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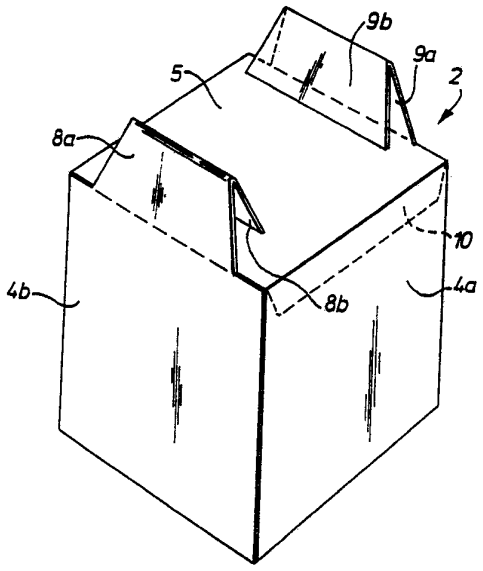
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(57) Abstract

A novelty device (2) comprises a substantially cube-shaped container in which a gift may be disposed. Opposite walls (4b, 4d) of the container are extended upwardly so as to define respective tabs (8, 9) each of which is folded back on itself to define tab parts (8a, 8b and 9a, 9b). A snap is connected between the tabs (8, 9), and extends within the container. In use, an operator grasps tabs (8, 9) and urges them apart. In doing so, the container opens to reveal the gift and the snap emits a sharp, explosive sound. Novelty devices of other shapes are also described. Also described are novelty devices which comprise a greetings card on which a first movable part is provided. A snap is fixed to the movable part. In use, the movable part is moved by an operator such that the snap emits a sharp, explosive sound and an information bearing portion, for example, a motto, previously concealed by the first movable part, is revealed.

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NOVELTY DEVICES

This invention relates to novelty devices.

According to one aspect of the present invention, a novelty device comprises a container arranged to be opened by at least one wall of the container moving outwardly relative to the container and sound producing means arranged to emit a sound when the container is opened.

The container may be arranged to be opened by at least one wall of the container moving outwardly relative to the container about a hinge or, more preferably, about a fold. Said hinge or fold is preferably provided between a base part of the container (which base part is preferably substantially flat) and said at least one wall. Said at least one wall is preferably an upwardly extending wall. Said wall is preferably substantially planar. Preferably, the container is arranged to be opened by two or more walls of the container moving outwardly relative to the container about a hinge or fold. At least two of said walls are preferably opposite to one another.

The sound producing means may be arranged to emit a sound by commencement of movement of at least one wall outwardly, or during movement of at least one wall outwardly.

The container may be of any suitable size and shape. Preferably, it comprises a single hollow region. In a preferred embodiment, it comprises a hollow substantially cube-shaped structure. It may comprise a trigonal pyramidical structure or a hexagonal structure.

The volume occupied by said container suitably represents at least 50% of the volume of said novelty device. Preferably, the volume occupied represents greater than about 75% of the novelty device. More preferably, the volume occupied represents greater than 90%. The volume occupied is suitably greater than 95%. The volume occupied by said container is preferably substantially equal to the volume occupied by said novelty device.

Preferably, the container is constructed from a self-supporting material, for example, from card or stiffened paper. The material preferably includes a decorative finish. The material may, for example, be foil-coated card. Preferably, the container is made from a single sheet of said self-supporting material by folding the material in a suitable fashion; that is, preferably each part of said container is an integral part (not a subsequently attached part) of a sheet of said self-supporting material. The container may be held together partially or completely simply by the interengagement of adjacent parts. The self-supporting material may be arranged so as to form said container and be held in position by adhesive means or by means of one or more tabs of the container engaging in slots provided in other parts of the container.

The device may include a first part and a second part arranged to be moved apart by an operator thereby to open the container and those parts may be gripped by an operator. The first part is suitably fixed to or adjacent to a first side of the container or is an integral part of the container. The second part is suitably fixed to or adjacent to a second side of the container or is an integral part of the container. The first part may be

fixed to or adjacent to a first inside wall of the container. Alternatively or additionally, the first part may extend to a small extent through the first inside wall, for example, it may extend through a slot therein, into which slot it may be secured. The second part may be fixed to or adjacent to a second inside wall of the container. Alternatively or additionally, the second part may extend to a small extent through the second inside wall, for example, it may extend through a slot therein, in which it may be secured. The second part of the device preferably comprises a user-operable operating member which may be, for example, a piece of string. The user-operable operating member suitably is disposed, in part, outside the container. Alternatively, the first and second parts of the opening means may comprise tab members which are, preferably, integral parts of the container outside the outline of the container structure and which may be used to open the container.

The first and second parts of the device are preferably directly connected to one another by a connecting member. Said connecting member preferably includes a sound producing strip of said sound producing means. Said connecting member may, alternatively or additionally, include a piece of string or like material. The connecting member may comprise a piece of string or like material fixed to a sound producing strip, the arrangement being fixed between said first and second parts. When provided, preferably, the sound producing strip is hidden from view, preferably within the container or, when provided, is substantially hidden by said tab members which are outside the outline of the container.

The sound producing means for producing a sound is suitably arranged to produce a sharp sound. It is

suitably arranged to be remotely actuated and is preferably substantially totally enclosed within the container. Said means may comprise a percussion cap. Suitably, said means comprises two thin strips which are joined together and a percussion cap arranged so that when said strips are urged apart, said percussion cap produces a sharp sound. Said means suitably comprise a member known as a "snap".

Preferably, the sound producing means produces the sound substantially at the same time as the container is opened.

The container, after opening, may be arranged to be closed again by moving at least one wall inwardly. The container may be arranged such that it is not destroyed when opened. It may be re-usable, at least in part. For example, only the sound production means may need replacing. The novelty device is suitably arranged such that, when fully open, it may assume a substantially flat structure.

Preferably, the novelty device further comprises novelty items, for example, within the container. The novelty items are preferably removable from the novelty device when the container has been opened. The device may be arranged so as to be opened without said sound producing means producing said sound so that a person may place items of his/her choice within the device.

The novelty device may further comprise information display means, suitably on an upstanding wall of the device, for displaying a person's name. The device may further comprise fixing means for hanging the device from a fixed structure, for example, from the branch of a

Christmas tree. Said fixing means may be provided by the piece of string of said aforementioned connecting member or by other suitable means.

According to another aspect of the invention, there is provided a novelty device having a substantially flat first surface, the device including a first part fixed so as to be disposed at or adjacent the first surface, the first part being moveable relative to said first surface, the device further including sound producing means arranged to produce a sound when the first part is moved relative to the first surface.

The first part may be fixed adjacent printed matter on the first surface. The printed matter may define, with the first part, an object, for example, a cracker. The device may include a second part fixed so as to be disposed at or adjacent to the first surface, and the first part may be connected to the second part.

Preferably, the first part is arranged to slide relative to said first surface or second part. Said sound producing means may be as described in any of the preceding statements. Said second part may be directly fixed to said surface. Said first part is suitably disposed adjacent said second part. Said first part suitably fits through a slot and is preferably attached to one end of said sound producing means. Said sound producing means is suitably fixed, at its other end, to a second surface, opposite said first surface.

Said first part may be arranged to reveal matter otherwise hidden, when it is moved relative to said second part. For example, when the first part is moved a motto may be revealed. Alternatively or additionally, the

novelty device may further comprise matter, for example, a motto, which is initially hidden, user-operable means being provided for revealing the hidden matter. Said user-operable means may include a perforated window.

According to a further aspect of the present invention a novelty device comprises a first part moveable relative to a second part with movement of the first part relative to the second part being arranged to cause sound producing means to produce a sound and to reveal a previously concealed information bearing portion previously concealed by one of the parts. At least one and preferably both of the parts are substantially flat.

Said aforementioned novelty devices may include a greetings card. Preferably, where provided, the first surface, the first part and the second part are disposed substantially in the same plane.

Specific embodiments of the invention, will now be described, by way of example, with reference to the accompanying diagrammatic drawings in which:

Figure 1a is a plan view of a piece of card arranged for assembly of a novelty device;

Figure 1b is a plan view of a "snap";

Figure 1c shows the snap attached to a part of the piece of card of the novelty device, shown in Figure 1a;

Figures 1d, 1e and 1f are respectively a perspective view, a side elevation from one side and a side elevation from another side of the assembled novelty device;

Figure 1g is a side elevation of the part within box "A" in Figure 1e with the dimensions exaggerated in the interests of clarity.

Figure 1h is a plan view showing a piece of card of a device similar to that of Figure 1a;

Figure 2a is a plan view of a piece of card arranged for the assembly of another novelty device;

Figure 2b is a detailed side elevation of the assembled device of Figure 2a, partly in cross-section;

Figure 2c is a less detailed side elevation of the assembled device of Figure 2a, partly in cross-section;

Figure 3a is a plan view of a piece of card arranged for the assembly of another novelty device;

Figures 3b and 3c are a side view, partly in cross-section, and a perspective view of the novelty device of Figure 3a respectively;

Figure 4a and b are side elevations of a further novelty device; and

Figure 5a and 5b are side elevations of a further novelty device similar to the Figure 4 embodiment.

A novelty device 20, shown in Figures 1d to f is made from a single piece of card 1, shown in Figure 1a, which card 1 has fold lines shown in dashed lines, between which are defined parts of a cube-shaped box 2 shown in Figures 1d to f.

The piece of card 1 (Figure 1a) comprises a base 3, four sides 4a-4d and a top 5. Sides 4b and 4d include two support flaps 6, 7 respectively. In addition, sides 4b and 4d are extended outwardly by means of tabs 8, 9, each of which includes tab parts a and b. A top support flap 10 extends from the top 5. A pair of trapezial-shaped lugs 30 are provided on two opposite sides of the top 5 so that two respective parallel sided slots 32 are defined adjacent to each of the opposite sides. The lugs are perforated along respective fold lines 36.

A "snap" 15, shown in Figure 1b, is made of thin card and comprises an explosive material in region 11. Parts 12, 13 of the snap 10 may be pulled apart, whereupon the explosive material emits a sharp sound.

The parts 12, 13 of the snap are fixed within the respective slots 32, with the snap underneath the top 5 of the piece of card 1. In this respect pieces 34 of double-sided sticky tape are stuck to the underside surfaces (as seen in Figure 1c) of the lugs 30 and parts 12, 13 of the snap.

The snap 15 is disposed generally within the cube-shaped structure when it is in the assembled state, as shown in Figure 1e, f and g. More particularly, a part 15a of the snap is disposed directly below and parallel to the top 5 of the device 20, and parts 15b and 15c are bent upwardly along with the respective parts of lugs 30 between which they are disposed. The double-sided sticky tape is then used to secure respective pairs of lugs 30 and parts 15b, 15c to the tabs 8a, 9a respectively. When so disposed, the parts 15b and 15c of the snap 15 are hidden, to some extent, below the respective tab parts 8b, 9b.

The novelty device may be assembled as follows. The snap 15 is initially fixed, using one sticky side of the pieces 34 of double-sided sticky tape, between the respective pairs of lugs 30, so as to be arranged as represented in Figure 1c. Then, the sides 4a-4d of the piece of card 1 are folded upwardly so as to be perpendicular to base 3. Flaps 6, 7 are folded inwardly so as to be perpendicular to side 4b, 4d and are arranged within adjacent sides 4a, 4c. The top 5 is folded downwardly perpendicular to side 4c and in turn the flap 10 is folded downwardly perpendicular to top 5. A novelty item is placed within the box to be formed. The flap 10 of the top 5 is then glued to the inside of the top of side 4a. The other sticky side of the pieces 34 of double-sided sticky tape is then stuck to the inside of tab parts 8a, 9a (see Figure 1g). Finally, tab parts 8b, 9b, are folded so as to be disposed at an acute angle to respective tab parts 8a, 9a to hide snap 15.

The novelty device may be given as a gift. It may include a label indicating a person's name and may then be placed at a dining table to indicate the seat at which the person should sit.

In use, a person grasps tabs 8a and 8b of device 20 between the fingers of one hand; tabs 9a and 9b are grasped between fingers of the other hand. The tabs 8, 9, are pulled apart which results in the lugs 30 being broken away from the top 5 along their respective perforated fold lines 36 with parts of the snap attached thereto. Accordingly, the parts 12, 13 of the snap 15 are urged apart so that a sharp sound is emitted and, in turn, the box 2 is pulled apart to reveal the novelty item therein.

The novelty device 600 shown in Figure 1h is the same as that shown in Figure 1a to 1g except for the following. The device 600 includes a rectangular tab 601, attached to side 4a, the tab 601 having hinged parts 604. A slot 602 is provided between top 5 and flap 10. In addition, locking tabs 603 are provided at spaced locations on respective tab parts 8b, 9b. To form a cube-shaped structure, tab 601 is disposed at right angles to side 4a and is inserted within slot 602. Hinged parts 604 are then folded inwardly to hold the structure together. Tab part 603 fit underneath top 5 so that respective parts 8b, 9b are disposed substantially parallel to respective parts 8a, 9a. The locking tabs 603 may engage in a gap defined between the top 5 and the sides 4b, 4d for holding the tab parts 8b 9b parallel to tab parts 8a, 9a.

A novelty device 40 shown in Figures 2b and 2c is made from a single piece of card 41 as shown in Figure 2a which card 41 has fold lines shown in dashed lines between which are defined parts of an hexagonal box 42, shown in Figures 2b and 2c.

The piece of card 41 comprises a base 43, six sides 44a-f and a top 45. Sides 44b-44f include a slot 46 therein into which respective tabs 47, extending from the top 45, are fitted, when assembled. Each side 44 includes a slot 47, into which a respective tab 48 on an adjacent side is fitted when assembled.

A snap 50 (Figure 2c) is fixed within the hexagonal box 42. In this regard, one end 51 of the snap 50 fits through a slot (not shown) in the centre of the base 43 of the box 42. The other end 52 of the snap is fixed to a piece of string 53 which, in turn, is pushed through a

hole (not shown) in the centre of the top 45 of the box 42.

Assembly of the novelty device 40 comprises folding sides 44 upwardly so as to be perpendicular to base 43; then respective tabs 48 are fitted into adjacent respective slots 47 to hold the sides in position. The snap 51 is fixed in base 43 and string 53 fitted through the centre of top 45. A novelty item is placed within the box to be formed. The top 45 is then closed and respective tabs 47 are engaged within respective slots 46 in sides 44.

In use, a person holds box 40 adjacent base 43 thereof and pulls string 53 outwardly. As a consequence the snap emits a sharp sound and, since part of the snap, too large to fit through the hole, is pulled against the top 45, the box opens to reveal the novelty item.

The novelty device 60, shown in Figures 3b and 3c, is made from a single piece of card 61, as shown in Figure 3a, which card 61 has fold lines shown in dashed lines between which lines are defined part of a pyramidical box 62, shown in Figure 3b and 3c.

The piece of card 61 comprises a base 63 and three sides 64a-c. Each of the sides 64 includes a securement flap 65.

A snap 66 is fixed within the pyramidical box 62, as shown in Figure 3b. In this regard, one end 67 of the snap 66 fits through a slot (not shown) in the centre of base 63 of the box 60, in which slot it is secured by means of adhesive tape. The other end 68 of the snap 66

is fixed to a piece of string 69 which, in turn, fits between the sides 64a-c at their point of intersection.

Assembly of the novelty device 60 comprises folding sides 64 upwardly so that the sides intersect. The snap 68 and string 69 are fixed in position. A novelty item is placed within the box 62 to be formed. Flaps 65 are then folded inwardly about 60°. The flaps 65 are arranged such that each flap 65 (e.g. flap 65b) overlies a respective adjacent side (e.g. side 64c). As a consequence, no additional means for the securing the arrangement is required.

In use, a person holds box 60 adjacent base 63 thereof and pulls the string 69 outwardly. Consequentially, the snap emits a sharp sound and the box opens to reveal the novelty item.

The aforementioned novelty devices may be fixed by means of a piece of string, for example, by string 53, 69, in the respective Figures 2 and 3 embodiments to, for example, a branch of a Christmas tree. Alternatively, they may be used simply as attractive means of presenting a gift.

The novelty devices are decorated in an attractive manner. For example, card from which devices are made be coated with coloured foil. A decorative ribbon may be fixed to a side of the device.

Any of the aforementioned novelty devices may be arranged such that a person, for example, a purchaser, may insert into the box their own gift. That is, a purchaser may customise his/her own device. In this regard the Figure 2 and 3 embodiments may be of particular utility

since no adhesive means is used to hold the box in its assembled state. The Figure 1 embodiment may include, in addition to the features on show, an additional securable flap in the base or other suitable position.

The device of some of the embodiments may not be destroyed when opened. Thus, the devices may be re-used. Device may be made in any desirable shape or size.

A novelty device 80, shown in Figures 4, is in the form of a greetings card having leaves 90, 92 and 93. Leaf 92 has a front face 81 (Figure 4a). The dashed lines in Figure 4b represent fold lines of the card.

Referring to Figure 4a, a representation of a cracker 83 is shown. This cracker is in two parts. A first part 84 comprises a piece of card stuck on the front face. A second part 85, forms one end of the cracker. It is made out of card and is arranged to be pulled away from part 84 in a longitudinal direction relative thereto. The part 85 fits through a slot 88 in leaf 92 and is attached to a snap 86 fixed to the rear face 81 (Figure 4b) by means of adhesive tape 87 so that when the part 85 is pulled the "snap" is actuated to give a sharp sound.

A motto 89 is printed on the rear face 81. The leaf 90 of the greetings card includes a perforated rectangular panel 91.

The greetings card may be assembled by inserting part 85 through slot 88, fixing part 85 to snap 86 and securing the snap in position by means of tape 87. Then leaf 90 is folded over face 81 of leaf 92 and glued in this position. Thus, leaves 90 and 92 appear to be a single component which defines the greetings card along with leaf 83.

In use, the part 85 may be pulled by a recipient of the device 80 to produce a sharp sound. The motto may be revealed by removing panel 91.

In another embodiment shown in Figures 5a and b, a novelty device 150 is in the form of a greetings card as described above. In this case, however, a rectangular slot 151 is provided in a leaf 152. The slot 151 is arranged such that a motto provided on one side of leaf 153 fits therewithin when leaves 152, 153 are stuck to one another. A front side 154 of leaf 152 includes a cardboard cracker first part 155 which is stuck over the slot 151 so as to provide an open end slot 158. The part 155 has a cut-out portion 156 of the same size as and, in use, superimposed upon slot 151. A cardboard, cracker second part 157 fits into open end slot 158 and is longitudinally slidable relative to part 155. The part 157 is thereby longitudinally slidable relative to part 155. The part 157 is attached to a snap 159 which is secured to side 160 of leaf 152.

In use, the part 157 is pulled in the direction of arrow 161, the snap 159 produces a sharp sound and the motto is revealed within the cut out portion 156.

The reader's attention is directed to all papers and documents which are filed concurrently with or previous to this specification and which are open to public inspection with this specification, and the contents of all such papers and documents are incorporated herein by reference.

All of the features disclosed in this specification (including any accompanying claims, abstract and drawings), and/or all of the steps of any method or

process so disclosed, may be combined in any combination, except combinations where at least some of such features and/or steps are mutually exclusive.

Each feature disclosed in this specification (including any accompanying claims, abstract and drawings), may be replaced by alternative features serving the same, equivalent or similar purpose, unless expressly stated otherwise. Thus, unless expressly stated otherwise, each feature disclosed is one example only of a generic series of equivalent or similar features.

The invention is not restricted to the details of the foregoing embodiment(s). The invention extends to any novel one, or any novel combination, of the features disclosed in this specification (including any accompanying claims, abstract and drawings), or to any novel one, or any novel combination, of the steps of any method or process so disclosed.

CLAIMS

1. A novelty device comprising a container arranged to be opened by at least one wall of the container moving outwardly relative to the container and sound producing means arranged to emit a sound when the container is opened.

2. A device according to Claim 1, wherein the container is arranged to be opened by at least one wall of the container moving outwardly relative to the container about a hinge or fold.

3. A device according to Claim 2, wherein said hinge or fold is provided between a base part of the container and said at least one wall.

4. A device according to any of the preceding claims, wherein said wall which is arranged to move outwardly is substantially planar.

5. A device according to any of the preceding claims, wherein the container is arranged to be opened by two or more walls of the container moving outwardly relative to the container about a hinge or fold.

6. A device according to any of the preceding claims, wherein said sound producing means is arranged to emit a sound by commencement of movement of at least one wall outwardly, or during movement of at least one wall outwardly.

7. A device according to any of the preceding claims, wherein the container comprises a single hollow region.

8. A device according to any of the preceding claims, wherein the container comprises a hollow substantially cube-shaped structure.

9. A device according to any of the preceding claims, wherein the volume occupied by said container suitably represents at least 50% of the volume of said novelty device.

10. A device according to any of the preceding claims, wherein the volume occupied by said container is substantially equal to the volume occupied by said novelty device.

11. A device according to any of the preceding claims, wherein the container is constructed from self-supporting material.

12. A device according to any of the preceding claims, wherein the container is made from a single sheet of self-supporting material by folding the material in a suitable fashion.

13. A device according to any of the preceding claims, wherein the device includes a first part and a second part arranged to be moved apart by an operator thereby to open the container.

14. A device according to Claim 13, wherein the first and second parts comprise tab members which are integral parts of the container outside the outline of a hollow part of the container structure.

15. A device according to Claim 13 or Claim 14, wherein the first and second parts are directly connected to one another by a connecting member.

16. A device according to Claim 15, wherein said connecting member includes a sound producing strip of said sound producing means.

17. A novelty device having a substantially flat first surface, the device including a first part fixed so as to be disposed at or adjacent the first surface, the first part being movable relative to said first surface, the device further including sound producing means arranged to produce a sound when the first part is moved relative to the first surface.

18. A device according to Claim 17, wherein the first part is fixed adjacent printed matter on the first surface.

19. A device according to Claim 17 or Claim 18, wherein the first part is arranged to slide relative to said first surface.

20. A novelty device comprising a first part movable relative to a second part with movement of the first part relative to the second part being arranged to cause sound producing means to produce a sound and to reveal a previously concealed information bearing portion previously concealed by one of the parts.

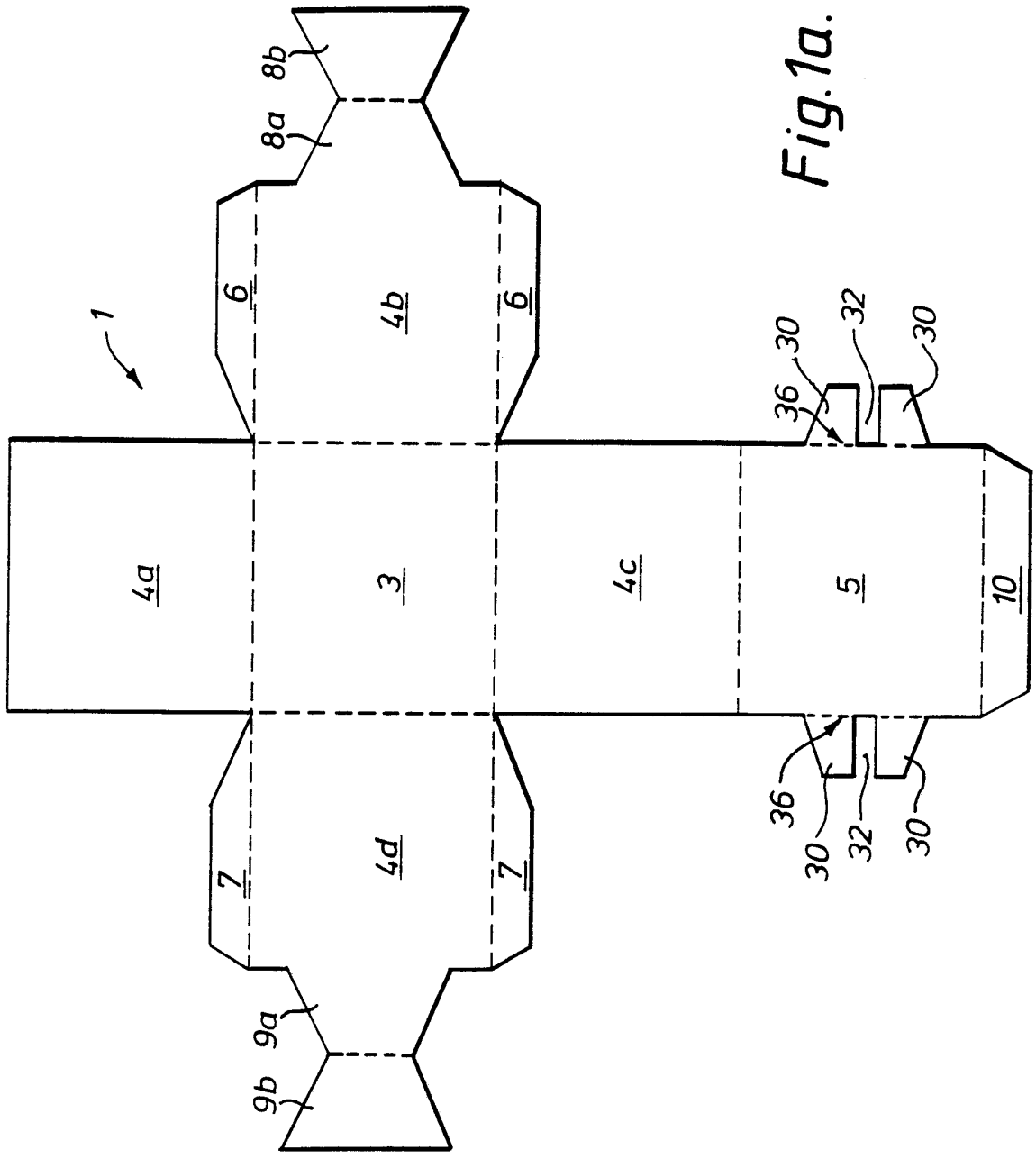


Fig.1a.

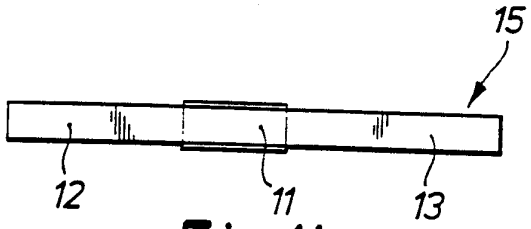


Fig.1b.

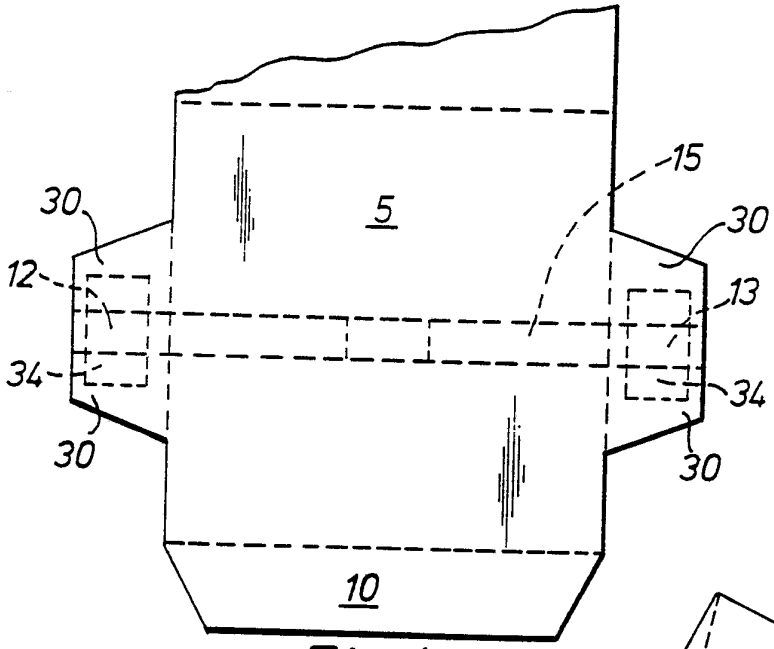


Fig.1c.

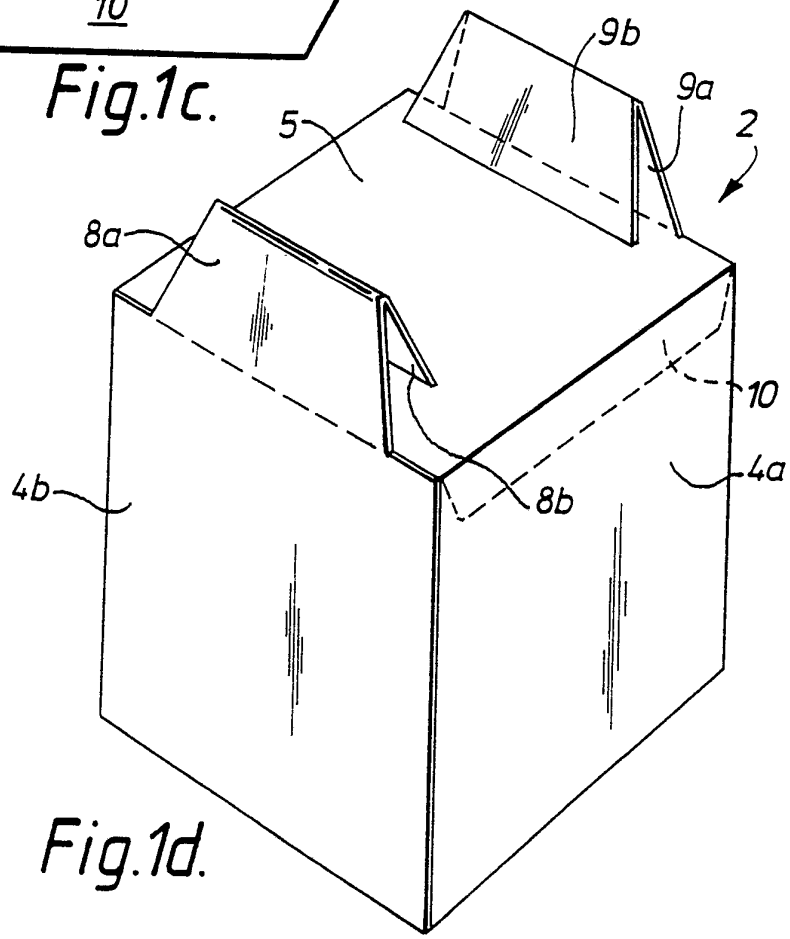


Fig.1d.

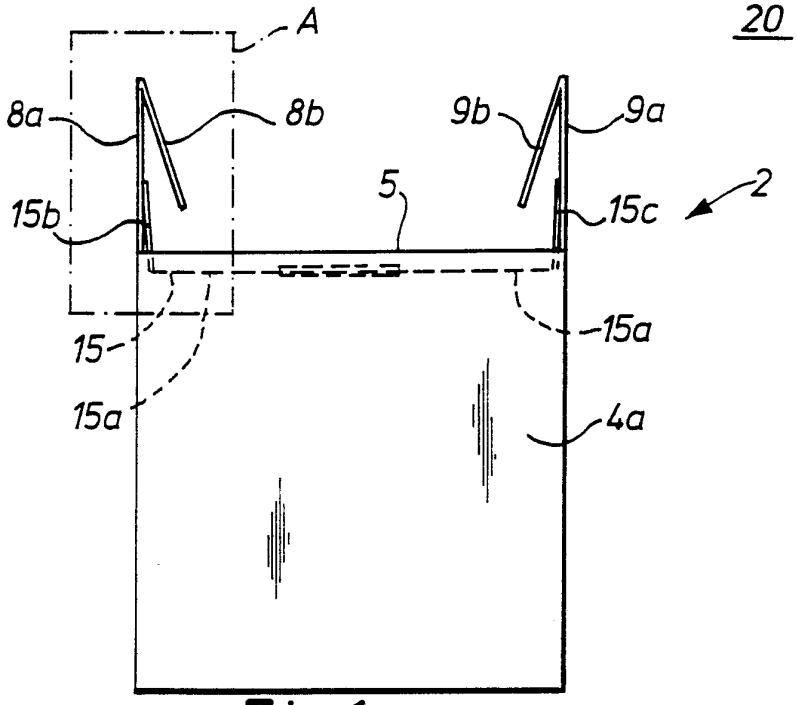


Fig.1e.

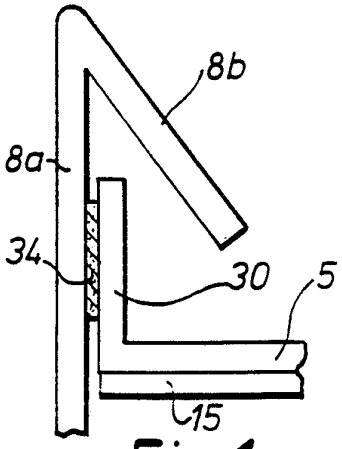


Fig.1g.

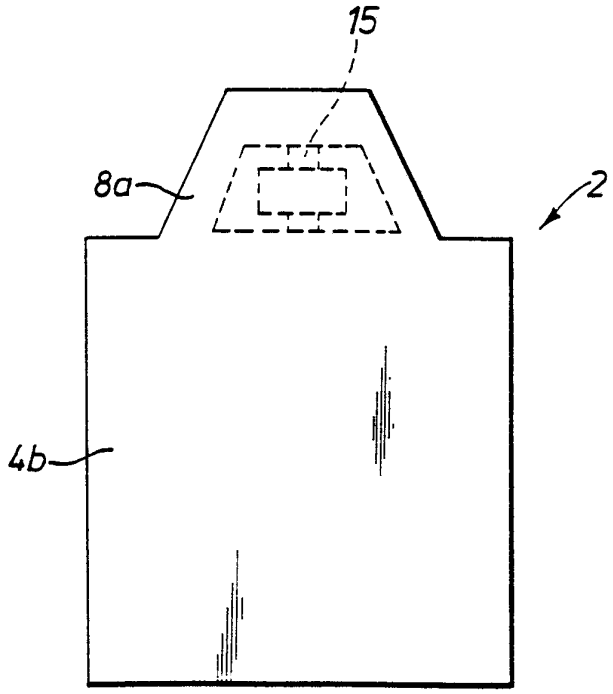


Fig.1f.

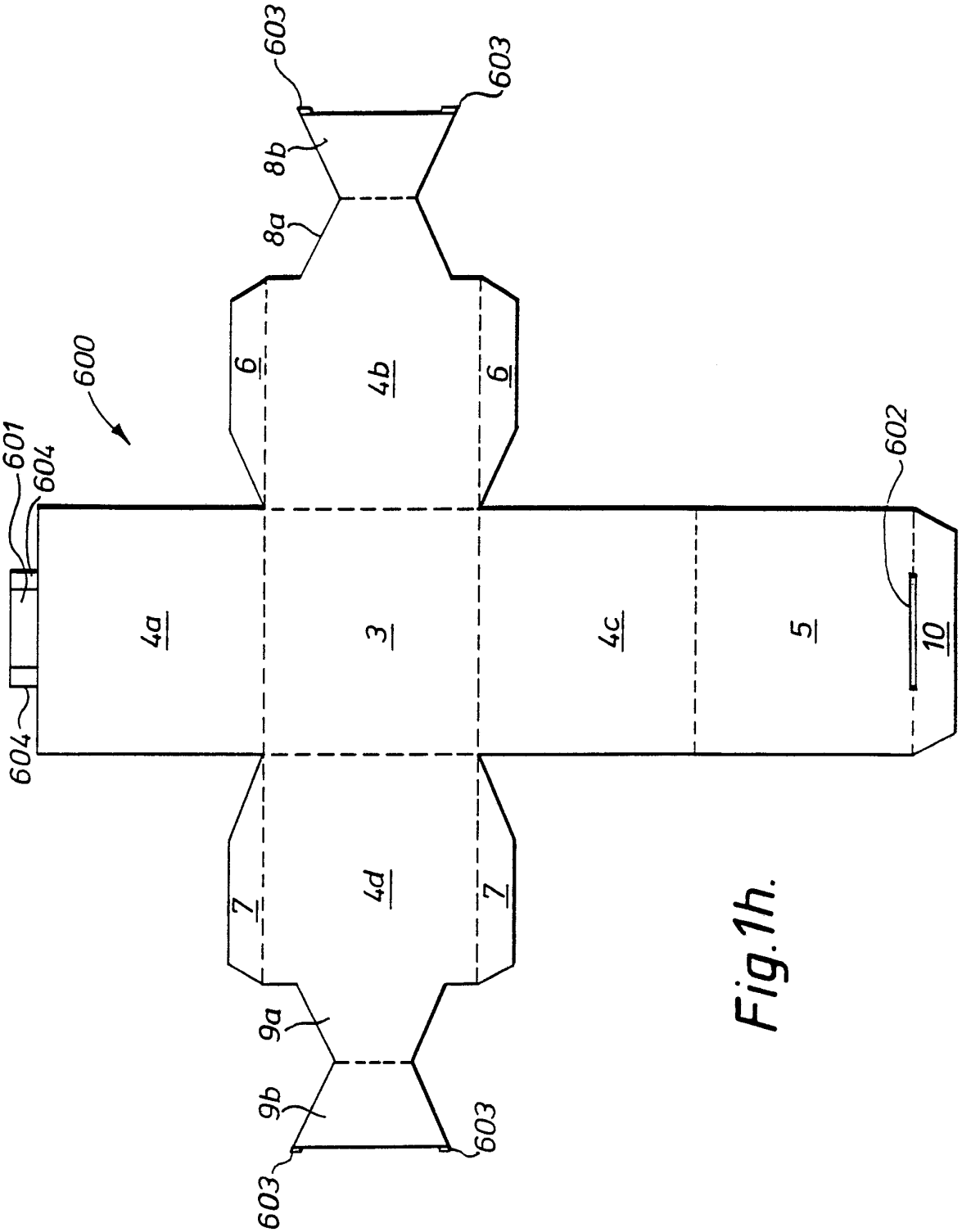

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603
603

Fig.1h.

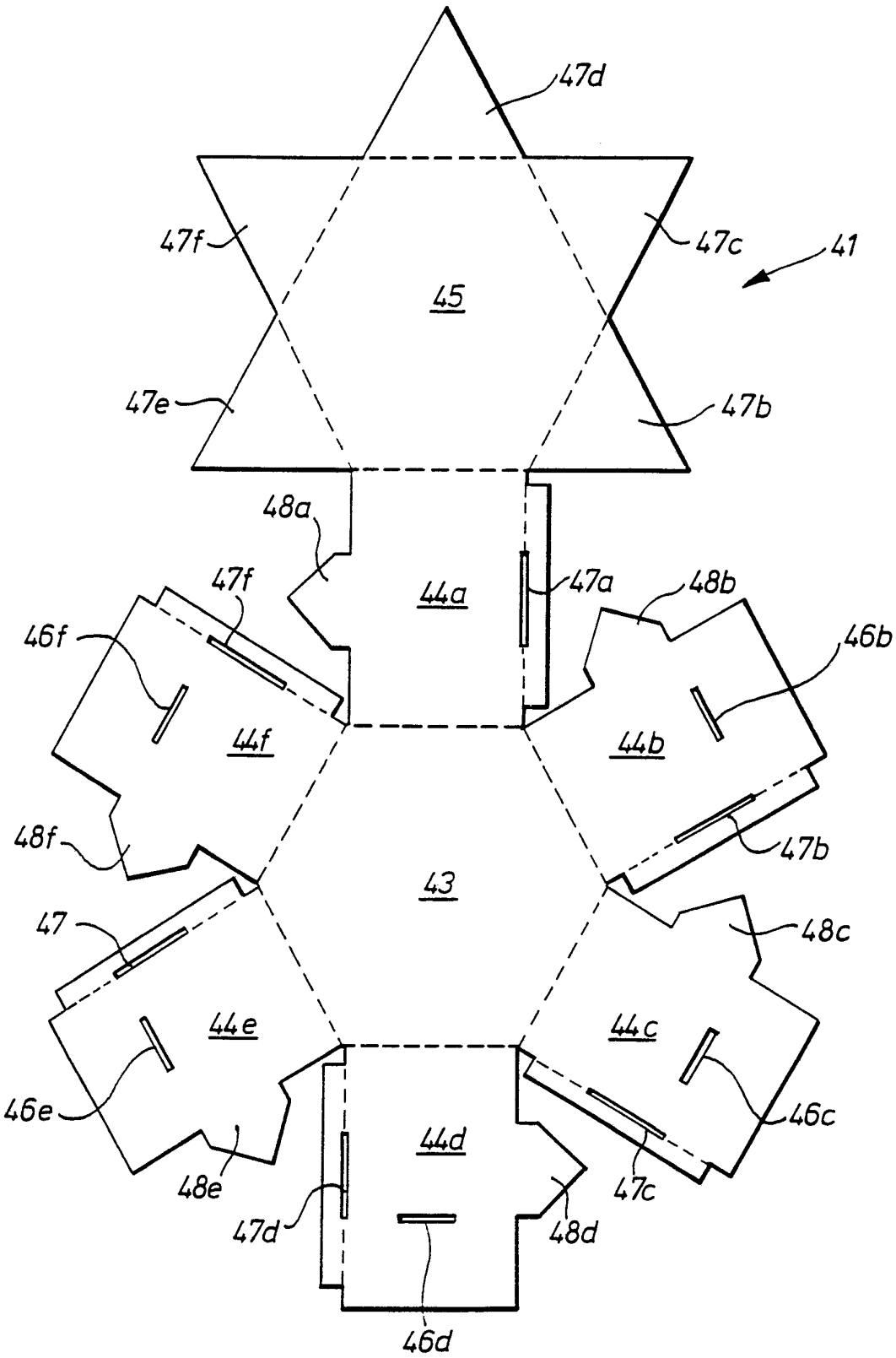

47d
47f
47c
41
45
47e
47b
48a
47f
44a
47a
48b
46b
46f
44f
44b
48f
47b
43
47
48c
44e
44c
46e
46c
44d
48e
47d
47c
48d
46d

Fig.2a.

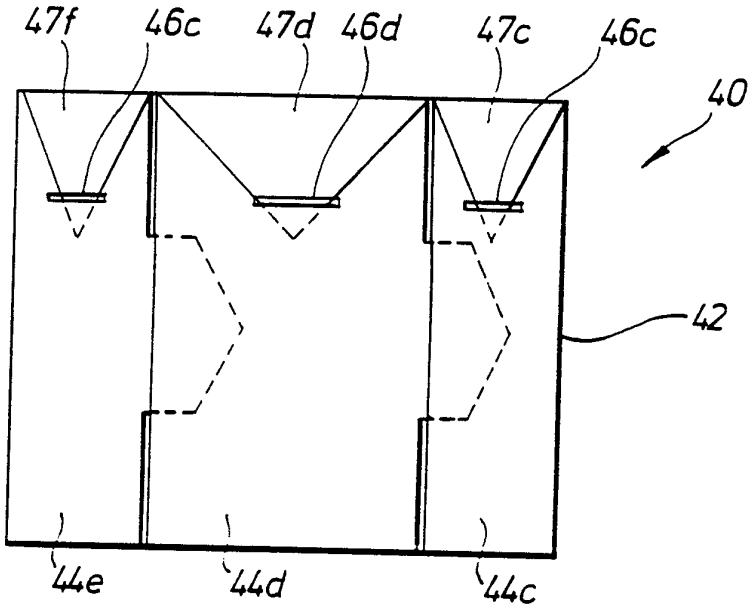

47f
46c
47d
46d
47c
46c
40
42
44e
44d
44c

Fig.2b.

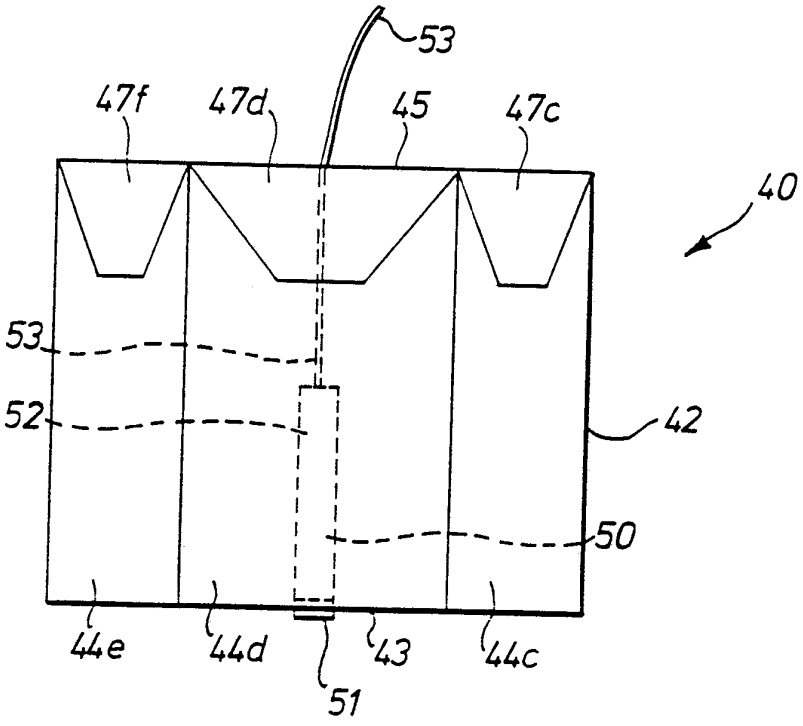

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47f
47d
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47c
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44e
44d
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44c
51

Fig.2c.

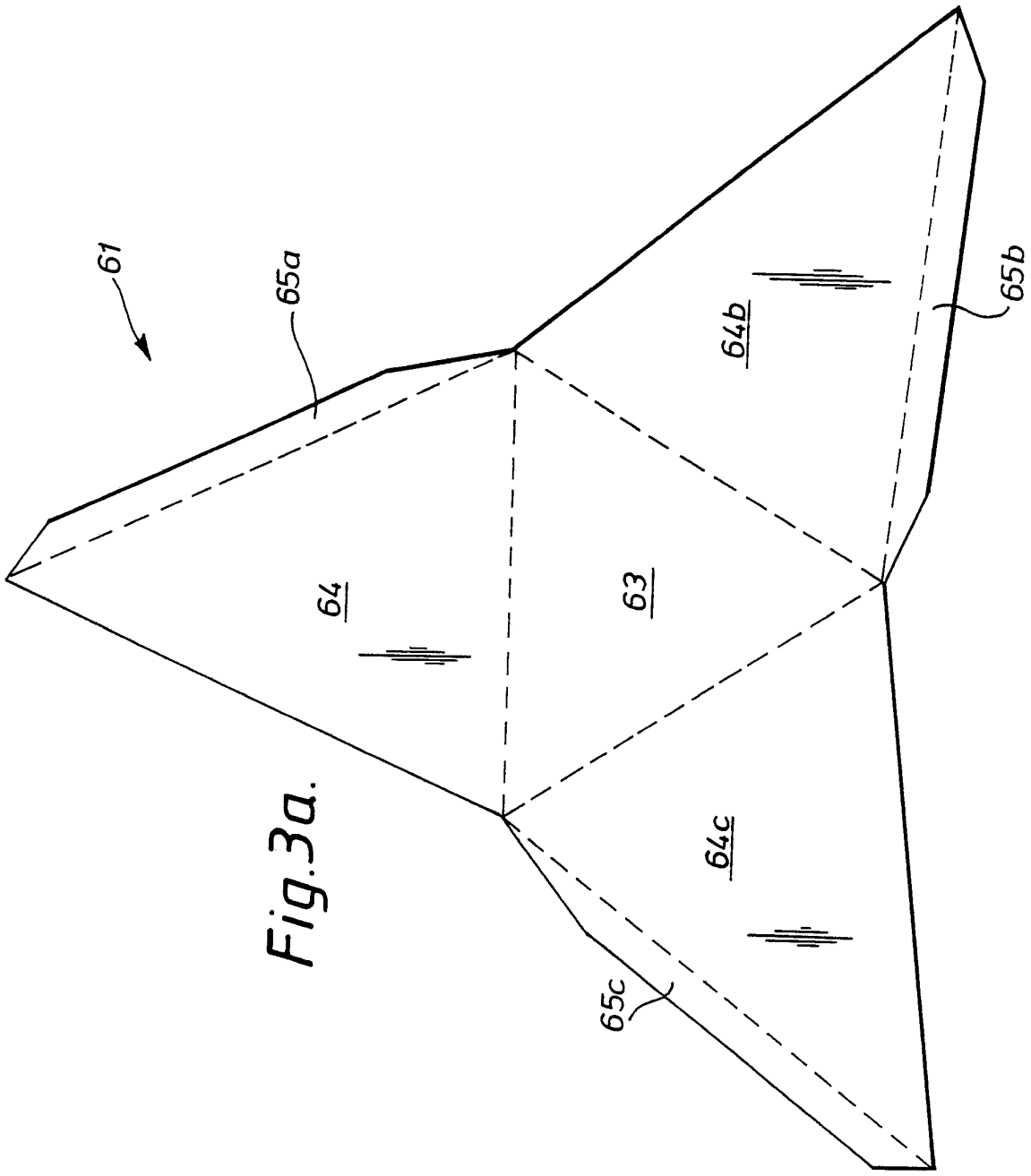


Fig.3a.

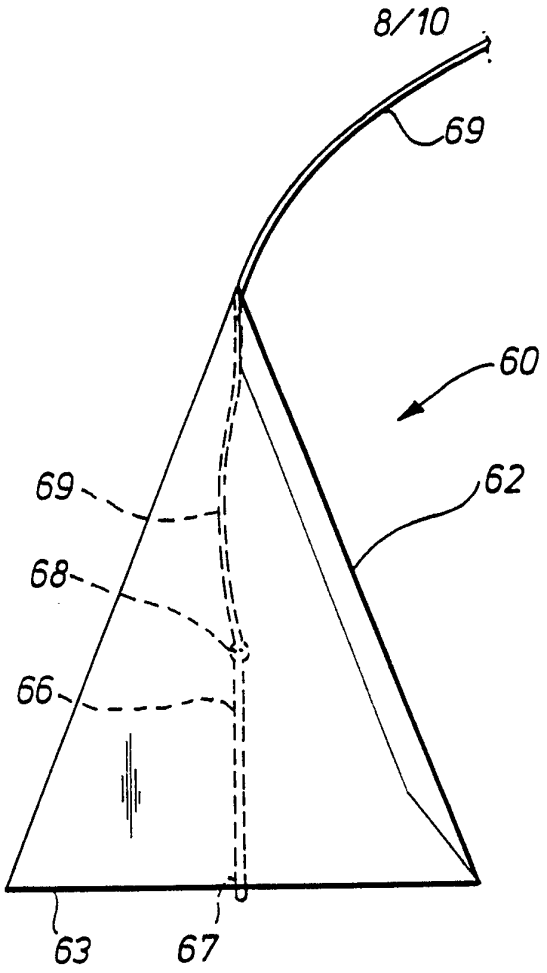


Fig. 3b.

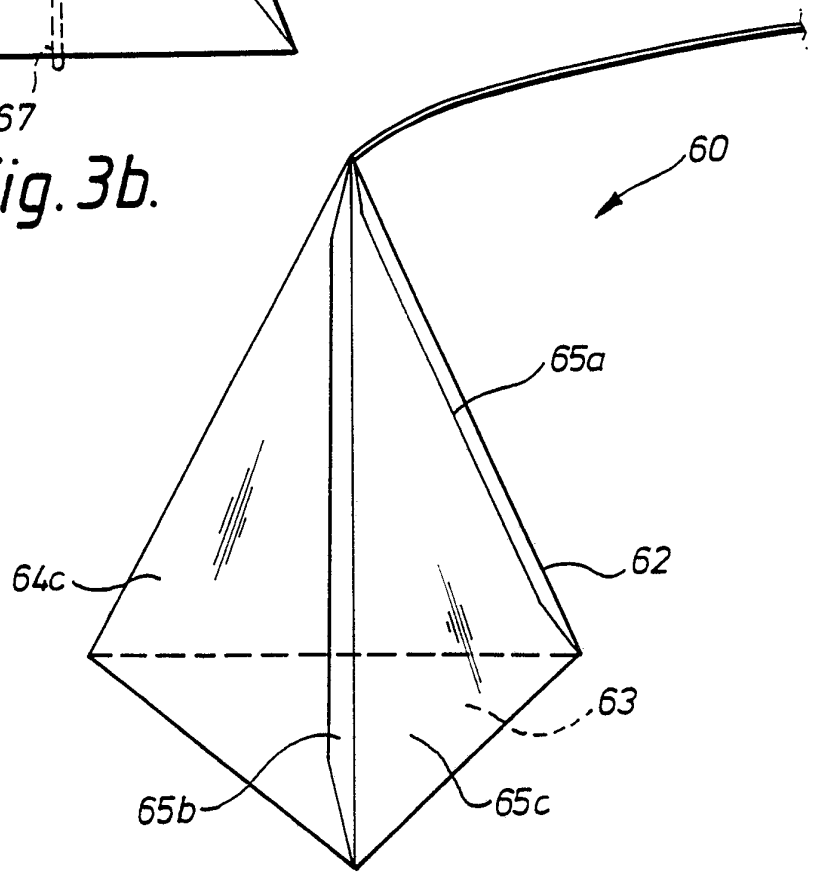


Fig. 3c.

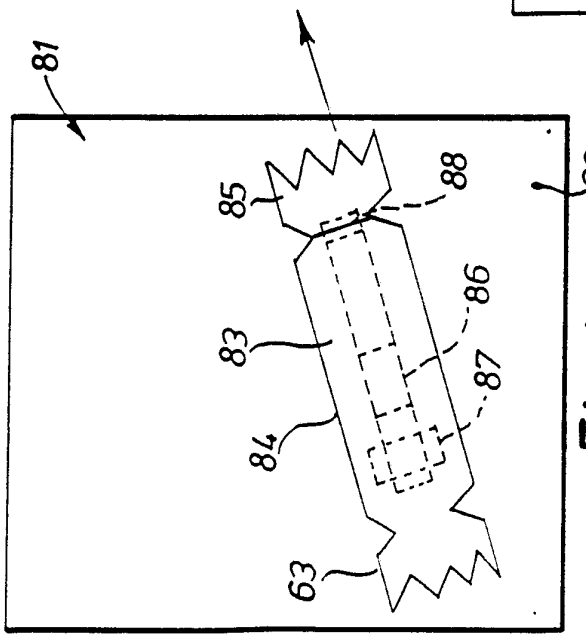


Fig.4a.

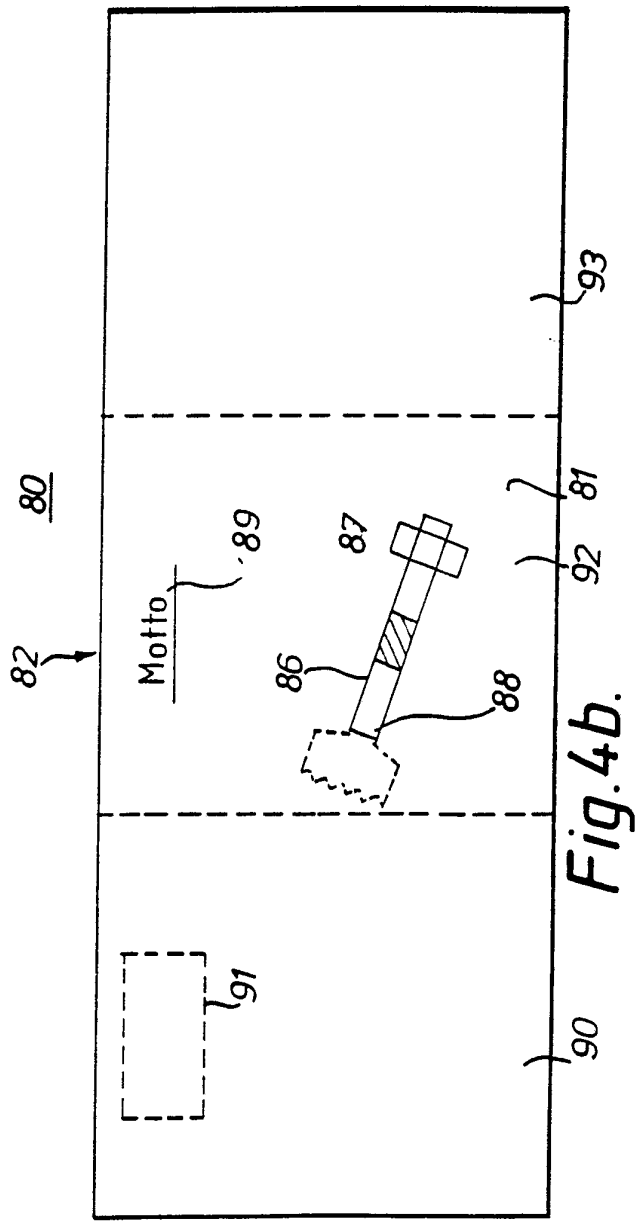


Fig.4b.

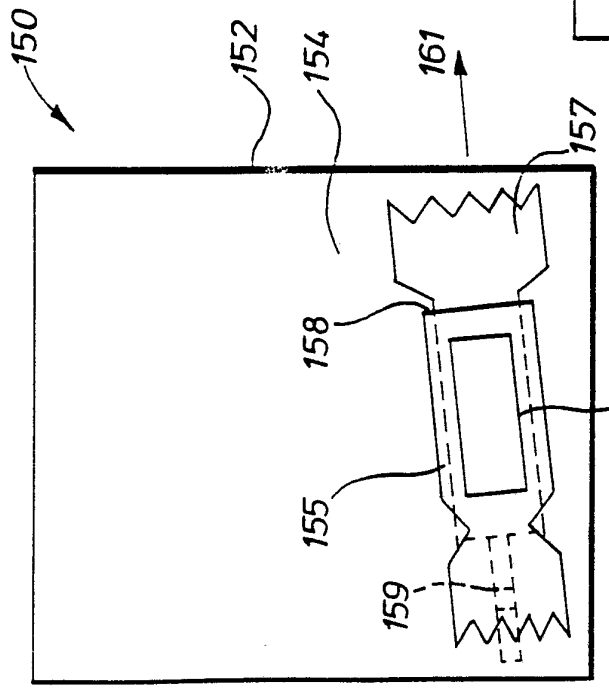

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Fig.5a.

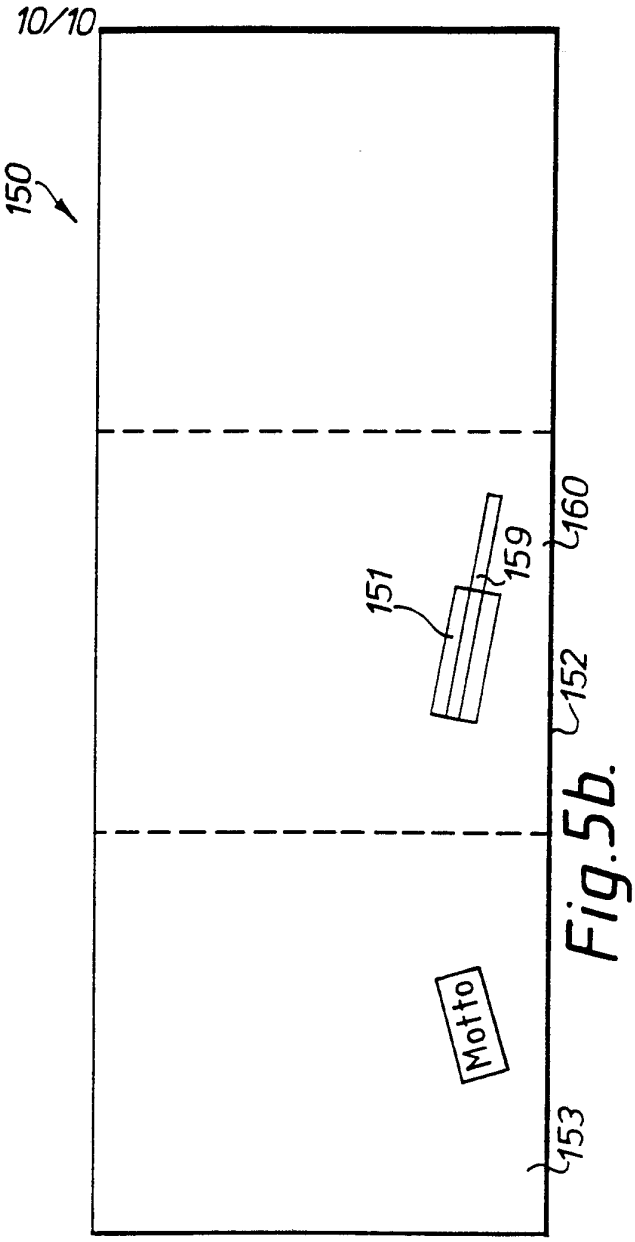

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Motto
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Fig.5b.

INTERNATIONAL SEARCH REPORT

International Application No PCT/GB 92/00162

I. CLASSIFICATION OF SUBJECT MATTER (if several classification symbols apply, indicate all)[6]

According to International Patent Classification (IPC) or to both National Classification and IPC

Int.Cl. 5 B65D5/42

II. FIELDS SEARCHED

Minimum Documentation Searched[7]

Classification System	Classification Symbols
Int.Cl. 5	B65D ; B42D ; F42B ; A63H

Documentation Searched other than Minimum Documentation to the Extent that such Documents are Included in the Fields Searched[8]

III. DOCUMENTS CONSIDERED TO BE RELEVANT[9]

Category °	Citation of Document,[11] with indication, where appropriate, of the relevant passages[12]	Relevant to Claim No.[13]
X	EP,A,0 174 913 (A.WINDEL) 19 March 1986 see abstract; figures ---	1-17
X	EP,A,0 253 003 (A.WINDEL) 20 January 1988 see abstract; figures ---	1,17-19
X	GB,A,2 137 560 (D.CHUNG) 10 October 1984 see abstract; figures ---	1,2, 10-13, 17,18,20
X	WO,A,8 501 448 (J.SOMERS) 11 April 1985 see abstract; figures ---	1,2,4,7, 8,11,12, 17

° Special categories of cited documents :[10]

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"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.

"&" document member of the same patent family

IV. CERTIFICATION

Date of the Actual Completion of the International Search	Date of Mailing of this International Search Report
22 APRIL 1992	13. 05. 92
International Searching Authority	**Signature of Authorized Officer**
EUROPEAN PATENT OFFICE	AMEDEO ZANGHI

ANNEX TO THE INTERNATIONAL SEARCH REPORT ON INTERNATIONAL PATENT APPLICATION NO. GB 9200162 SA 55748

This annex lists the patent family members relating to the patent documents cited in the above-mentioned international search report. The members are as contained in the European Patent Office EDP file on 22/04/92
The European Patent Office is in no way liable for these particulars which are merely given for the purpose of information.

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		CA-A- 1261793	26-09-89
		US-A- 4607747	26-08-86
EP-A-0253003	20-01-88	None	
GB-A-2137560	10-10-84	None	
WO-A-8501448	11-04-85	EP-A- 0156800	09-10-85