US00RE44616E

(19) **United States**

(12) **Reissued Patent**

Blaha et al.

(10) **Patent Number: US RE44,616 E**

(45) **Date of Reissued Patent: Dec. 3, 2013**

(54) **CARD SHUFFLING DEVICES AND RELATED METHODS**

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(21) Appl. No.: **13/300,733**

(22) Filed: **Nov. 21, 2011**

Related U.S. Patent Documents

Reissue of:

(64) Patent No.: **6,659,460**
Issued: **Dec. 9, 2003**
Appl. No.: **10/009,411**
PCT Filed: **Mar. 26, 2001**
PCT No.: **PCT/AT01/00088**
§ 371 (c)(1),
(2), (4) Date: **Dec. 10, 2001**
PCT Pub. No.: **WO01/78854**
PCT Pub. Date: **Oct. 25, 2001**

U.S. Applications:

(63) Continuation of application No. 11/299,243, filed on Dec. 9, 2005, now Pat. No. Re. 42,944.

(30) **Foreign Application Priority Data**

Apr. 12, 2000 (AT) 634/2000

(51) **Int. Cl.**
A63F 1/12 (2006.01)

(52) **U.S. Cl.**
USPC ..... **273/149 R**

(58) **Field of Classification Search**
USPC ..... 273/149 R, 149 P
See application file for complete search history.

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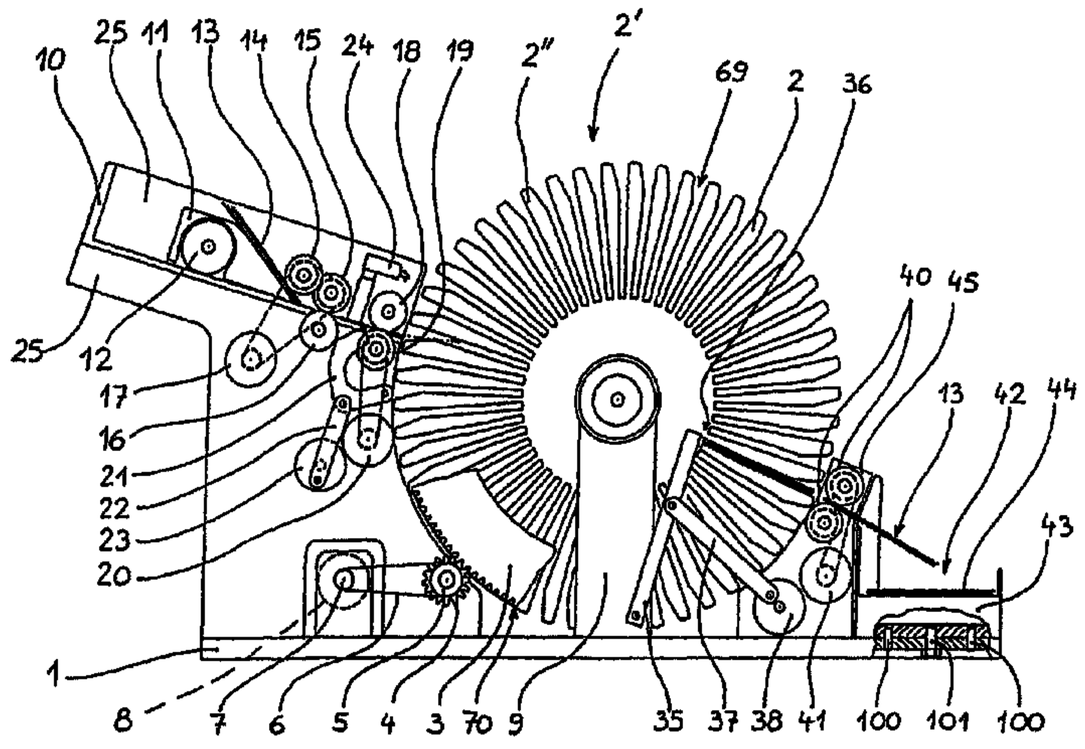
(57) **ABSTRACT**

A card shuffler is disclosed having a card output portion that is easily connectable to either a first output card receiver or a second output card receiver. The first output card receiver enables the dealer to remove cards one at a time from the shuffler. The second output card receiver enables the dealer to remove a group of cards at a time from the shuffler.

22 Claims, 5 Drawing Sheets



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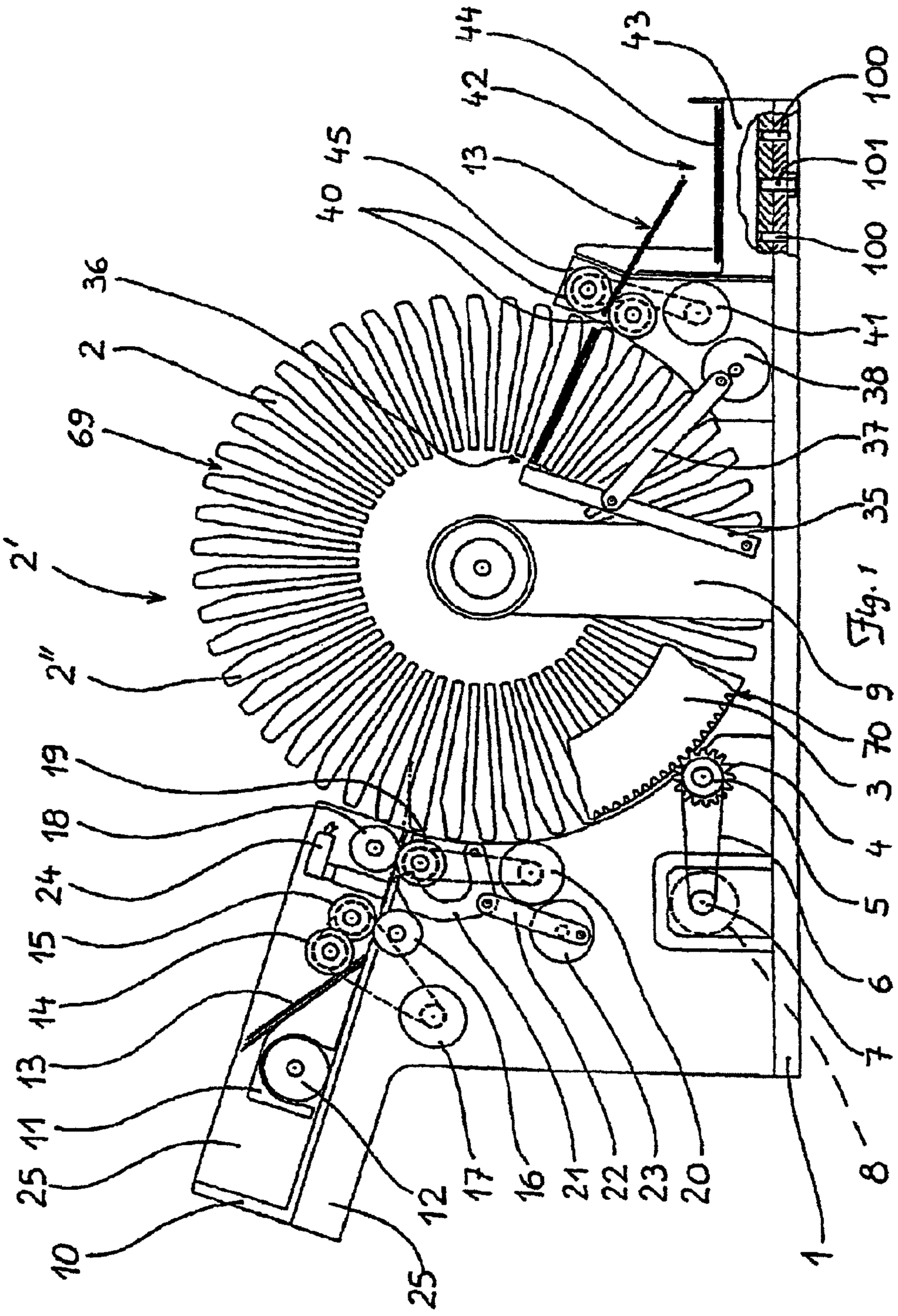
44
43
42
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2'
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Fig. 1

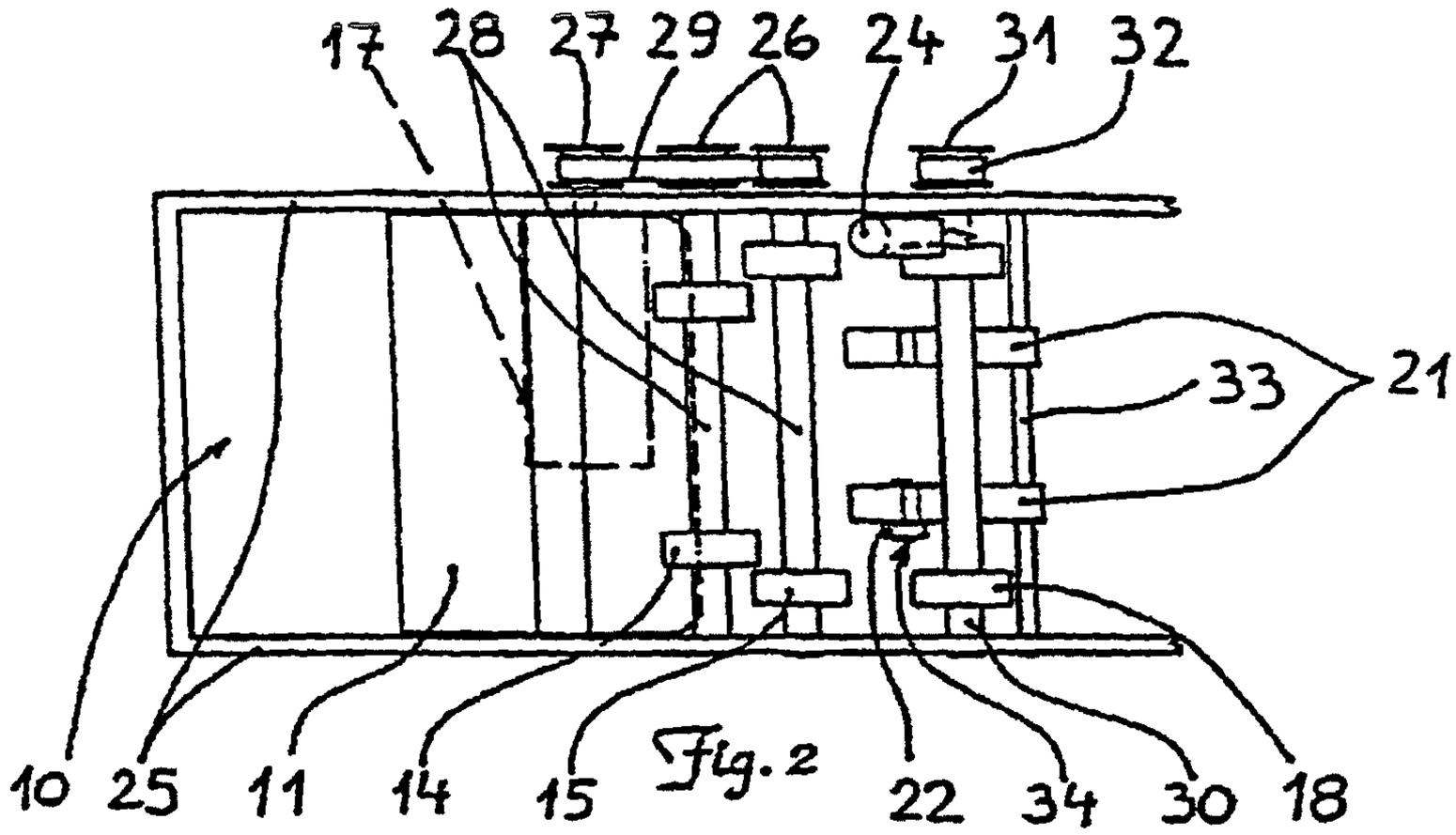
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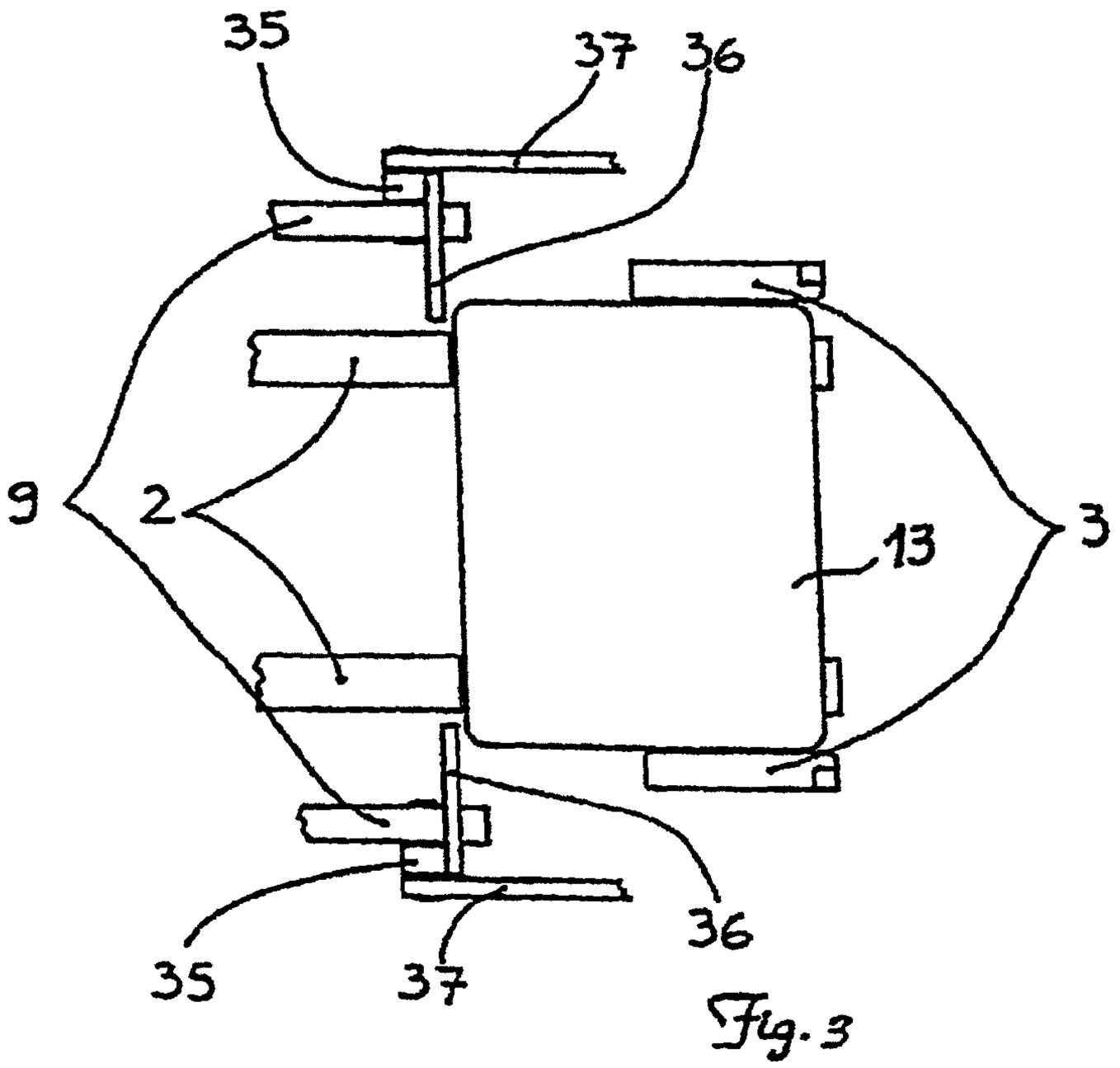
Fig. 2


35
37
36
9
2
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36

Fig. 3

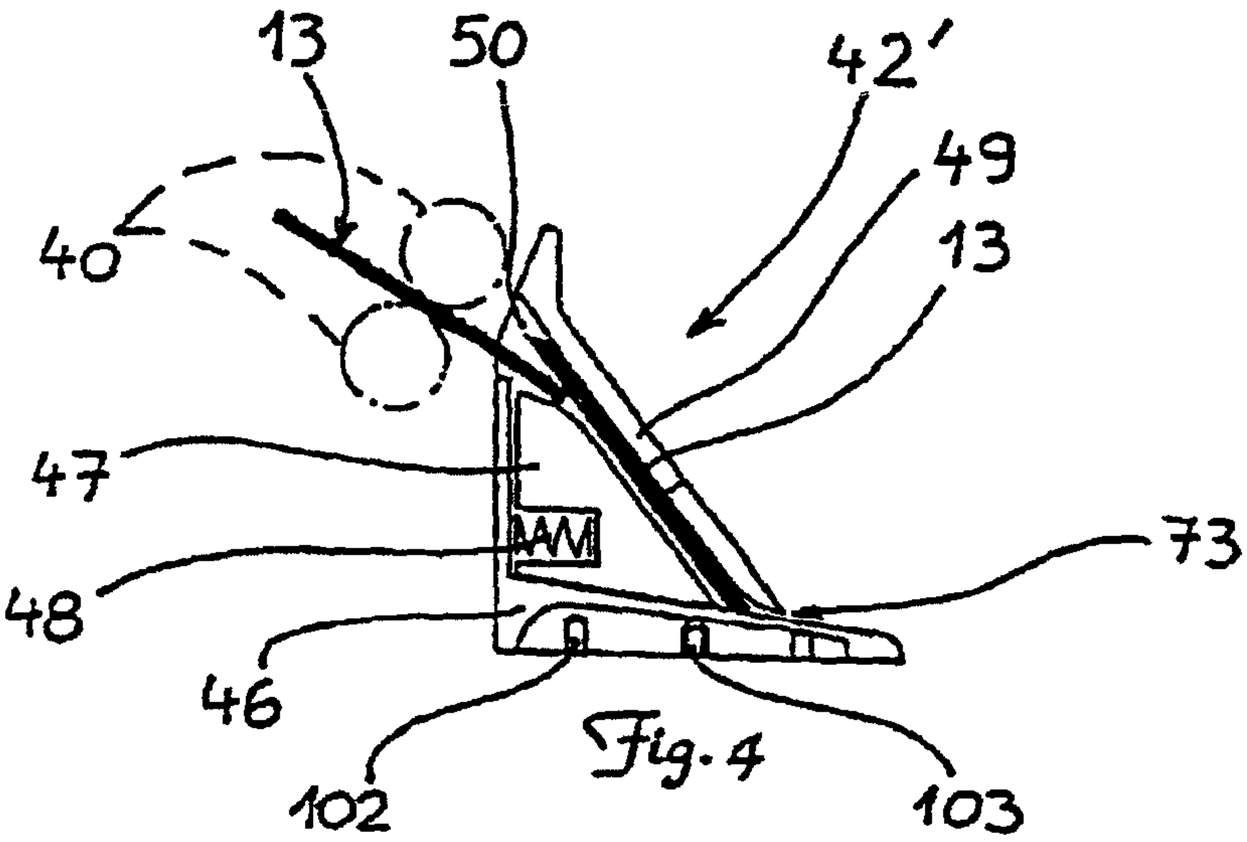

Fig. 4

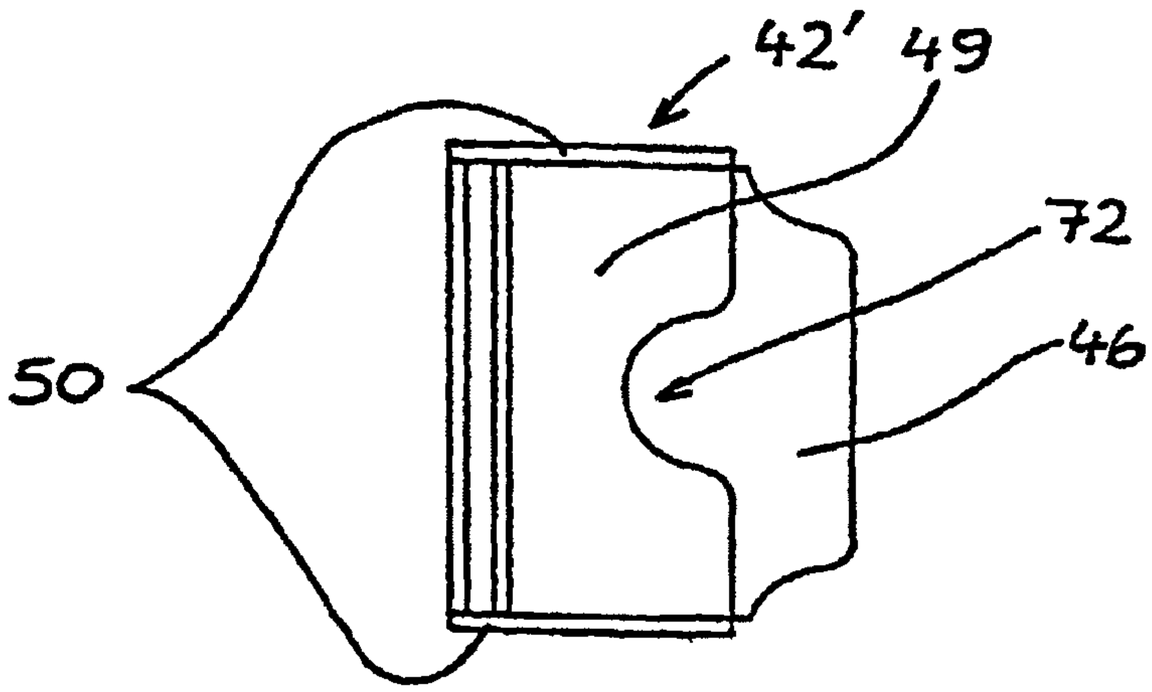

Fig. 4A

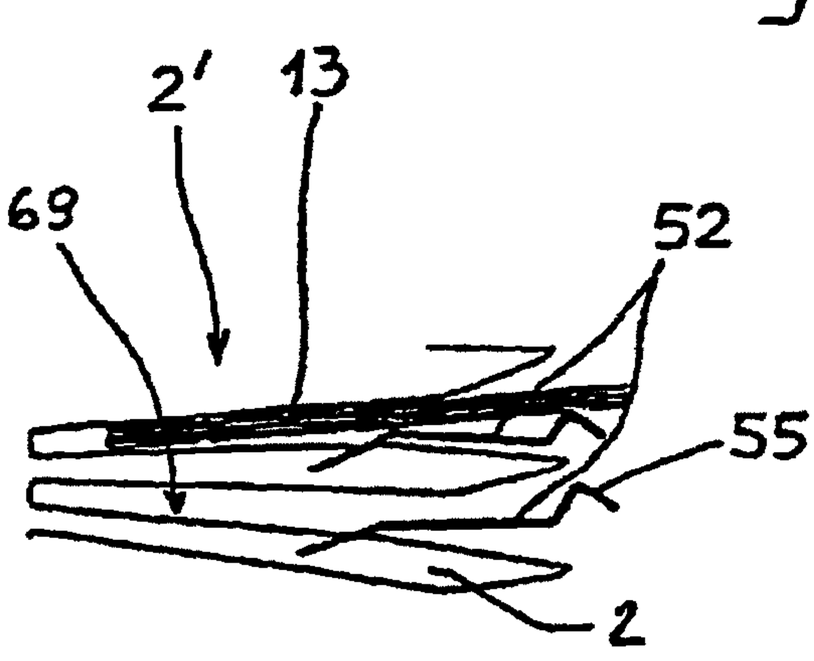

Fig. 5

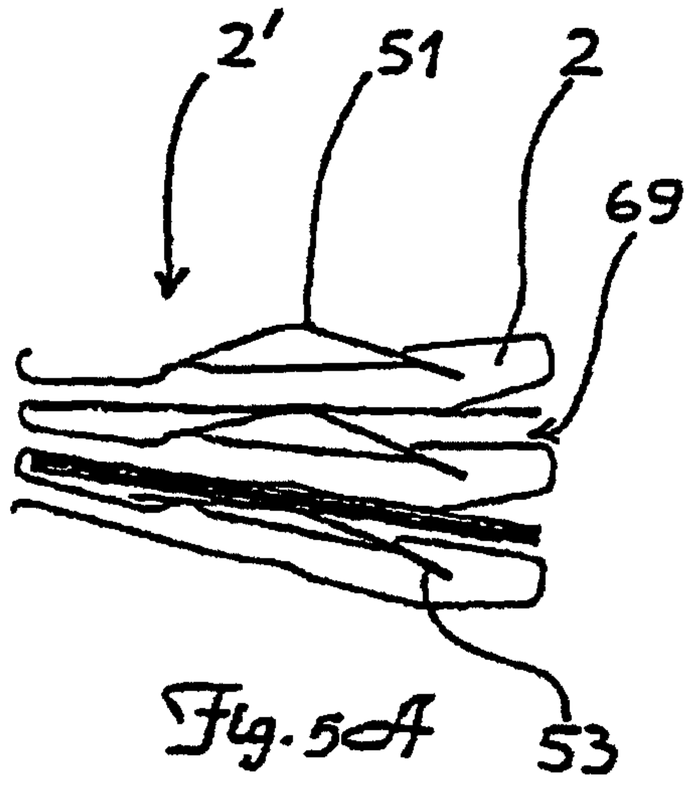

Fig. 5A

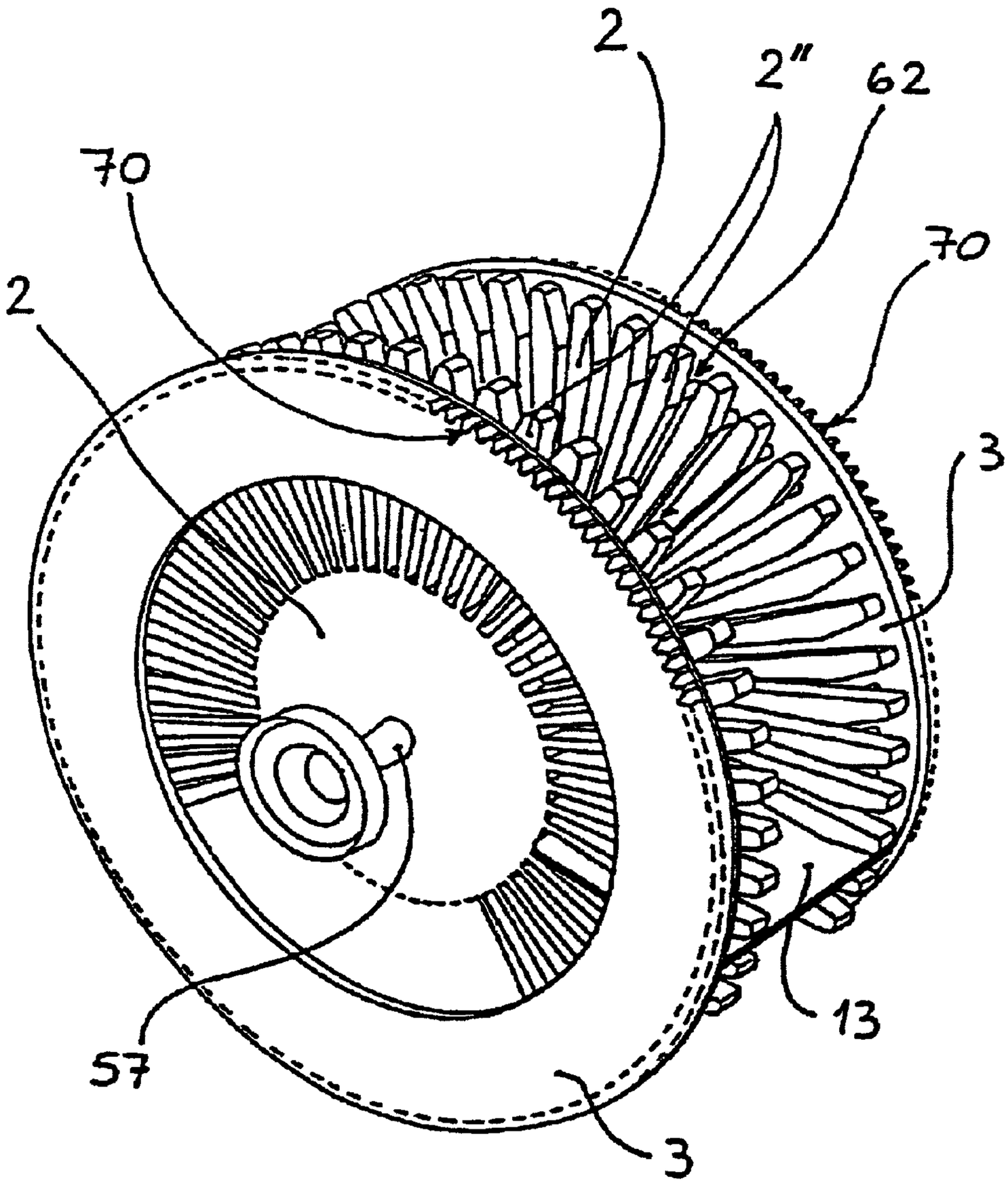

Fig. 6

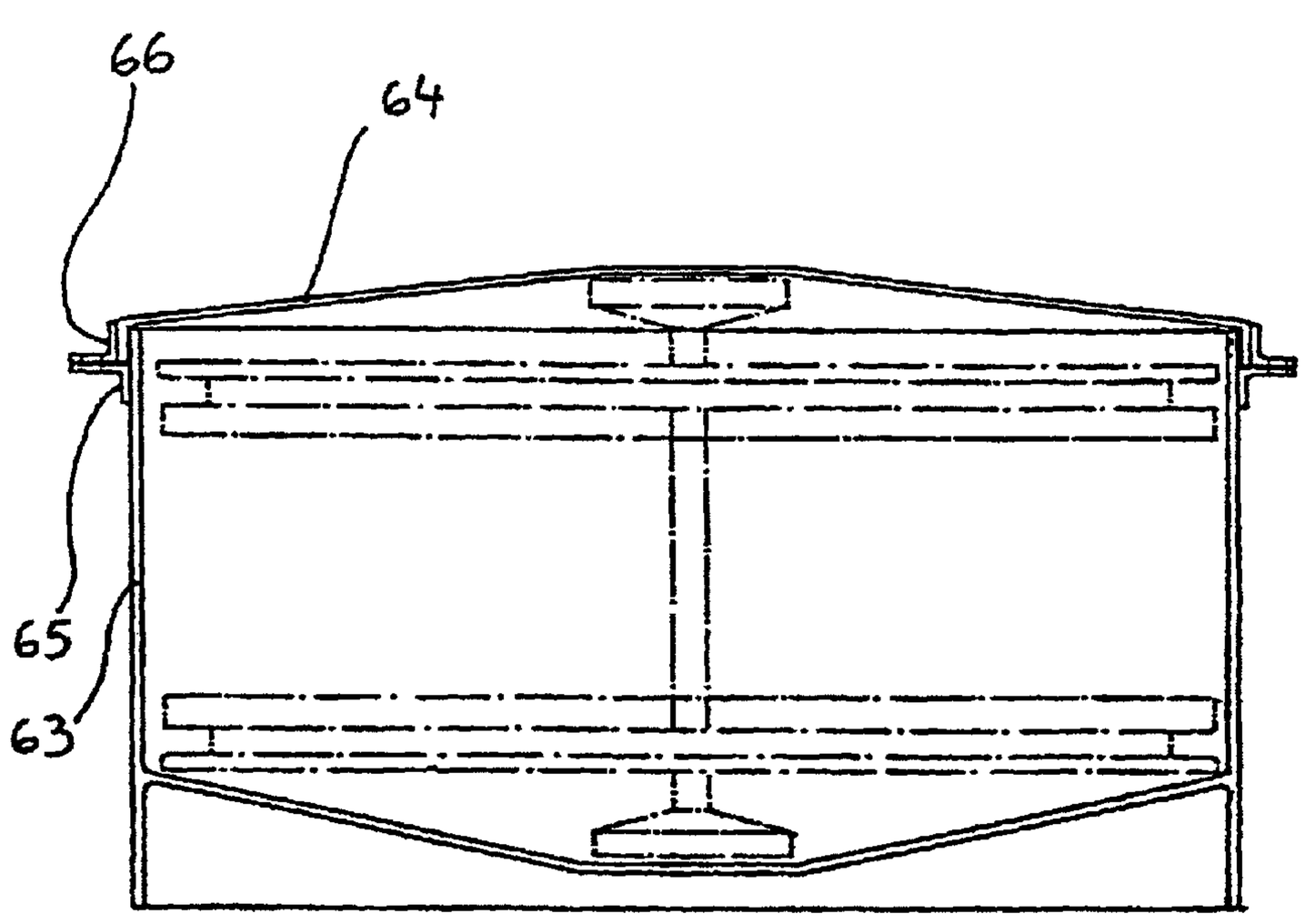

Fig. 7

CARD SHUFFLING DEVICES AND RELATED METHODS

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.

Notice: More than one reissue application has been filed for the reissue of U.S. Pat. No. 6,659,460. In addition to this patent, which issued from Reissue application Ser. No. 11/299,243, filed Dec. 9, 2005 now U.S. Pat. No. Re. 42,944, and issued Nov. 22, 2011, on behalf of Blaha et al., Continuation Reissue application Ser. No. 13/300,733, filed Nov. 21, 2011, on behalf of Blaha et al., is also a reissue application of U.S. Pat. No. 6,659,460, issued Dec. 9, 2003, to Blaha et al.

CROSS REFERENCE TO RELATED APPLICATIONS

Applicants claim priority under 35 U.S.C. §119 of Austrian Application No. A 634/2000 filed Apr. 12, 2000. Applicants also claim priority under 35 U.S.C. §120 of PCT/AT01/00088 filed Mar. 26, 2001. The international application under PCT article 21(2) was not published in English.

The invention relates to a card shuffler.

An example of a shuffling device is described in U.S. Pat. No. 4,659,082. In this known shufflering apparatus the shuffling vessel is formed by a horizontally arranged drivable drum which is provided with radially extending shafts for receiving a card each. An input station for receiving a stack of discarded playing cards is provided through which the individual shafts of the drum are supplied. The storage container for the shuffled cards is supplied by the drum. Following the activation of a card ejector, the individual cards are pushed into the storage container at random.

A similar card shuffler has become known from U.S. Pat. No. 4,586,712 in which the drum is vertical.

A very high degree of shuffling is achieved with such card shufflers. The foreseeability of the card sequence in the shuffled card stack is virtually impossible for a third party even in the case of using electronic aids.

In these known solutions there are card storage means for retrieving the shuffled cards individually. This leads to the disadvantage, however, that such card shufflers can only be used for certain games, but not for such games where a removal in stacks of the shuffled cards is provided.

A card shuffling apparatus with an output apparatus for retrieving cards is described in U.S. Pat. No. 5,683,085 A which by way of a respective activation can be supplied from the shuffling storage means not only with individual cards, but also with several cards, so that an entire stack of cards can be taken from the output apparatus.

From U.S. Pat. No. 5,989,122 A, a card shuffling apparatus is known which also conveys entire playing card stacks to an intended output apparatus.

The differentiation whether or not entire stacks of cards or merely individual cards are conveyed to the output apparatus is solved in the last two documents electronically. The output apparatuses per se remain the same and can thus not be adapted to the different card games.

It is the object of the present invention to avoid this disadvantage and to propose a card shuffler of the kind mentioned above which can be used for both types of games.

The proposed measures lead to a modular arrangement of the card shuffler, with an exchange of the card storage means for the shuffled cards being possible in a simple way. A card storage means for the individual retrieval of cards can be replaced for example very simply by one for the retrieval of cards in stacks and vice-versa.

Principally, the receiving means can be provided with any desired arrangement and can comprise groove- and spring-shaped shapings, for example with which the card storage means and the basic body mutually engage. The fixing can be provided by means of a fixable alignment pin for example. It is also possible, however, to provide connections by clips or snap-in connections such as spring-loaded balls or pins as receiving means for the card storage means which latch into respective latching recesses of the card storage means or the basic body of the shuffler.

In one embodiment, the content of each compartment of the shufflers storage means is securely pushed into a nip line between two rollers during the output which convey the same into the card storage means for the shuffled cards.

This also allows shuffling more than one card into a compartment of the shuffling storage means and thus keeping the card shuffler relatively small. This allows operating such a shuffler on a game table even when a larger number of card stacks, such as six or eight, are in the game and need to be managed. The nip rollers can either be provided with an elastically deformable coating or be pressed in a resilient way against one another which also allows an adjustment to the thickness of the content of the compartment to be ejected which can also hold several cards, e.g. a card stack with nine cards.

In one embodiment, the card shuffling storage means is a drum having radially arranged compartments. The cards are held in the individual compartments and cannot slip outwardly by centrifugal force and thus prevent any contact of the cards with a housing enclosing the drum. This leads to a very substantial protection of the cards.

Moreover, in the case of any required exchange of a drum, it is not necessary to remove the cards from the compartment of the same. Instead, the drum including the cards contained in the same can be exchanged.

In one embodiment, a card sensor is provided to detect the cards used in a game. It is not only possible to check their number, but also the card picture, as a result of which any changes to the cards can be recognized.

The invention is now explained in closer detail by reference to the enclosed drawings, wherein:

FIG. **1** schematically shows a card shuffler in accordance with the invention in which a cover has been removed;

FIG. **2** shows a top view of the input device;

FIG. **3** shows a detail of an output device;

FIG. **4** shows a card storage means for the one-by-one output of shuffled cards;

FIG. **4**A shows a top view of the card storage means according to FIG. **4**;

FIGS. **5** and **5**A show details of variants of the arrangement of compartments of the shuffling storage means;

FIG. **6** shows an axonometric representation of the shuffling storage means;

FIG. **7** shows a security container with a shuffling storage means;

On a base plate **1**, a shuffling storage means **2'** is disposed on a console formed by two legs **9**, which shuffling storage means is formed by a rotatably held drum **2**. Said drum **2** is connected to two disks **3** via spacers **62** (FIG. **6**). The flanges **2"** of the drum **2** are provided with compartment-like slots **69** which are provided for receiving cards.

Said disks **3** are each provided with a circumferential toothing **70**. The shuffling storage means **2'** can be driven via a pinion **4** and a toothed pulley **5** which is rigidly connected to the same and are jointly held rotatably in plates **25**, and a toothed belt **6** via a second toothed pulley **7** and a motor **8**. This motor **8** is triggered via a randomizer and optionally also moves the shuffling storage means **2'** in mutually opposite directions, so that an oscillating movement of the shuffling storage means **2'** can occur.

A reservoir **10** for the discarded cards **13** is provided which is part of an input apparatus. It comprises a wedge **11** which is rolled off by a roller **12** which is arranged rotatably within the same on an inclined floor of the reservoir **10** against two elastic rollers **14** (FIG. **2**). The two rollers **14** are rotatably held in the two plates **25** on a common shaft **28** and can be driven by way of two belt pulleys **26**, a toothed belt **29** as well as a belt pulley **27** via a motor **17** jointly with the rollers **15**. Two rollers **16** touch the two rollers **15** on the circumference, so that they can be co-rotated by surface friction.

A sensor **24** is provided as a line sensor for recognizing the card symbol of the respectively moved card **13**.

The pair of rollers **19** and the pair of rollers **18** which touch the same on the circumference and are each situated on shaft **30** can be driven in the same manner as described above by motor **23**.

The two levers **21** are used for the complete insertion of the respectively moved card into a compartment **69** of the shuffling storage means **2'** and are oscillatingly drivable by way of a rod **22** which is swivelably connected with the lever **21** by the axle **34** by way of an eccentric disk **23** disposed on the motor.

Two variants are provided for the card storage means **42**, **42'** for the shuffled cards **13**, which storage means can optionally be fastened to the base plate **1** and can easily be mutually exchanged.

A receiving means is provided which comprises two alignment pins **100** which are inserted in the base plate **1** and on which a card storage means **42**, **42'** for shuffled cards can be inserted. The card storage means **42**, **42'** is provided with respective bores **102** in its base. In order to fix the respective card storage means **42**, **42'**, a screw **101** is provided which engages in a threaded bore **103** of the card storage means **42**, **42'**.

A receiving means for the card storage means **42**, **42'** can also use clip connectors to connect to the card storage means **42**, **42'**, or a recess can be formed in the base plate **1** into which the card storage means **42**, **42'** can be inserted.

The output of cards **13** from the compartments **69** into a card storage means **42**, **42'** is performed by means of two swivel arms **35** which are swivelably held in the two legs **9** and are oscillatingly drivable by way of levers **37** and by way of an eccentric disk **38** situated on a motor. Said two swivel arms **35** each carry at their upper ends an inwardly positioned rail **36** (FIG. **3**) which grasps the cards disposed in a compartment **69** and conveys them to a nip gap of two grip rollers **40**. Said grip rollers **40** are held in the plates **45** and are simultaneously drivable by a motor **41**.

The grip rollers **40** convey the respectively moved cards **13** either into the card storage means **42** for the shuffled cards as shown in FIG. **1** for a stack-by-stack removal of the cards **13**, or into a card storage means **42'** for a one-by-one removal of shuffled cards.

A card storage means **42** is substantially formed by a U-shaped table **43** in which the cards **13** are deposited in a stack **44**. The cards can be removed upwardly by the croupier stack-by-stack if necessary.

The reservoir **42'** according to FIGS. **4** and **4**A is provided for a one-by-one removal of cards **13**. The cards emerging from the nip gap of the grip rollers **40** enter the card storage means **42'** through a gap **50** which is limited by an oblique downwardly extending wall **49** and a spring-loaded shoe **47**. The cards **13**, which also include several of the same simultaneously, are pushed between the shoe **47** and the wall **49** or the cards already disposed in the card storage means **42'**, with the shoe **47** being pushed back against the force of the spring **48**. The shoe **47** slides over an inclined plane of an L-shaped basic body **46**. A gap **73** remains between the lower edge of the wall **49** and the L-shaped basic body **46**, through which gap cards **13** can be retrieved one-by-one.

As is shown in FIG. **4**A, the inclined wall **49** is provided at its lower edge with a centrally arranged recess **72** which is open on its edge and facilitates the withdrawal of the individual cards. The card storage means **42'** is limited on the side by walls **50**. The shuffled cards can be retrieved by the croupier individually in that the respectively foremost of the playing cards **13** is grasped through recess **72** in the wall **49** and is pulled through the gap **73**.

As is shown in FIGS. **5** and **5**A, springs **51**, **52** are arranged in the compartments **69** of the shuffling storage means **2'**, which springs ensure the clamping of the card(s) inserted into the respective compartment **69**.

The spring **52** is provided with a bending **55** which covers the radially outer openings of the compartments **69** and prevents securely that cards are ejected outwardly by centrifugal force during the rotation of the shuffling storage means **2'**.

The springs **51** according to FIG. **5**A are arranged as curved or bent leaf springs and are inserted in a slot **53** of the one wall of the compartment **69** and press against the respectively opposite wall of compartment **69**. The card inserted into the respective compartment **69** is clamped between said spring **51** and the opposite wall of compartment **69** and held in this way in the respective compartment **69**.

The output of the cards of a compartment **69** is carried out in such a way that the card **13** or a stack of up to nine cards for example is ejected by force. This is carried out by means of the swivel arms **35** and rails **36**, as already explained above. The springs **51**, **52** are deformed during the ejection of the card(s) **13**.

As is shown in FIGS. **1** and **6**, drum **2** rests with axle journals **57** in receiving means of legs **9** and can be removed or lifted from the same with ease. Since the compartments **69** are provided with springs **51**, **52**, the cards **13** can remain in their compartments during the removal of drum **2**.

The drum **2** can be placed in a security container **63** (FIG. **7**) and can be transported in the same, with the container **63** being sealable with a lid **64**. For this purpose, flanges **65**, **66** are fastened on container **63** and the lid **64**. This allows connecting the container **63** with the lid **64** in a manner so as to be secure against manipulations or to lock the same.

What is claimed is:

[1. A playing card shuffling device comprising:

a card input portion for receiving cards to be shuffled;

a card shuffling portion for receiving cards from the card input portion and outputting shuffled cards to a card outlet portion; and

the card outlet portion being adapted for coupling to a first output card receiver when it is desired to remove shuffled cards one at a time from the shuffling device, and the card outlet portion being adapted for coupling to a second output card receiver when it is desired to remove a group of shuffled cards at a time from the shuffling device.**]**

[2. The device of claim 1 wherein the card outlet portion comprises first alignment features for aligning with corresponding second alignment features on the first output card receiver and the second output card receiver.]

[3. The device of claim 2 wherein the first alignment features on the card outlet portion comprise alignment pins.]

[4. The device of claim 1 further comprising the second output card receiver coupled to the card outlet portion, the second output card receiver comprising a U-shaped table for receiving shuffled cards from the card outlet portion to facilitate grasping of a group of cards on the U-shaped table.]

[5. The device of claim 1 further comprising the first output card receiver coupled to the card outlet portion, the first output card receiver having an output gap for exposing a portion of a single card for removal of cards one at a time from the output gap.]

[6. The device of claim 1 wherein the card outlet portion comprises grip rollers for forwarding one or more cards from the card shuffling portion to the first output card receiver or the second output card receiver coupled to the card outlet portion.]

[7. The device of claim 1 wherein the card shuffling portion comprises movable card compartments, each compartment having an open end, the card shuffling portion further comprising a drivable lever for ejecting one or more cards from a compartment for being forwarded to the first output card receiver or the second output card receiver coupled to the card outlet portion.]

[8. The device of claim 1 wherein the card shuffling portion comprises a a rotatable drum having radially arranged compartments.]

[9. The device of claim 8 wherein the drum is provided with gear teeth around its periphery engaged with the drivable pinion for rotating the drum.]

[10. The device of claim 8 wherein each compartment comprises a spring with a bend at a free end of the spring to help retain cards within a compartment.]

[11. The device of claim 8 wherein each compartment comprises opposing walls and an open end, each compartment comprising a retainer spring that is pre-tensioned against one of the walls of the compartments to retain cards within the compartment.]

[12. The device of claim 1 further comprising a sensor for recognizing identities of cards.]

[13. The device of claim 1 wherein the card output portion includes clip connectors for connecting the first output card receiver or the second output card receiver to the card outlet portion.]

[14. The device of claim 1 wherein the card outlet portion includes a recess for the first output card receiver or the second output card receiver.]

[15. The device of claim 1 wherein the card outlet portion includes one of alignment pins and holes, and the first output card receiver and second card receiver includes one of alignment pins and holes for coupling to the card outlet portion.]

[16. The device of claim 1 wherein the card outlet portion is secured to the first output card receiver or the second output card receiver by means of a screw.]

[17. The device of claim 1 further comprising the first output card receiver, the first output card receiver comprising a spring loaded plate urging cards against a wall, the first card receiver further comprising an output gap for removal of one card at a time from the output gap.]

[18. The device of claim 1 further comprising the first output card receiver coupled to the card outlet portion.]

[19. The device of claim 1 further comprising the second output card receiver coupled to the card outlet portion.]

[20. A method performed on a shuffling device, comprising the steps of: providing a shuffling device comprising a card input portion for receiving cards to be shuffled; providing a card shuffling portion for receiving cards from the card input portion and outputting shuffled cards to a card outlet portion; providing a first output card receiver wherein the card outlet portion is adapted for coupling to the first output card receiver when it is desired to remove shuffled cards one at a time from the shuffling device and providing a second output card receive wherein the card outlet portion is adapted for coupling to the second output card receiver it is desired to remove a group of shuffled cards at a time from the shuffling device; and

coupling either the first output card receiver or the second card output receiver to a coupling mechanism on the card outlet portion depending on whether it is desired to remove shuffled cards one at a time from the shuffling device or remove a group of shuffled cards at a time from the shuffling device.]

21. A playing card shuffling device, comprising:

a card input portion for receiving cards;

a card shuffling portion for receiving cards from the card input portion, the card shuffling portion comprising:

a plurality of compartments, at least one compartment of the plurality of compartments sized and configured to receive at least one card at least partially into the at least one compartment; and

at least one spring configured and positioned to prevent at least one card disposed in the at least one compartment from exiting the at least one compartment during movement of the card shuffling portion; and

a card outlet portion for receiving shuffled cards from the card shuffling portion.

22. The playing card shuffling device of claim 21, wherein the card outlet portion is adapted for interchangeably coupling to a first output card receiver for removal of shuffled cards one at a time from the playing card shuffling device, and to a second output card receiver for removal of a group of shuffled cards from the playing card shuffling device.

23. The playing card shuffling device of claim 21, wherein the at least one spring is configured and positioned to clamp the at least one card within the at least one compartment during the movement of the card shuffling portion.

24. The playing card shuffling device of claim 23, wherein the card shuffling portion comprises a card carousel, the plurality of compartments extend radially outward from a central hub of the card carousel and openings of the plurality of compartments are located at a radially outermost extent of each compartment of the plurality.

25. The playing card shuffling device of claim 24, wherein the at least one spring is configured and positioned to prevent the at least one card from ejecting outwardly by centrifugal force during rotation of the card carousel.

26. The playing card shuffling device of claim 24, wherein the at least one spring comprises a bent distal end at least partially covering a radially outer opening of the at least one compartment.

27. The playing card shuffling device of claim 23, wherein the at least one spring comprises a leaf spring pressing against a wall of the at least one compartment to clamp the at least one card between the leaf spring and the wall.

28. The playing card shuffling device of claim 23, wherein the at least one spring comprises a first spring comprising a bent distal end at least partially covering an opening of the at least one compartment and a second spring comprising a leaf

spring pressing against a wall of the at least one compartment to clamp the at least one card between the leaf spring and the wall.

29. The playing card shuffling device of claim 21, wherein the at least one compartment of the plurality of compartments is sized to receive a plurality of playing cards in the at least one compartment and the at least one spring is configured and positioned to prevent each card of the plurality of playing cards from exiting the at least one compartment during movement of the card shuffling portion.

30. The playing card shuffling device of claim 21, wherein the card shuffling portion is cooperatively configured for removal from the playing card shuffling device while the at least one card remains in the at least one compartment.

31. A playing card shuffling device, comprising:

a card input portion for receiving cards;

a card shuffling portion for receiving cards from the card input portion, the card shuffling portion comprising:

a plurality of compartments sized and configured to receive at least one card at least partially into each compartment of the plurality of compartments; and

at least one spring configured to clamp the at least one card within at least one compartment of the plurality of compartments during movement of the card shuffling portion; and

a card outlet portion for receiving shuffled cards from the card shuffling portion.

32. The playing card shuffling device of claim 31, wherein the card outlet portion is adapted for interchangeably coupling to a first output card receiver for removal of shuffled cards one at a time from the shuffling device, and to a second output card receiver for removal of a group of shuffled cards from the shuffling device.

33. The playing card shuffling device of claim 31, wherein the at least one spring is configured and positioned to prevent the at least one card disposed in the at least one compartment from exiting the at least one compartment during movement of the card shuffling portion.

34. The playing card shuffling device of claim 33, wherein the card shuffling portion comprises a card carousel, the plurality of compartments extend radially outward from a central hub of the card carousel and openings of the plurality of compartments are located at a radially outermost extent of each compartment of the plurality of compartments.

35. The playing card shuffling device of claim 34, wherein the at least one spring is configured and positioned to prevent the at least one card from ejecting outwardly during rotation of the card carousel.

36. The playing card shuffling device of claim 34, wherein the at least one spring comprises a bent distal end at least partially covering a radially outer opening of the at least one compartment.

37. The playing card shuffling device of claim 34, wherein the central hub of the card carousel is rotatably supported by and detachably engaged with legs extending from a base plate to enable removal of the card carousel from the card shuffler.

38. The playing card shuffling device of claim 34, further comprising levers operably coupled to rails to, when the at least one compartment is operably aligned with the rails, cause the rails to push the at least one playing card disposed in the at least one compartment, elastically deform the at least one spring, and eject the at least one playing card from the at least one compartment.

39. The playing card shuffling device of claim 33, wherein the at least one spring comprises a first spring comprising a bent distal end at least partially covering an opening of the at least one compartment and a second spring comprising a leaf spring pressing against a wall of the at least one compartment to clamp the at least one card between the leaf spring and the wall.

40. The playing card shuffling device of claim 33, wherein the at least one spring comprises a leaf spring pressing against a wall of the at least one compartment to clamp the at least one card between the leaf spring and the wall.

41. A method of making a card shuffling device, comprising the acts of:

providing a shuffling device comprising a card input portion for receiving cards;

positioning a card shuffling portion to receive cards from the card input portion;

positioning at least one spring to clamp at least one card within at least one compartment of a plurality of compartments of the card shuffling portion during movement of the card shuffling portion;

positioning a card outlet portion to receive shuffled cards from the card shuffling portion.

42. The method of claim 41, further comprising:

providing a first output card receiver adapted for coupling to a coupling mechanism of the card outlet portion configured for removal of shuffled cards one at a time from the shuffling device;

providing a second output card receiver adapted for coupling to the coupling mechanism of the card outlet portion configured for removal of a group of shuffled cards from the shuffling device; and

coupling either the first output card receiver or the second card output receiver to the coupling mechanism.

* * * * *

UNITED STATES PATENT AND TRADEMARK OFFICE

CERTIFICATE OF CORRECTION

PATENT NO. : RE44,616 E
APPLICATION NO. : 13/300733
DATED : December 3, 2013
INVENTOR(S) : Ernst Blaha

It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

In the specification

Column 1:

Please delete the following paragraph that appears on lines 11 through 18:

"Notice: More than one reissue application has been filed for the reissue of US. Pat. No. 6,659,460. In addition to this patent, which issued from Reissue application Ser. No 11/299,243, filed Dec. 9, 2005 now U.S. Pat. No. Re. 42,944, and issued Nov. 22, 2011, on behalf of Blaha et al., Continuation Reissue application Ser. No. 13/300,733, filed Nov. 21, 2011, on behalf of Blaha et al., is also a reissue application of U.S. Pat. No. 6,659,460, issued Dec. 9, 2003 to Blaha et al."

Please insert the following paragraph immediately following the TITLE and preceding the CROSS REFERENCE TO RELATED APPLICATIONS:

--Notice: More than one reissue application has been filed for the reissue of U.S. Patent 6,659,460. This reissue application is a continuation reissue application of Reissue Application Ser. No. 13/300,733, filed November 21, 2011, now U.S. Pat. No. RE44,616, issued December 3, 2013, which is a continuation reissue of Reissue Application Ser. No. 11/299,243, filed December 9, 2005, now U.S. Pat. No. RE42,944, issued November 22, 2011, each of which is also a reissue application of U.S. Pat. No. 6,659,460, issued December 9, 2003, to Blaha et al. This application is also the parent of Continuation Reissue Application Ser. No. 14/094,706, filed December 2, 2013, now U.S. Pat. No. RE45,562, issued June 16, 2015, and the grandparent of Continuation Reissue Application Ser. No. 14/730,104, filed June 3, 2015, pending, each of which is also a reissue application of U.S. Pat. No. 6,659,460, issued December 9, 2003, to Blaha et al.--

Signed and Sealed this
Fourteenth Day of June, 2016

Michelle K. Lee

Michelle K. Lee
Director of the United States Patent and Trademark Office