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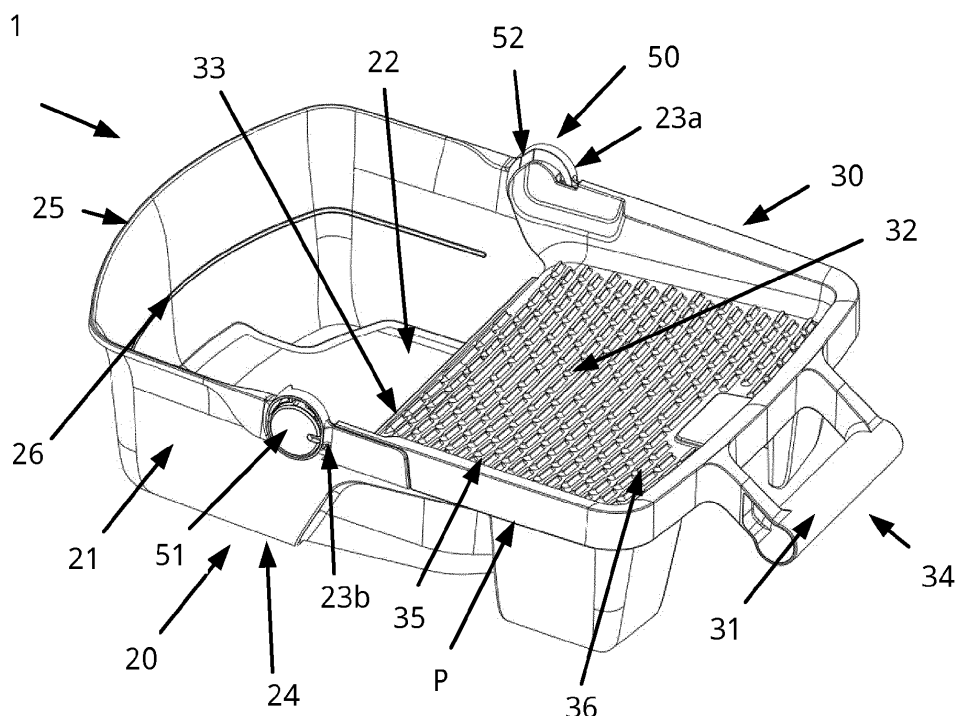
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(54) PAINT ROLLER TRAY

(57) The present invention disclose a paint roller tray (1) comprising a container (20) and a roll off platform (30), wherein the container (20) comprise at least one wall (21) and a bottom (22), the roll off platform (30) comprise a handle (31) and a roll off area (32), the roll off platform (30) is positioned substantially above the con-

tainer (20) and rotatable connected to the container (20) and rotatable moveable between a painting position (P) in which the roll off area (32) is configured to interact with a paint roller (40), and a lifting position (L) in which the paint roller tray (1) is configured to be lifted in the handle (31).

Fig. 1

**EP 3 643 512 A1**

Description

Field of the invention

[0001] The present invention relates to the field of painting and tools for painting. The present invention more especially relates to paint roller trays that is used together with or in combination with a paint roller to apply paint to the paint roller and to roll off paint from the paint roller.

Background of the invention

[0002] A paint roller tray is used when painting with a paint roller and the paint roller tray comprise a container and a roll off area. The painter pours paint from a paint bucket into the container. The painter thereafter dip the paint roller in the paint in the container and roll it against the roll off area. The roll off area is used to get an evenly spread of the paint in the paint roller and that paint should not drip from the paint roller as it is moved from the paint roller tray to the surface that should be painted. Some painters dip the roller directly into the paint bucket and use the roll off area of the paint roller tray to roll off excess paint from the paint roller, which implies many heavy lifts of the heavy paint bucket. When moving the paint roller tray, the painter often grabs a corner of the paint roller tray and lifts it and there is a risk of that paint is spilled. The paint is often spilled due to quick movements of the paint roller tray or that the paint roller tray bends by the weight of the paint as it is moved. Another reason for spillage is that the paint roller tray is moved when the painter press the paint roller against the roll off are. There is thus a need for a paint roller tray that is easy to move and that reduces the risk of paint being spilled. There is also a need for a paint roller tray that can take a larger amount of paint, without increasing the risk of spillage or the complexity of moving the paint roller tray.

Summary of the invention

[0003] An object of the present invention is to provide a paint roller tray, which seek to mitigate, alleviate, or eliminate one or more of the above-identified deficiencies in the art and disadvantages singly or in any combination.

[0004] The inventors have identified that there is a need for a paint roller tray that is easy to move and at the same time can contain more paint than paint roller trays according to prior art.

[0005] In this disclosure, a solution to the problem outlined above is proposed. In the proposed solution, a paint roller tray comprising a container and a roll off platform is disclosed. The container comprise at least one wall and a bottom, the roll off platform comprise a handle and a roll off area, the roll off platform is positioned substantially above the container and rotatable connected to the container and rotatable moveable between a painting position in which the roll off area is configured to interact

with a paint roller, and a lifting position in which the paint roller tray is configured to be lifted in the handle.

[0006] The paint roller tray enables the benefits of having a container that could comprise a large volume of paint and at the same time is easy to move around. This has the advantages of that the paint roller tray does not have to be filled up by the painter that often and at the same time the painter will have the roll off platform close.

[0007] Further, by having a paint roller tray that can be lifted in the handle, it will reduce the risk of that the painter gets paint on his hands and that the tray is tilted when it is lifted and the paint is spilled.

[0008] According to an aspect the roll off platform comprise a first end and a second end that is opposite to the first end, wherein the roll off platform is rotatable connected to the wall at the first end.

[0009] According to an aspect the handle of the roll off platform is positioned at the second end.

[0010] According to an aspect the at least one wall in a lower end is connected to the bottom and that an upper end of the wall that is opposite to the first end define an opening of the container.

[0011] According to an aspect the roll off platform is connected to the container at the upper end of the at least one wall.

[0012] According to an aspect the roll off platform, in the painting position, is arranged to cover at least a part of the opening, preferably between 20-80% of the opening and more preferably 40-60% of the opening.

[0013] According to an aspect the roll off platform is rotatable connected to the at least one wall at two positions of the at least one wall.

[0014] According to an aspect the roll off platform is rotatable connected to the at least one wall at an equilibrium position, such that the container is configured to be kept substantially horizontal when the paint roller tray is lifted in the handle in the lifting position.

[0015] According to an aspect the roll off platform, in the painting position, makes contact with and rest against the at least one wall at one or more contact positions of the roll off platform.

[0016] According to an aspect the roll off area has a shape that is configured to, in the painting position, guide excess paint from a paint roller to the container.

[0017] According to an aspect the roll off platform is further rotatable moveable to an unlocking position, in which unlocking position the paint roller tray is removable from the container.

[0018] According to an aspect the Paint roller tray further comprise at least one attachment means comprising a first part connected to the container and a second part connected to the roll off platform and wherein the attachment means is configured to rotatable connect the container to the roll off platform.

[0019] According to an aspect the container comprise four walls and the roll off platform is rotatable connected to two opposite walls.

[0020] According to an aspect the container has a cy-

lindrical shape and the wall has a ring shape and the roll off platform is rotatable connected at two opposite positions of the wall.

[0021] According to an aspect a circumferential shape of a part of the roll off platform corresponds to a circumferential shape of a part of the opening of the container.

[0022] According to an aspect the roll off platform comprise a second roll off area/surface and the roll off platform is rotatable moveable to a second painting position in which the second roll off area is configured to interact with a paint roller.

[0023] According to an aspect the roll off area has a surface structure that is configured to interact with a first type of paint rollers and the second roll off area has a surface structure that is configured to interact with a second type of paint rollers.

[0024] According to an aspect the roll off platform, in the second painting position, is arranged to cover at least a part of the opening that is different from the part that roll off platform is arranged to cover in the painting position.

[0025] Generally, all terms used in the claims are to be interpreted according to their ordinary meaning in the technical field, unless explicitly defined otherwise herein. All references to "a/an/the [element, device, component, means, etc.]" are to be interpreted openly as referring to at least one instance of said element, device, component, means, etc., unless explicitly stated otherwise. Further, by the term "comprising" it is meant "comprising but not limited to" throughout the application.

Brief description of the drawings

[0026] The foregoing will be apparent from the following more particular description of the example embodiments and aspects, as illustrated in the accompanying drawings in which like reference characters refer to the same parts throughout the different views. The drawings are not necessarily to scale, emphasis instead being placed upon illustrating the example embodiments and aspects.

Figure 1 discloses a schematic perspective view of a paint roller tray with the roll off platform in a painting position.

Figure 2 discloses a schematic perspective view of a paint roller tray with the roll off platform in a lifting position.

Figure 3 discloses a schematic cross sectional view of a paint roller tray comprising paint with the roll off platform in a painting position and a paint roller.

Figure 4 discloses a schematic cross sectional view of a paint roller tray comprising paint with the roll off platform in a lifting position and a paint roller.

Figure 5 discloses a schematic cross sectional view of a paint roller tray with the roll off platform in an unlocking position.

Figure 6 discloses a schematic cross sectional view

of a paint roller tray with the roll off platform in a detached position.

Detailed description

[0027] The present invention will now be described more fully hereinafter with reference to the accompanying drawings, in which exemplary embodiments and aspects of the invention are shown. The invention may, however, be embodied in many different forms and should not be construed as limited to the embodiments and aspects set forth herein; rather, these embodiments and aspects are provided for thoroughness and completeness. Like reference characters refer to like elements throughout the description. The drawings are not necessarily to scale and certain features may be exaggerated in order to better illustrate and explain the exemplary embodiments of the present invention.

[0028] The terminology used herein is for the purpose of describing particular aspects of the disclosure only, and is not intended to limit the disclosure. As used herein, the singular forms "a", "an" and "the" are intended to include the plural forms as well, unless the context clearly indicates otherwise.

[0029] In some implementations and according to some aspects of the disclosure, the functions or steps in the method can occur out of the order noted in the operational illustrations. For example, two steps shown in succession can in fact be executed substantially concurrently or the steps can sometimes be executed in the reverse order, depending upon the functionality/acts involved.

[0030] Unless otherwise defined, all terms (including technical and scientific terms) used herein have the same meaning as commonly understood by one of ordinary skill in the art to which this disclosure belongs. It will be further understood that terms used herein should be interpreted as having a meaning that is consistent with their meaning in the context of this specification and the relevant art and will not be interpreted in an idealized or overly formal sense unless expressly so defined herein.

[0031] In figure 1 and 2, to which now is referred to, disclose a paint roller tray 1. The paint roller tray 1 comprise a container 20 and a roll off platform 30.

[0032] The container 20 is configured for receiving and hold paint 60, see figure 3 and 4. The container 20 comprise at least one wall 21 and a bottom 22. The wall 21 and the bottom 22 define a volume 27 that is open in one end. The volume 27 is configured to receive and hold the paint 60. The wall 21 comprise a lower end 24 and an upper end 25. The lower end 24 is opposite to the upper end 25. The lower end 24 is connected to the bottom 22.

[0033] According to an aspect the lower end 24 is connected to the bottom 22. The upper end 25 of the wall 21 define an opening 26 of the container 20. The circumferential shape of the upper end of the wall 21 define the shape of the opening 26. The volume 27 of the container is accessible through the opening 26. When paint 60 should be poured into the container, it is poured via the

opening 26. When a painter should dip a paint roller 40 in paint 60 in the container 20, the paint roller 40 is entered into the container 20 via the opening 26.

[0034] According to an aspect the container 20 comprise two or more walls 21. Each wall 21 is connected to the bottom 22 and to another wall 21 to define the container 20. According to an aspect the wall 21 have a circular shape. The shape of the upper end 25 define the shape of the opening 26. According to an aspect the opening 25 have a rectangular shape. According to an aspect the opening 25 have a circular shape. According to an aspect the opening 25 have a square shape.

[0035] According to an aspect the container 20 has a cylindrical shape and the wall 21 has a ring shape. According to an aspect the container 20 has a rectangular shape.

[0036] The roll off platform 30 comprise a handle 31 and a roll off area 32.

[0037] The roll off platform 30 comprise a first end 33 and a second end 34. The first end 33 is opposite to the second end 34. The roll off platform 30 is positioned substantially above the container 20, as is shown in fig 3 and 4. The roll off area 32 is positioned at the first end 33. The handle 31 is positioned at the second end 34. The handle 31 is connected to the roll off area 32. The roll off area 32 extend in a plane. A first end of the roll off area 32 is directed towards the first end of the roll off platform 32. The roll off area 32 comprise ridges 35 and valleys 36. The ridges 35 and valleys 36 are configured to interact with the paint roller 40.

[0038] The roll off platform 30 is rotatable connected to the container 20. According to an aspect the roll off platform 30 is connected to the wall 21. According to an aspect the roll off platform 30 is rotatable connected to the wall 21 at the first end 33. According to an aspect the roll off platform 30 is rotatable connected to the at least one wall 21 at two positions 23a, 23b of the wall 21. According to an aspect the roll off area 31 of roll off platform 30 is rotatable connected to the container 20 in a first and a second position 23a, b.

[0039] According to an aspect the roll off platform 30 is rotatable connected to the at least one wall 21 at an equilibrium position 23a, 23b. The equilibrium position 23a, 23b enables that the paint roller tray 1 can be lifted upwards without the container 20 is tilted, even if it filled with paint 60. The container 20 is configured to be kept substantially horizontal when the paint roller tray 1 is lifted in the handle 31 in the lifting position L, as is disclosed in fig 2 and 4. Put in another way, the roll off platform 30 is connected to the container 20 in a way that is similar to the way that a handle is connected to a bucket such that the bucket can be lifted with liquid in it.

[0040] According to an aspect the roll off platform 30 is substantial parallel with the opening 26 in the painting position P, as is disclosed in fig 1 and 3. According to an aspect the roll off platform 30 is substantial perpendicular in view of the opening 26 in the lifting position L.

[0041] According to an aspect the volume of the con-

tainer 20 is equal on both sides of the positions 23a, b that the roll off platform 30 is connected to the container 20. By having an equal volume, the weight of the container 20 and the paint 60 in the container 20 will be substantially equal on both sides of the roll off platform 30, such that the container 20 will be at an equilibrium when it is lifted in the lifting position L.

[0042] According to an aspect the roll off area 31 is tilted/angled in view of the container 20 when the roll off platform 30 is in the painting position P, such that paint 60 on the roll off area 31 flows towards the first end 33 of the roll off platform 30 and drip back into the container 20. According to an aspect the roll off area 31 is angled 1-10% in relation to the container 20. According to an aspect the roll off area 31 is angled 1-30% in relation to the container 20. The angle of the roll off area 31 is defined as the angle of the roll off area 32 in relation to the surface of paint in the container 20 when the container 20 is placed on a horizontal surface.

[0043] According to an aspect the roll off area 31 is positioned partly above the volume 27 of the container 20.

[0044] According to an aspect the container comprise four walls 21 and the roll off platform 30 is rotatable connected to two opposite walls 21. According to an aspect the container 20 has a cylindrical shape and the wall 21 has a ring shape. The roll off platform 30 is rotatable connected at two opposite positions of the ring shaped wall 21.

[0045] According to an aspect the opening 26 have a rectangular shape and the roll off platform 30 is rotatable connected at two opposite positions of the wall 21.

[0046] The handle 32 is configured to be gripped by a user. The handle 31 is connected to the roll off area 31. According to an aspect the handle 32 is positioned at the second end 34 of the roll off platform 20. According to an aspect the handle 32 extend outside the opening 26 of the container 20 when the roll off platform 30 is positioned in the painting position P. In the painting position P the user can grab the handle 32 without the risk of dipping the hand in the paint 60 in the container 20 or on the roll off area 31.

[0047] The roll off area 31 is configured to interact with the paint roller 40. The roll off area 31 evens out the paint 60 in the paint roller 40 after the paint roller 40 has been dipped in paint 60, as is disclosed in fig 4, in the container 20 and is rolled back and forward on the roll off area 31, as is disclosed by the arrows in fig 3.

[0048] According to an aspect the paint roller tray 1 further comprise at least one attachment means 50. The attachment means comprise a first part 51 and a second part 52. The first part 51 is connected to the container 20. The second part 52 is connected to the roll off platform 30. The first part 51 is connected to the second part 52. The attachment means 50 is configured to rotatable connect the container 20 and the roll off platform 30. In the lifting position L and in the painting position P the first and second part 51, 52 is rotatable lock towards each other, as is disclosed in fig 1-4. Put in another way, the

first and the second part 51, 52 could be rotated in relation to one another, when the roll off platform 30 is moved between the lifting position L and the painting position P, but not moved apart from each other.

[0049] According to an aspect the roll off platform 30 is further moveable to an unlocking position U, as disclosed in fig 5, in which unlocking position U the paint roller tray 1 is removable from the container 20 to a detached position D, as is disclosed in fig 6. According to an aspect the first and second part 51, 52 of the attachment means 50 is in the unlocking position U positioned in relation to each other in a way that they could be disconnected from each other. As the first and second part 51, 52 is disconnected, the roll off platform 30 is disconnected from the container 20. The container 20 and the roll off platform 30 is easy to clean when they are disconnected from each other in the disconnected position D, as shown in fig 6.

[0050] The roll off platform 30 are rotatable moveable between a painting position P and a lifting position L. In the painting position P, the roll off area 32 is positioned such that it is configured to interact with a paint roller 40. In the lifting position L, the paint roller tray 1 is configured to be lifted in the handle 31. The roll off platform 30 is configured to be moved between the painting position P and the lifting position L by a user of the paint roller tray 1.

[0051] According to an aspect the roll off area 32 is angled in in relation to the container in the painting position P, such that paint on the roll off area 32 flows towards the first end 33 and drips in to the container. According to an aspect the roll off area 31 has a shape that is configured to guide excess paint 60 from a paint roller 40 to the container 20 in the painting position P.

[0052] According to an aspect the roll off platform 30 is in the painting position P arranged to cover at least a part of the opening 26. According to an aspect the roll off platform 30 is in the painting position P arranged to cover 20-80% of the opening 26. According to an aspect the roll off platform 30 is in the painting position P arranged to cover 40-60% of the opening 26.

[0053] According to an aspect the roll off platform 30 makes contact with and rest against the at least one wall 21 in the painting position P. According to an aspect the roll off platform 30 makes contact with and rest against the at least one wall 21 at one or more contact positions of the roll off platform 30. According to an aspect the roll off platform 30 makes contact with and rest against the top 25 of the wall 21 of the roll off platform 30. This make the paint roller tray 1 more stable when a painter is pressing the paint roller 40 against the roll of area 31.

[0054] According to an aspect the roll off platform 30 is configured as a lid to the container that covers a part of the opening 26 in the painting position P.

[0055] According to an aspect a circumferential shape of a part of the roll off platform 30 corresponds to a circumferential shape of a part of the opening 26 of the container 20.

[0056] According to an aspect the roll off platform 30

is positioned substantially above the container 20 and rotatable connected to the at least one wall 21.

[0057] Hereafter the use of the paint roller tray 1 is described. As a user/painter should paint a surface with the paint roller 40, he has a bucket of paint, the paint roller 40 and the paint roller tray 1. The bucket of paint is opened and the paint is mixed and thereafter an amount of paint 60 is poured into the container 20 of the paint roller tray 1. The paint 60 is poured through the opening 26 into the container 20 and fills up part of the volume 27 of the container 20. The roll off platform 30 could be positioned in either the painting position P or the lifting position L when the container 20 is filled with paint 60.

[0058] The user thereafter moves the paint roller tray 1 closer to the area where the actual painting should be made. The user moves the paint roller tray 1 by gripping the handle 31 and rotating the roll off platform 30 to the lifting position L. In the lifting position the user lifts the paint roller tray 1 in the direction of arrow A in fig 4 and paint 60 contained in the container 20. As the roll off platform 30 is positioned at equilibrium positions 23a, 23b at the container 20, the container 20 will not tilt or shear by the weight of the paint 60 when the paint roller tray 1 is moved. The user set down the paint roller tray 1 close to the area that should be painted. The roll off platform 30 is moved by rotating it from the lifting position L to the painting position P. In the painting position P the user dip the paint roller 40 in the paint and rolls off excessive paint 60 and even out the paint 60 by rolling it against the roll off area 32. The user thereafter paint the intended surface with the paint roller 40 and repeat the process off dipping the paint roller 40 in the paint in the container 20 and moves the paint roller tray 1 by the handle 31 until the paint 60 in the container 20 is used or until the surface is painted. As the paint roller tray 1 can be configured to contain more paint in the container 20 without the risk of spillage of paint is increased, the user can paint a larger area until the container needs to be filled up with more paint.

[0059] According to an aspect the roll off platform 30 comprise a second roll off area/surface 35 and the roll off platform is rotatable moveable to a second painting position P2 in which the second roll off area 32 is configured to interact with a paint roller 40. The second roll off area 32 is positioned on an opposite side of the roll off platform than the roll off area 32.

[0060] According to an aspect the roll off area 31 has a surface structure that is configured to interact with a first type of paint rollers 40 and the second roll off area 35 has a surface structure that is configured to interact with a second type of paint rollers 40.

[0061] According to an aspect the roll off platform 30, in the second painting position, is arranged to cover at least a part of the opening 26 that is different from the part that roll off platform 30 is arranged to cover in the painting position.

[0062] The person skilled in the art realizes that the

present invention by no means is limited to the preferred embodiments described above. On the contrary, many modifications and variations are possible within the scope of the appended claims.

[0063] The description of the aspects of the disclosure provided herein has been presented for purposes of illustration. The description is not intended to be exhaustive or to limit aspects of the disclosure to the precise form disclosed, and modifications and variations are possible in light of the above teachings or may be acquired from practice of various alternatives to the provided aspects of the disclosure. The examples discussed herein were chosen and described in order to explain the principles and the nature of various aspects of the disclosure and its practical application to enable one skilled in the art to utilize the aspects of the disclosure in various manners and with various modifications as are suited to the particular use contemplated. The features of the aspects of the disclosure described herein may be combined in all possible combinations of methods, apparatus, modules, systems, and computer program products. It should be appreciated that the aspects of the disclosure presented herein may be practiced in any combination with each other.

[0064] It should be noted that the word "comprising" does not necessarily exclude the presence of other elements or steps than those listed. It should further be noted that any reference signs do not limit the scope of the claims.

Claims

1. A Paint roller tray (1) comprising a container (20) and a roll off platform (30), wherein
 - the container (20) comprise at least one wall (21) and a bottom (22),
 - the roll off platform (30) comprise a handle (31) and a roll off area (32),
 - the roll off platform (30) is positioned substantially above the container (20) and rotatable connected to the container (20) and rotatable moveable between
 - a painting position (P) in which the roll off area (32) is configured to interact with a paint roller (40), and
 - a lifting position (L) in which the paint roller tray (1) is configured to be lifted in the handle (31).
2. The Paint roller tray (1) according to claim 1, wherein the roll off platform comprise a first end (33) and a second end (34) that is opposite to the first end (33), wherein the roll off platform (30) is rotatable connected to the wall (21) at the first end (33).
3. The Paint roller tray (1) according to claim 2, wherein the handle (32) of the roll off platform (30) is positioned at the second end (34).
4. The Paint roller tray (1) according to any of the preceding claims, wherein the at least one wall (21) in a lower end (24) is connected to the bottom (22) and that an upper end (25) of the wall (21) that is opposite to the first end (24) define an opening (26) of the container (20).
5. The Paint roller tray (1) according to claim 4, wherein the roll off platform (30) is connected to the container (20) at the upper end (24) of the at least one wall (21).
6. The Paint roller tray (1) according to claim 4 or 5, wherein the roll off platform (30), in the painting position (P), is arranged to cover at least a part of the opening (26), preferably between 20-80% of the opening and more preferably 40-60% of the opening (26).
7. The Paint roller tray (1) according to any of the preceding claims, wherein the roll off platform (30) is rotatable connected to the at least one wall (21) at two positions (23a, 23b) of the at least one wall (21)
8. The Paint roller tray (1) according to any of the preceding claims, wherein the roll off platform (30) is rotatable connected to the at least one wall (21) at an equilibrium position (23a, 23b), such that the container is configured to be kept substantially horizontal when the paint roller tray (1) is lifted in the handle (31) in the lifting position (L).
9. The Paint roller tray (1) according to any of the preceding claims, wherein the roll off platform (30), in the painting position (P), makes contact with and rest against the at least one wall (21) at one or more contact positions of the roll off platform (30).
10. The Paint roller tray (1) according to any of the preceding claims, wherein the roll off area (31) has a shape that is configured to, in the painting position (P), guide excess paint from a paint roller to the container
11. The Paint roller tray (1) according to any of the preceding claims, wherein the roll off platform (30) is further rotatable moveable to an unlocking position (U), in which unlocking position (U) the paint roller tray (1) is removable from the container (20).
12. The Paint roller tray (1) according to any of the preceding claims, further comprising at least one attachment means (50) comprising a first part (51) connected to the container (20) and a second part (52) connected to the roll off platform (30) and wherein

the attachment means (50) is configured to rotatable connect the container (20) to the roll off platform (30).

13. The Paint roller tray (1) according to any of the preceding claims, wherein the container comprise four walls (21) and the roll off platform (30) is rotatable connected to two opposite walls (21). 5
14. The Paint roller tray (1) according to any of claims 1-12, wherein the container has a cylindrical shape and the wall (21) has a ring shape and the roll off platform (30) is rotatable connected at two opposite positions of the wall (21). 10
15. The Paint roller tray (1) according to any of claims 4-14, wherein a circumferential shape of a part of the roll off platform (30) corresponds to a circumferential shape of a part of the opening (26) of the container (20). 15
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16. The Paint roller tray (1) according to any of the preceding claims, wherein the roll off platform (30) comprise a second roll off area/surface (35) and the roll off platform is rotatable moveable to a second painting position (P2) in which the second roll off area (32) is configured to interact with a paint roller (40). 25
17. The Paint roller tray (1) according to claim 16, wherein the roll off area (31) has a surface structure that is configured to interact with a first type of paint rollers (40) and the second roll off area (35) has a surface structure that is configured to interact with a second type of paint rollers (40). 30
18. The Paint roller tray (1) according to any of claims 6 or 17, wherein the roll off platform (30), in the second painting position (P2), is arranged to cover at least a part of the opening (26) that is different from the part that roll off platform (30) is arranged to cover in the painting position (P). 35
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Fig. 1

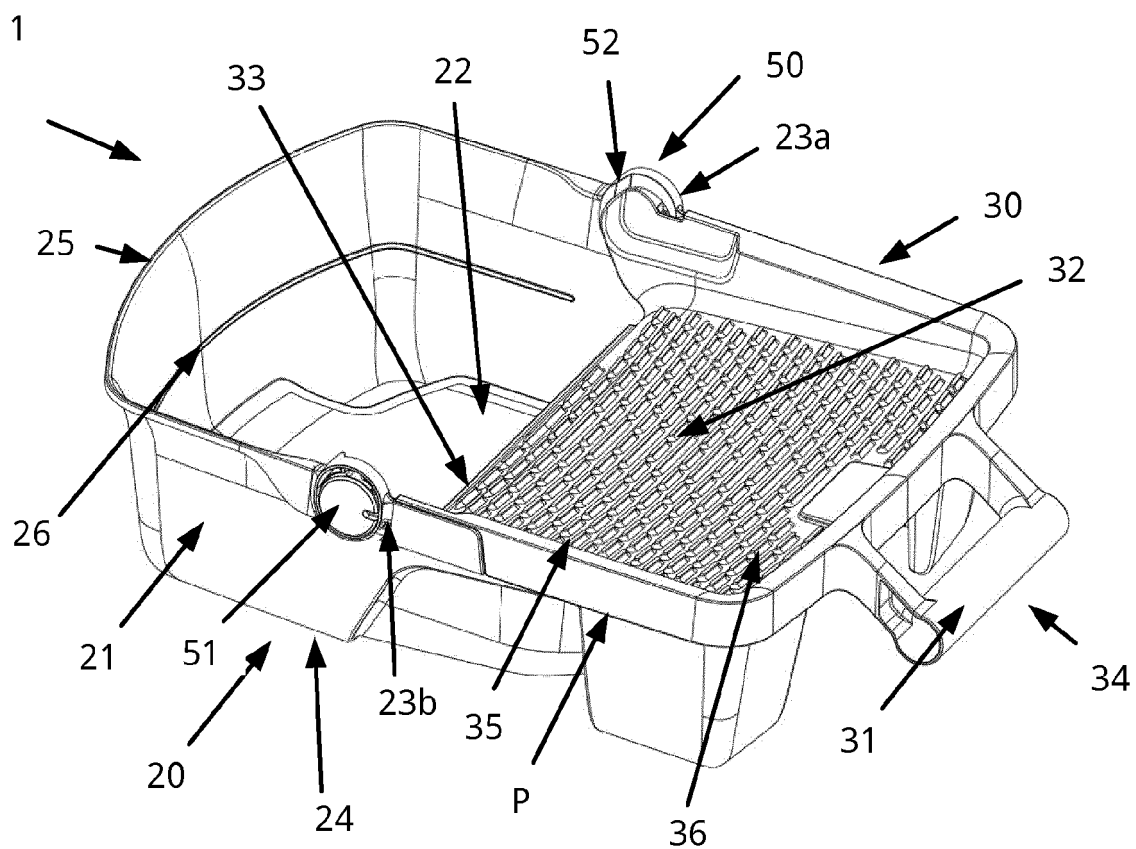


Fig. 2

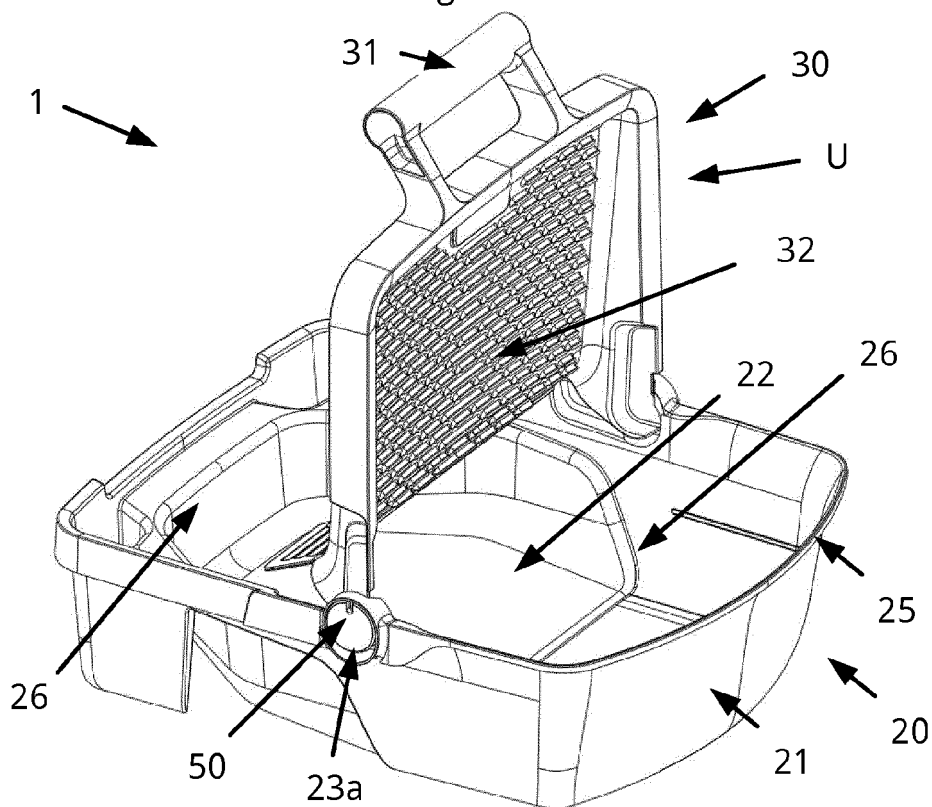


Fig. 3

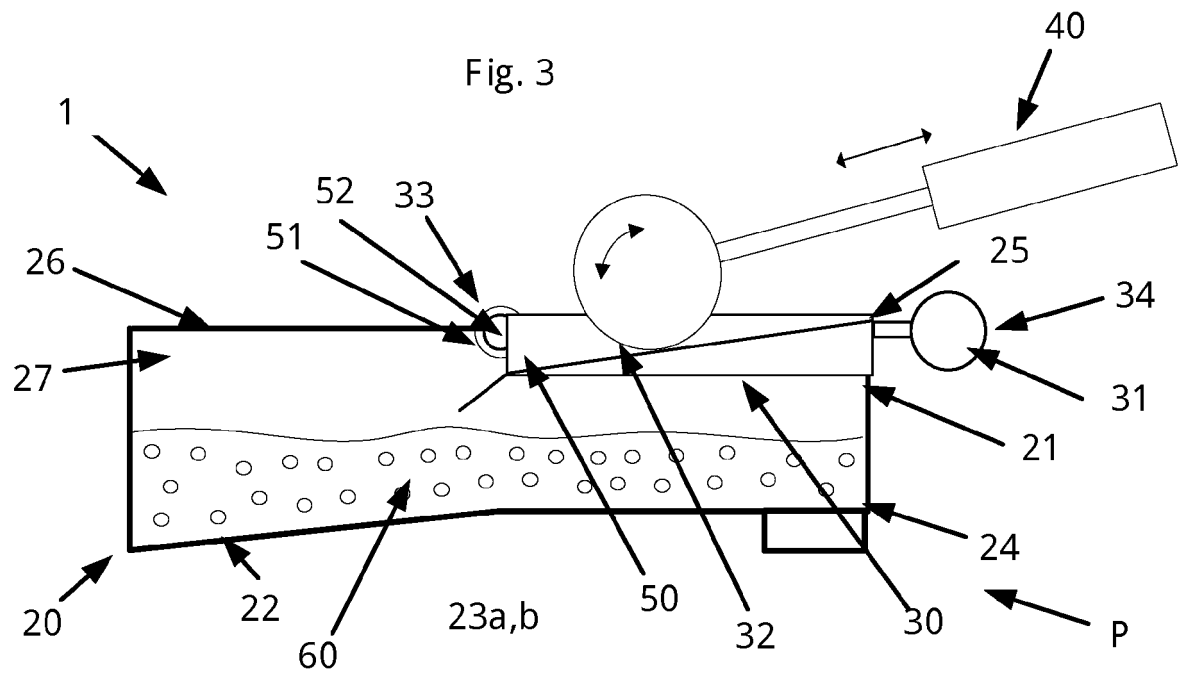


Fig. 4

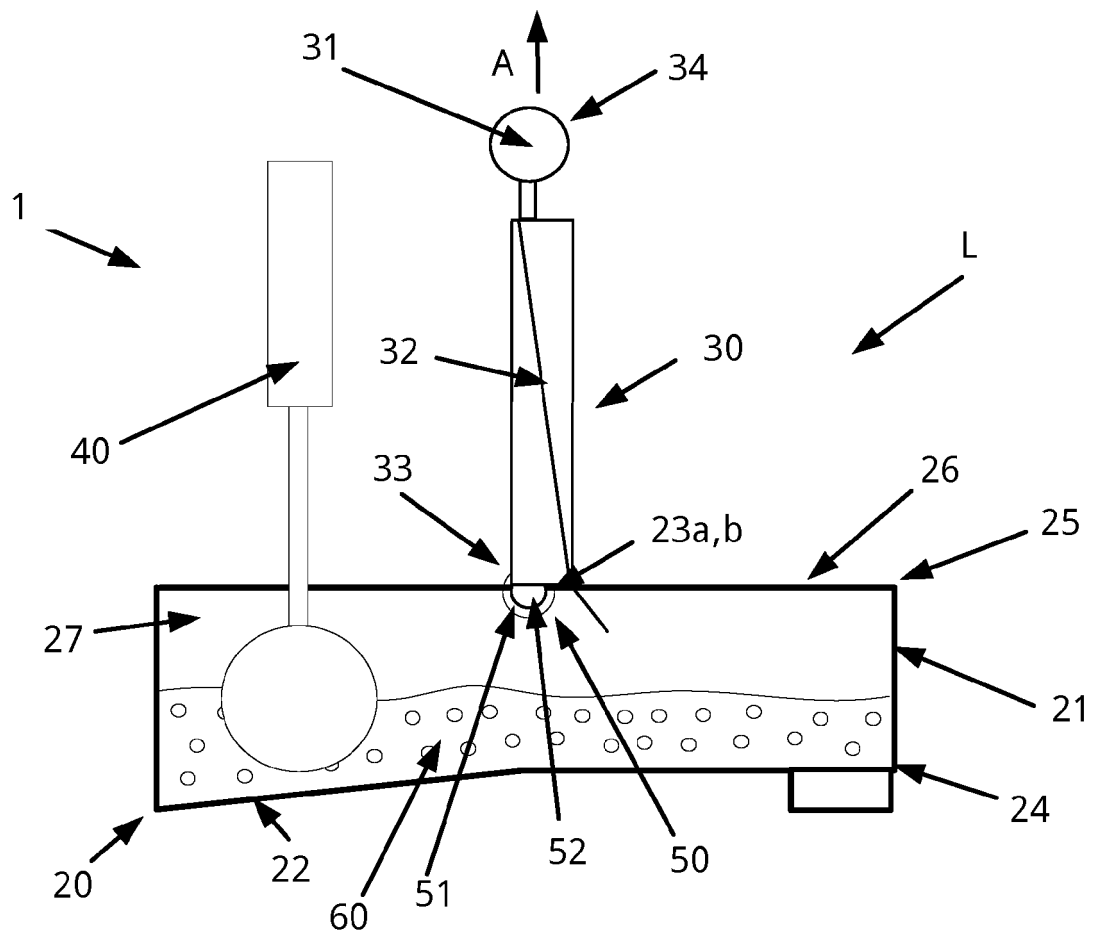


Fig. 5

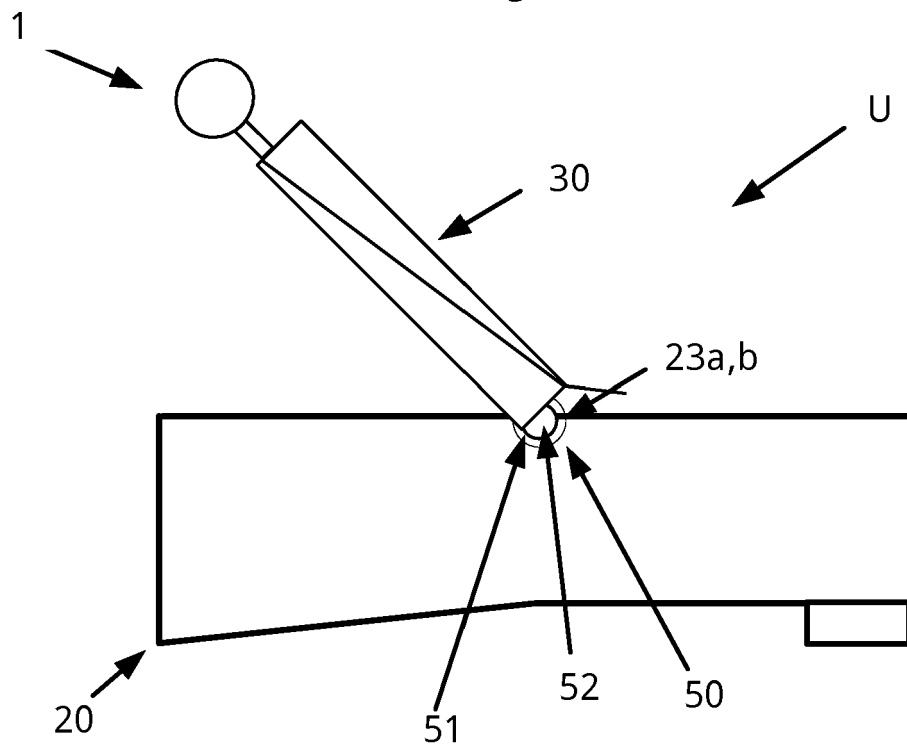
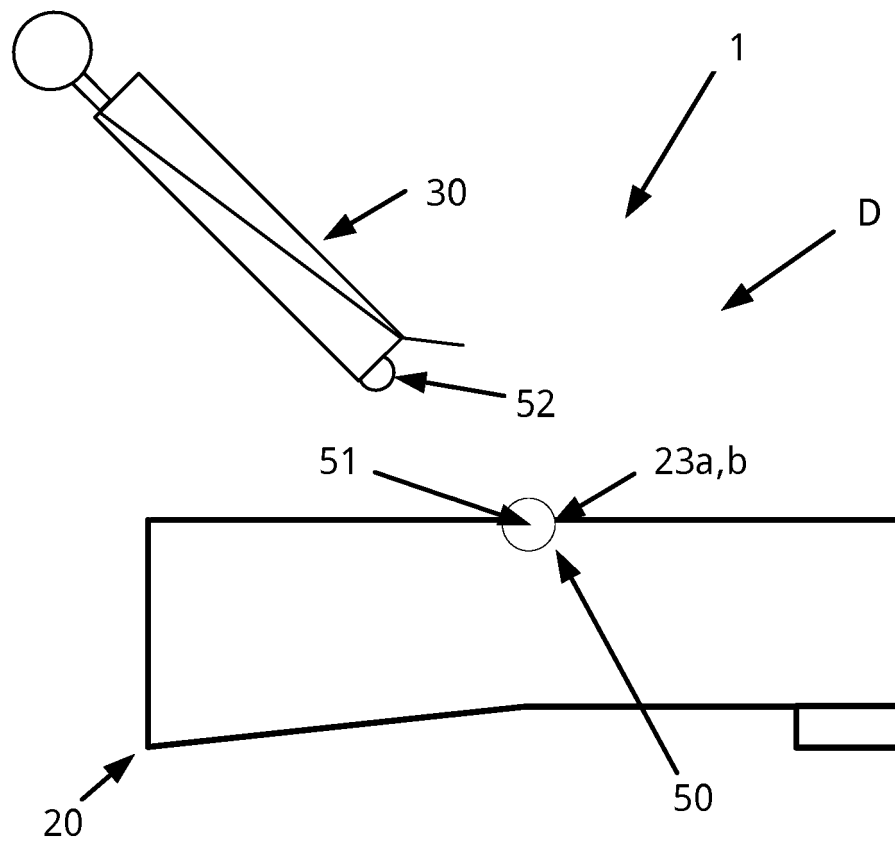


Fig. 6





EUROPEAN SEARCH REPORT

 Application Number
 EP 19 20 4848

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DOCUMENTS CONSIDERED TO BE RELEVANT			
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (IPC)
X	WO 2008/031628 A1 (FLEX THE INNOVATIONLAB B V [NL]; VERBRUGGE JEROEN KLAASJAN [NL]) 20 March 2008 (2008-03-20) * the whole document *	1-18	INV. B44D3/12
A	WO 00/37320 A2 (STERN MAX M [US]; KROK ELYON [US]) 29 June 2000 (2000-06-29) * the whole document *	1-18	
A	US 2 664 584 A (TWERDAHL EDWARD A) 5 January 1954 (1954-01-05) * the whole document *	1-18	
			TECHNICAL FIELDS SEARCHED (IPC)
			B44D
The present search report has been drawn up for all claims			
Place of search Munich		Date of completion of the search 14 February 2020	Examiner Kelliher, Cormac
CATEGORY OF CITED DOCUMENTS X : particularly relevant if taken alone Y : particularly relevant if combined with another document of the same category A : technological background O : non-written disclosure P : intermediate document T : theory or principle underlying the invention E : earlier patent document, but published on, or after the filing date D : document cited in the application L : document cited for other reasons & : member of the same patent family, corresponding document			

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This annex lists the patent family members relating to the patent documents cited in the above-mentioned European search report.
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