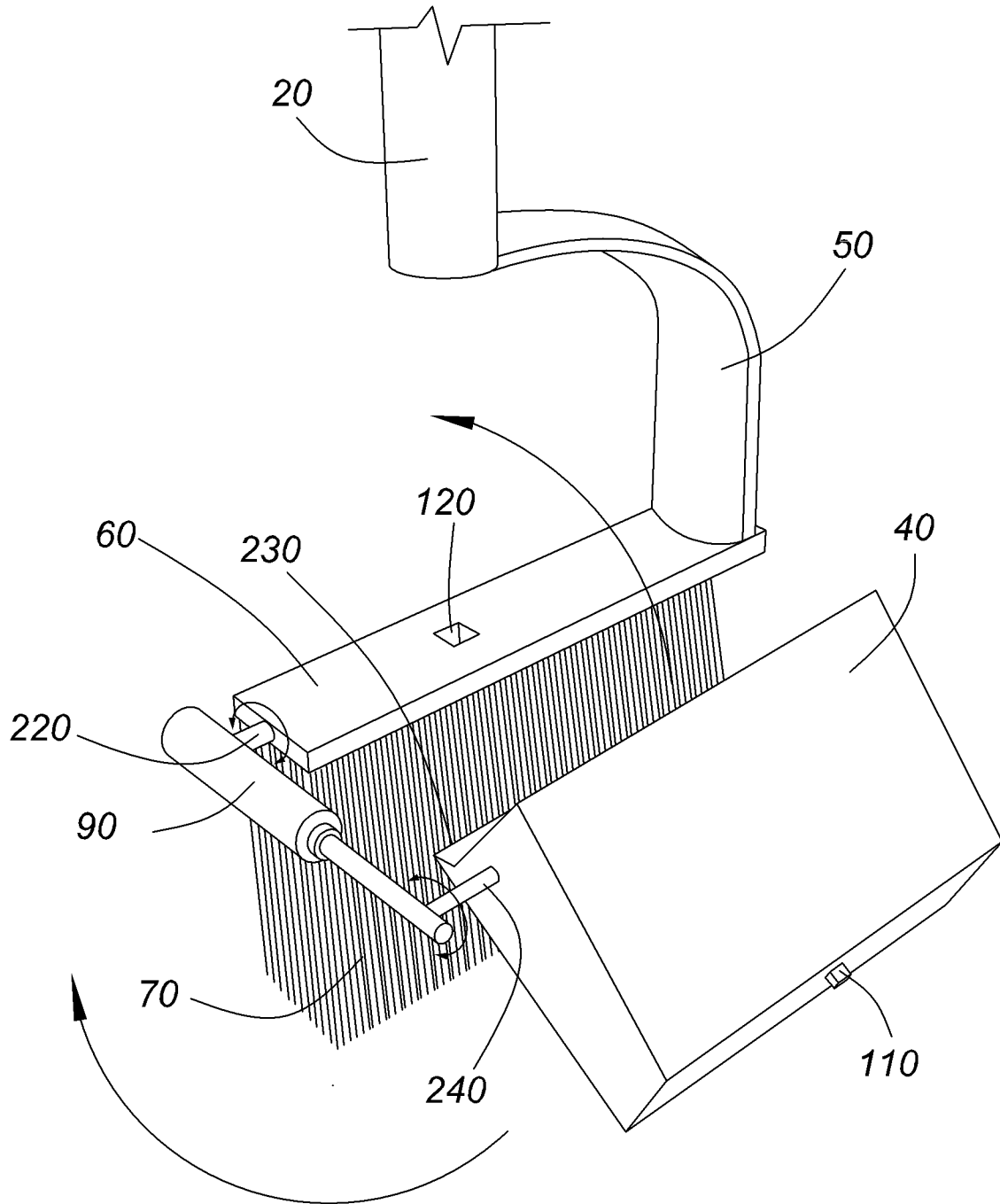


FIG. 8

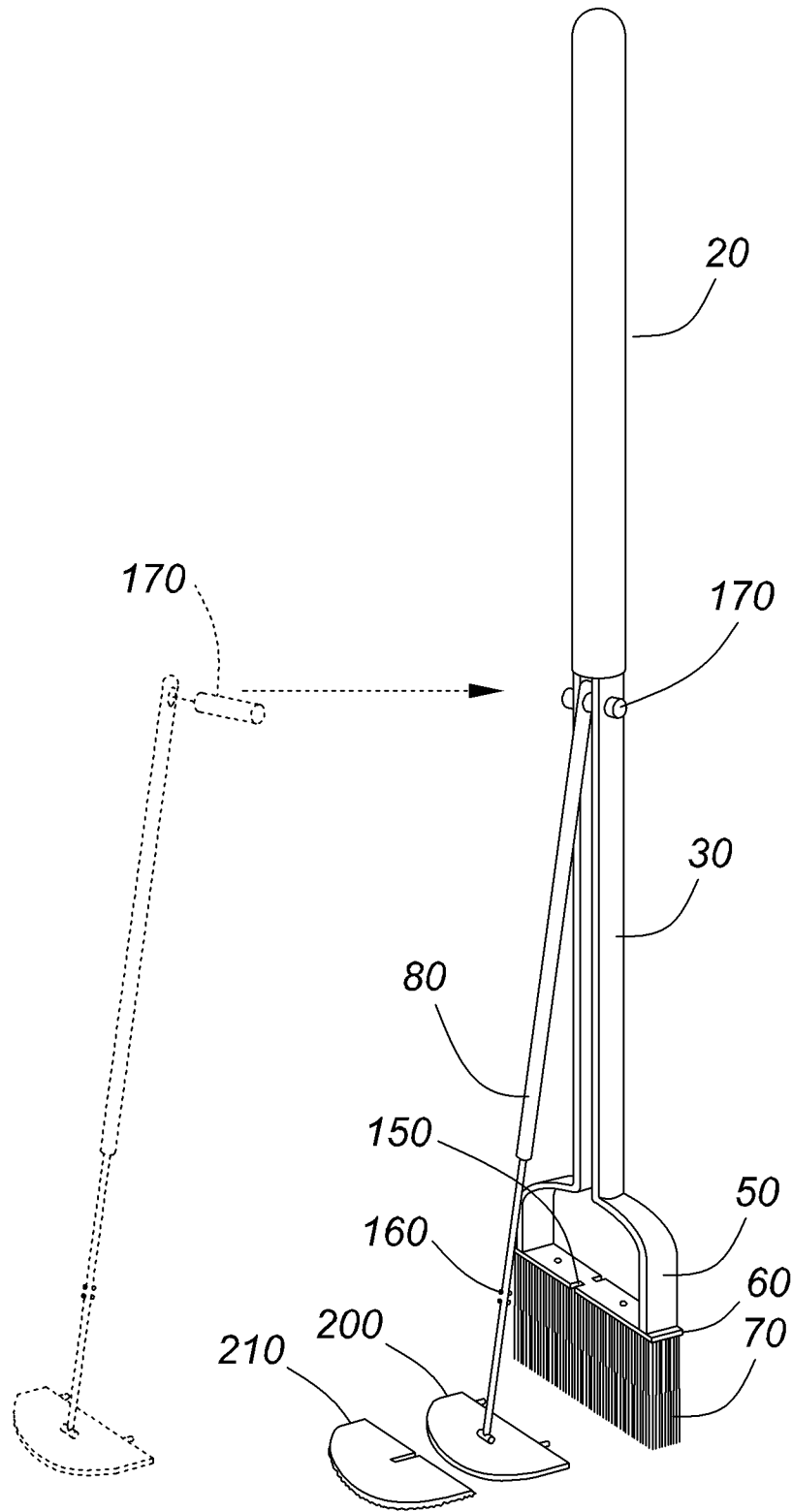


FIG. 9

