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SECRET

A toy building set with wall elements

The present invention concerns a toy building set with wall elements which are constructed as box-shaped elements having outer and inner facade sides, said inner facade side being open, said wall elements comprising a first type having at least one opening in the outer facade side, said opening serving as a window or a door in the element, and a second type formed with partitions to define shelves having shelf openings in the inner facade side of the element, hinge parts being provided at the window openings or the door openings and the shelf openings for the mounting of a removable, pivotable plate element.

These wall elements may thus be used for the construction of facades of a toy house in which windows or doors may selectively be mounted on the outer side of the facade and shelf systems may be provided on the inner side of the facade. Since the wall elements thus comprise a type which is provided with shelves on the inner facade side of wall elements, this prior art provide the advantage that it is not necessary for the toy building set to use separate shelf elements for mounting interiorly in a toy house which is constructed from the wall elements, since the shelf parts are built into individual ones of the elements.

These known elements may moreover be provided with doors and windows, as needed.

Thus, when these wall elements are used in connection with toy building sets, the interconnection of the elements may be varied to a very great extent, such that a relatively small number of elements provides many possible variations for the construction of toy houses.



In this connection, it is the object of the present invention to provide a toy building set with wall elements which, other things being equal, is capable of offering even more variations for the construction of toy houses, using the same number of or fewer individual parts in the toy building set.

This is achieved using wall elements of the type mentioned in the opening paragraph, which are constructed such that the hinge parts of the door or window openings and the shelf openings are identical, and in that the size of the window openings and of the shelf openings corresponds to integer multiples of the size of the plate element.

Since the plate element may thus constitute a door, a window or the like, it is possible to change these plate elements about, so that the plate element may have several functions. This means that e.g. a plate element intended for use as a window in a facade element can also be used as a door in the system of shelves, i.e. the interior which is established in the construction of a toy house. In contrast, a plate element according to the prior art intended to be included in the toy building set as a window element can just be used for this purpose.

Thus, the use of the wall elements of the invention makes it possible to build a house facade with e.g. windows which are completely open, i.e. no pivotal plate elements are mounted in the window opening, without the plate elements necessarily being superfluous since these may be used in this situation as doors for the shelves on the inner side of the house facade.

Particularly discrete hinge parts without protruding parts are obtained when the hinge parts are positioned inter- only in the door or window openings and the shelf openings



on the elements, as stated in claim 2.

5 The door or window openings and the shelf openings may either be provided with hinge parts just at one side of the openings, or at both sides of the openings, as stated in claims 3 and 4, thereby enabling the plate elements to be positioned in different ways in the openings.

10 The engagement means defined in claim 5, which protrude into the openings, ensure that the plate elements cannot be pressed into the wall element.

15 It is stated in claim 6 that the wall element may have the same outer dimensions, although this is not a prerequisite for the advantages of the invention to be achieved. However, this ensures that the wall elements are mutually exchangeable in a given wall structure, such that the construction of a wall structure may be varied additionally.

20 Expedient embodiments of the invention will be described below with reference to the drawing, in which

fig. 1 is an oblique front and top view of a first wall element according to the invention with a window opening.

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Fig. 2 is an oblique top and rear view of a second element according to the invention with shelf parts.

30 According to the invention, a toy building set comprises two types of wall elements, which may each be represented by the wall elements according to fig. 1 and fig. 2, respectively.

35 Fig. 1 thus shows a wall element 1 which is constructed as a box-shaped element having two side faces 2 and 3, as well as a base 4 and a top face 5. In addition, the wall



element 1 has an outer facade side 6 which is formed with a window opening 7, as well as an inner facade side 8 which is open.

5 The wall element 1 with a window may thus be used as part of a wall structure, since the element may be built together with other similar elements, e.g. the element shown in fig. 2.

10 The window opening 7 in the wall element 1 is provided with hinge parts 9 at both sides in which a pivotable and removable plate-shaped element may be mounted; this element is not shown for clarity, but is of a generally known type, which may e.g. be constructed as a window or a
15 shutter. The plate-shaped element is provided with hinge parts in a known manner which are complementary to the hinge parts 9, so that the plate-shaped element, following mounting in the hinge parts 9, may be opened and closed.

20 Fig. 2 thus shows the second type of wall element 10, which is likewise open on the inner facade side, and which likewise comprises side faces 2 and 3, as well as a base 4 and a top face 5. The outer facade side is completely closed here, so that the outer facade side of the wall
25 presents a plane face. In addition, this element 10 is provided with a system of shelves on its inner facade side, since the partitions 13 and 14 divide the interior of the element into separate compartments which thus constitute the system of shelves. The openings of the system
30 of shelves are directed toward the inner facade side of the wall element and are provided with hinge parts 9, which are identical with the hinge parts shown in fig. 1.

35 According to the invention, and as shown in figs. 1 and 2, the shelf openings on the wall element 10 and the window opening on the wall element 1 are dimensioned such that



windows, shutters or the like which fit into the hinge parts 9 on one element, also fit into hinge parts 9 on the other element.

5 It is hereby ensured that the wall element may be used both with and without windows, shutters, doors or the like. In addition, these windows, shutters, doors or the like may selectively be placed in one or the other element so as to provide a far greater range for the variation of
10 the use of these elements.

It is clear that these shown embodiments of the basic principle of the invention may be varied in many ways; thus, the outer dimensions of the wall elements may be the
15 same or different, as needed, although it is preferred that they are the same, since this provides additional possibilities of varying the construction of a wall facade. In addition, the compartmentalization in the wall element 10 may be such as to provide a larger number of
20 compartments, and the positions of these may be varied.

Similarly, the opening, which is a window opening in fig. 1, may equally well be a door opening, so that the wall element constitutes a door element. As stated above, the
25 wall element to be mounted in the hinge part 9 in the openings of the wall elements 1, 10 may be constructed in many ways, i.e. there may e.g. be clear, translucent sections on the element so that this may form a window or a transparent door, or the element may be completely opaque,
30 so that the element may form a window shutter, a door or the like.

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P a t e n t C l a i m s :

1. A toy building set with wall elements (1, 10) which
5 are constructed as box-shaped elements having outer and
inner facade sides, said inner facade side being open,
said wall elements (1, 10) comprising a first type with at
least one opening (7) in the outer facade side, said open-
10 ing serving as a window or a door in the element, and a
second type provided with partitions (13, 14) to define
shelves with shelf openings in the inner facade side of
the element, hinge parts (9) being provided at the window
or door openings and the shelf openings for the mounting
15 of a removable, pivotable plate element, c h a r a c -
t e r i z e d in that the hinge parts (9) on the door or
window openings and the shelf openings are identical, and
that the size of the window openings and the shelf open-
ings corresponds to integer multiples of the size of the
plate element.
- 20 2. A toy building set according to claim 1, c h a r a c -
t e r i z e d in that the hinge parts (9) are positioned
interiorly in the door or window openings and the shelf
openings.
- 25 3. A toy building set according to claim 1 or 2, c h a -
r a c t e r i z e d in that the door or window openings
and the shelf openings have hinge parts (9) only at one
side of the openings.
- 30 4. A toy building set according to claim 1 or 2, c h a -
r a c t e r i z e d in that the door or window openings
and the shelf openings have hinge parts (9) at both sides.
- 35 5. A toy building set according to one of claims 2-4,
c h a r a c t e r i z e d in that the door or window





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openings and the shelf openings are formed with engagement means (15) which protrude into the openings so that the plate elements are prevented from pivoting into the openings.

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6. A toy building set according to one of the preceding claims, characterized in that the wall elements (1, 10) have identical outer dimensions.

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A toy building set with wall elements

ABSTRACT

5 A set of wall elements for a toy building set for the construction of facade structures. The wall elements comprise two types, viz. a first type formed with window openings or door openings with hinge parts for suspension of door flaps or window flaps or shutters, as well as a second
10 type constructed as a system of shelves on the inner side of the wall element, the openings of said system of shelves being provided with hinge parts to receive doors in the system of shelves. The openings of the system of shelves and the window and/or door openings are similar in
15 such a manner that e.g. doors for the system of shelves, i.e. the second type of elements, fit either as doors-shutters in the window openings or as doors in the door openings on the first type of wall element.

20 Fig. 1 should be published.

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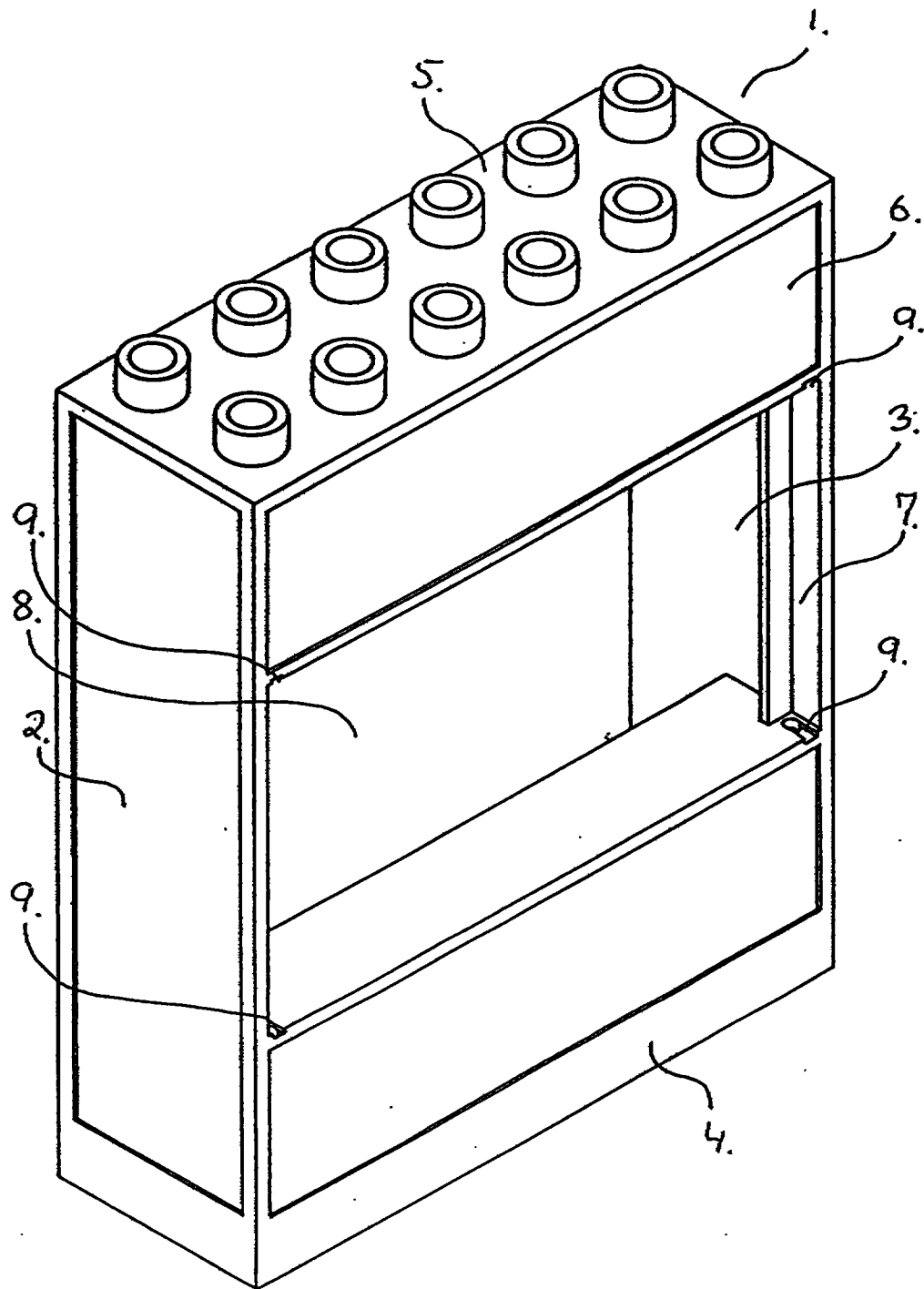


Fig. 1.



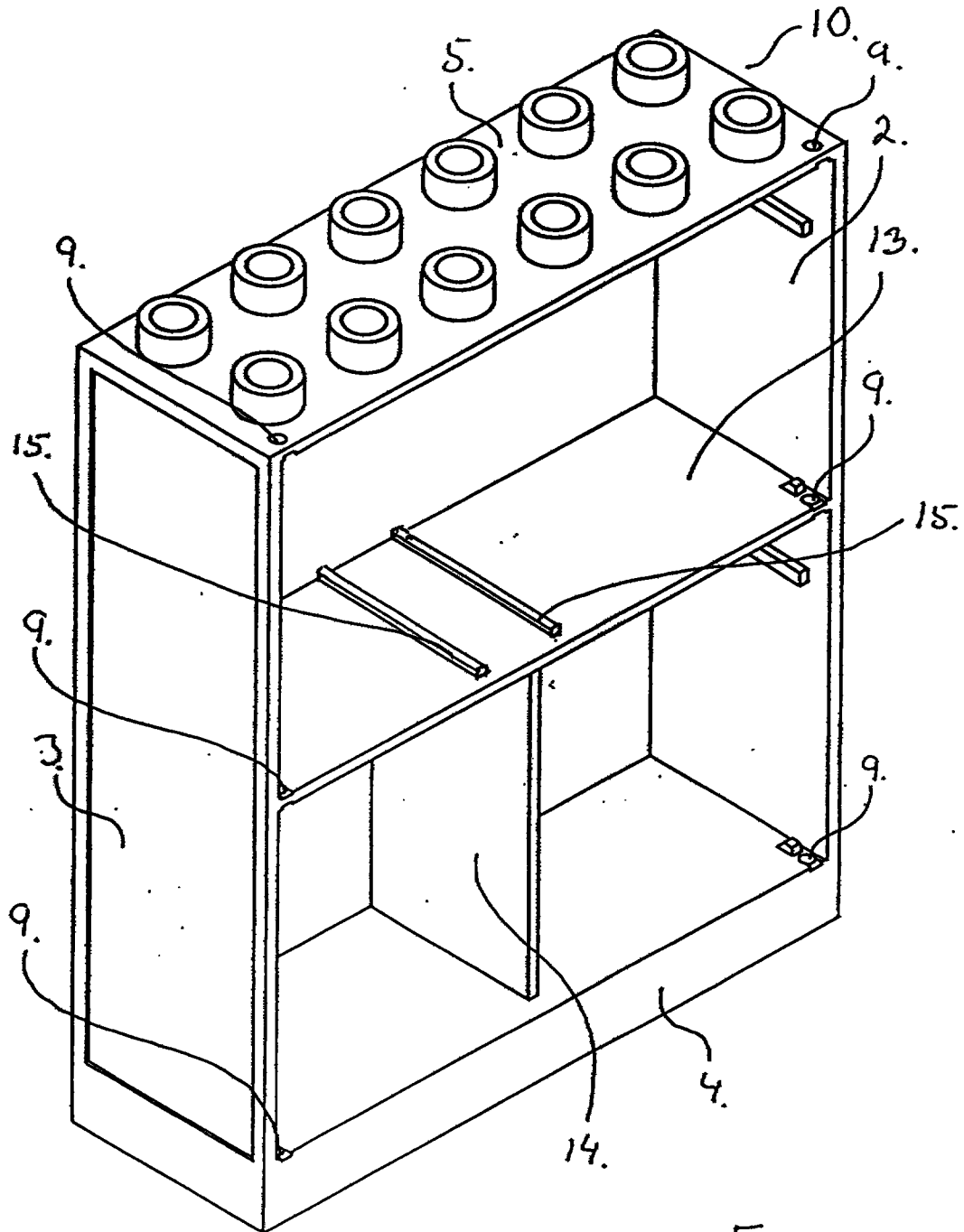


Fig. 2.



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7. to paged 11.A toy building set with wall elements

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The present invention concerns a toy building set with wall elements which are constructed as box-shaped elements having outer and inner facade sides, said inner facade side being open, said wall elements comprising a first type having at least one opening in the outer facade side, said opening serving as a window or a door in the element, and a second type formed with partitions to define shelves having shelf openings in the inner facade side of the element, hinge parts being provided at the window openings or the door openings and the shelf openings for the mounting of a removable, pivotable plate element.

These wall elements may thus be used for the construction of facades of a toy house in which windows or doors may selectively be mounted on the outer side of the facade and shelf systems may be provided on the inner side of the facade. Since the wall elements thus comprise a type which is provided with shelves on the inner facade side of wall elements, this prior art provide the advantage that it is not necessary for the toy building set to use separate shelf elements for mounting interiorly in a toy house which is constructed from the wall elements, since the shelf parts are built into individual ones of the elements.

These known elements may moreover be provided with doors and windows, as needed.

Thus, when these wall elements are used in connection with toy building sets, the interconnection of the elements may be varied to a very great extent, such that a relatively small number of elements provides many possible variations for the construction of toy houses.

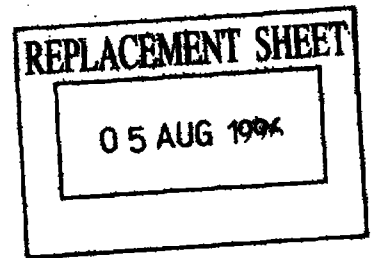
In this connection, it is the object of the present invention to provide a toy building set with wall elements which, other things being equal, is capable of offering even more variations for the construction of toy houses, using the same number of or fewer individual parts in the toy building set.

This is achieved using wall elements of the type mentioned in the opening paragraph, which are constructed such that the hinge parts of the door or window openings and the shelf openings are identical, and in that the size of the window openings and of the shelf openings corresponds to integer multiples of the size of the plate element.

Since the plate element may thus constitute a door, a window or the like, it is possible to change these plate elements about, so that the plate element may have several functions. This means that e.g. a plate element intended for use as a window in a facade element can also be used as a door in the system of shelves, i.e. the interior which is established in the construction of a toy house. In contrast, a plate element according to the prior art intended to be included in the toy building set as a window element can just be used for this purpose.

Thus, the use of the wall elements of the invention makes it possible to build a house facade with e.g. windows which are completely open, i.e. no pivotal plate elements are mounted in the window opening, without the plate elements necessarily being superfluous since these may be used in this situation as doors for the shelves on the inner side of the house facade.

Particularly discrete hinge parts without protruding parts are obtained when the hinge parts are positioned inter-
only in the door or window openings and the shelf openings



on the elements, as stated in claim 2.

The door or window openings and the shelf openings may either be provided with hinge parts just at one side of the openings, or at both sides of the openings, as stated in claims 3 and 4, thereby enabling the plate elements to be positioned in different ways in the openings.

The engagement means defined in claim 5, which protrude into the openings, ensure that the plate elements cannot be pressed into the wall element.

It is stated in claim 6 that the wall element may have the same outer dimensions, although this is not a prerequisite for the advantages of the invention to be achieved. However, this ensures that the wall elements are mutually exchangeable in a given wall structure, such that the construction of a wall structure may be varied additionally.

Expedient embodiments of the invention will be described below with reference to the drawing, in which

fig. 1 is an oblique front and top view of a first wall element according to the invention with a window opening.

Fig. 2 is an oblique top and rear view of a second element according to the invention with shelf parts.

According to the invention, a toy building set comprises two types of wall elements, which may each be represented by the wall elements according to fig. 1 and fig. 2, respectively.

Fig. 1 thus shows a wall element 1 which is constructed as a box-shaped element having two side faces 2 and 3, as well as a base 4 and a top face 5. In addition, the wall

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element 1 has an outer facade side 6 which is formed with a window opening 7, as well as an inner facade side 8 which is open.

The wall element 1 with a window may thus be used as part of a wall structure, since the element may be built together with other similar elements, e.g. the element shown in fig. 2.

The window opening 7 in the wall element 1 is provided with hinge parts 9 at both sides in which a pivotable and removable plate-shaped element may be mounted; this element is not shown for clarity, but is of a generally known type, which may e.g. be constructed as a window or a shutter. The plate-shaped element is provided with hinge parts in a known manner which are complementary to the hinge parts 9, so that the plate-shaped element, following mounting in the hinge parts 9, may be opened and closed.

Fig. 2 thus shows the second type of wall element 10, which is likewise open on the inner facade side, and which likewise comprises side faces 2 and 3, as well as a base 4 and a top face 5. The outer facade side is completely closed here, so that the outer facade side of the wall presents a plane face. In addition, this element 10 is provided with a system of shelves on its inner facade side, since the partitions 13 and 14 divide the interior of the element into separate compartments which thus constitute the system of shelves. The openings of the system of shelves are directed toward the inner facade side of the wall element and are provided with hinge parts 9, which are identical with the hinge parts shown in fig. 1.

According to the invention, and as shown in figs. 1 and 2, the shelf openings on the wall element 10 and the window opening on the wall element 1 are dimensioned such that

windows, shutters or the like which fit into the hinge parts 9 on one element, also fit into hinge parts 9 on the other element.

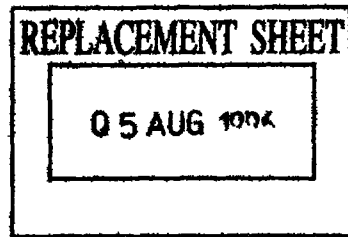
It is hereby ensured that the wall element may be used both with and without windows, shutters, doors or the like. In addition, these windows, shutters, doors or the like may selectively be placed in one or the other element so as to provide a far greater range for the variation of the use of these elements.

It is clear that these shown embodiments of the basic principle of the invention may be varied in many ways; thus, the outer dimensions of the wall elements may be the same or different, as needed, although it is preferred that they are the same, since this provides additional possibilities of varying the construction of a wall facade. In addition, the compartmentalization in the wall element 10 may be such as to provide a larger number of compartments, and the positions of these may be varied.

Similarly, the opening, which is a window opening in fig. 1, may equally well be a door opening, so that the wall element constitutes a door element. As stated above, the wall element to be mounted in the hinge part 9 in the openings of the wall elements 1, 10 may be constructed in many ways, i.e. there may e.g. be clear, translucent sections on the element so that this may form a window or a transparent door, or the element may be completely opaque, so that the element may form a window shutter, a door or the like.



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P a t e n t C l a i m s :

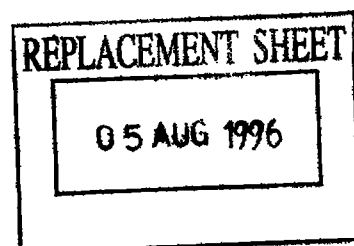
1. A toy building set with wall elements (1, 10) which are constructed as box-shaped elements having outer and inner facade sides, said inner facade side being open, said wall elements (1, 10) comprising a first type with at least one opening (7) in the outer facade side, said opening serving as a window or a door in the element, and a second type provided with partitions (13, 14) to define shelves with shelf openings in the inner facade side of the element, hinge parts (9) being provided at the window or door openings and the shelf openings for the mounting of a removable, pivotable plate element, c h a r a c - t e r i z e d in that the hinge parts (9) on the door or window openings and the shelf openings are identical, and that the size of the window openings and the shelf openings corresponds to integer multiples of the size of the plate element.
2. A toy building set according to claim 1, c h a r a c - t e r i z e d in that the hinge parts (9) are positioned interiorly in the door or window openings and the shelf openings.
3. A toy building set according to claim 1 or 2, c h a - r a c t e r i z e d in that the door or window openings and the shelf openings have hinge parts (9) only at one side of the openings.
4. A toy building set according to claim 1 or 2, c h a - r a c t e r i z e d in that the door or window openings and the shelf openings have hinge parts (9) at both sides.
5. A toy building set according to one of claims 2-4, c h a r a c t e r i z e d in that the door or window



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openings and the shelf openings are formed with engagement means (15) which protrude into the openings so that the plate elements are prevented from pivoting into the openings.

6. A toy building set according to one of the preceding claims, characterized in that the wall elements (1, 10) have identical outer dimensions.

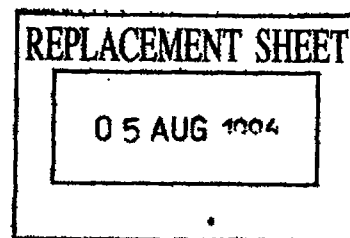


A toy building set with wall elements

ABSTRACT

A set of wall elements for a toy building set for the construction of facade structures. The wall elements comprise two types, viz. a first type formed with window openings or door openings with hinge parts for suspension of door flaps or window flaps or shutters, as well as a second type constructed as a system of shelves on the inner side of the wall element, the openings of said system of shelves being provided with hinge parts to receive doors in the system of shelves. The openings of the system of shelves and the window and/or door openings are similar in such a manner that e.g. doors for the system of shelves, i.e. the second type of elements, fit either as doors-shutters in the window openings or as doors in the door openings on the first type of wall element.

Fig. 1 should be published.



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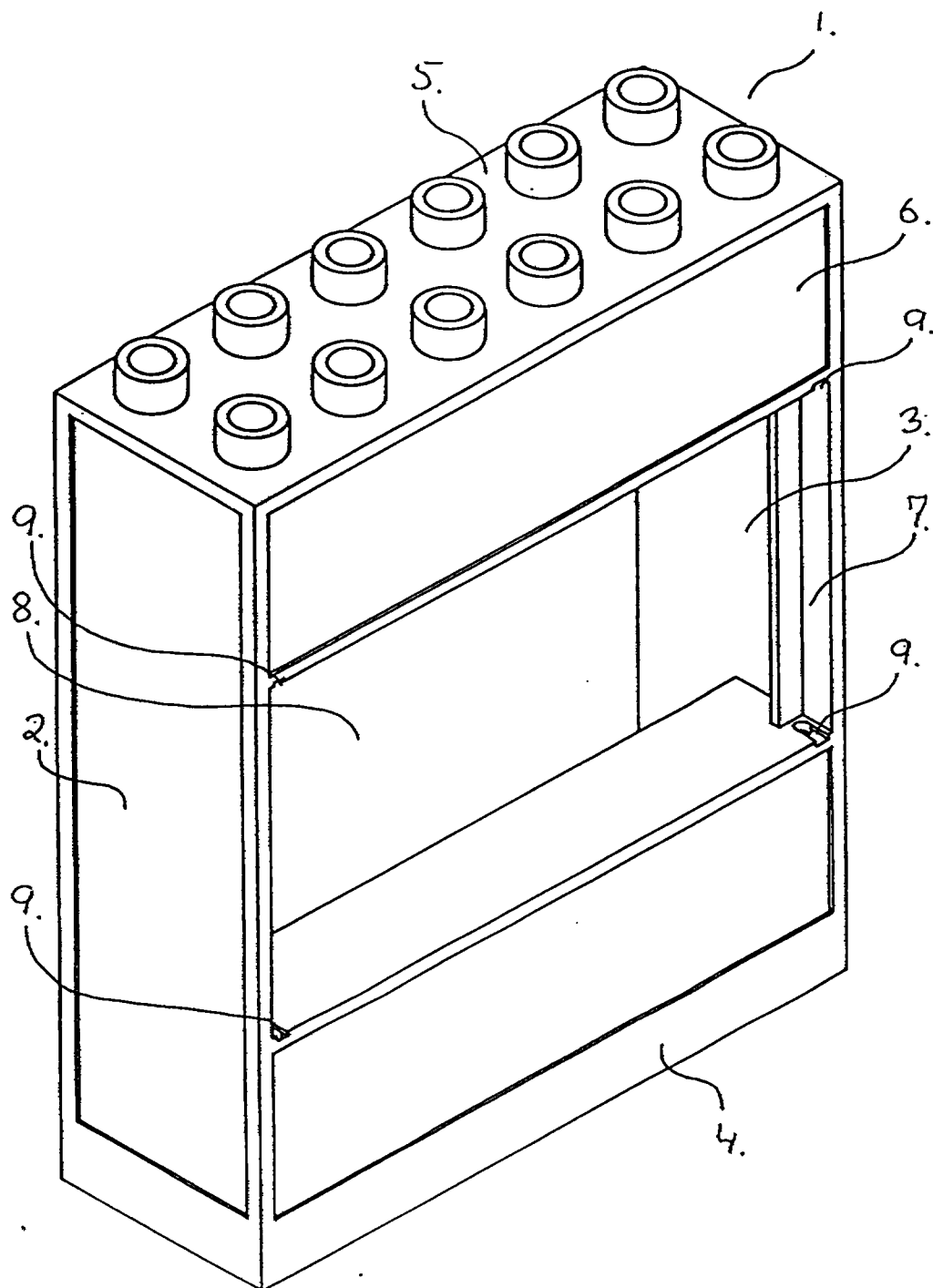


Fig. 1.

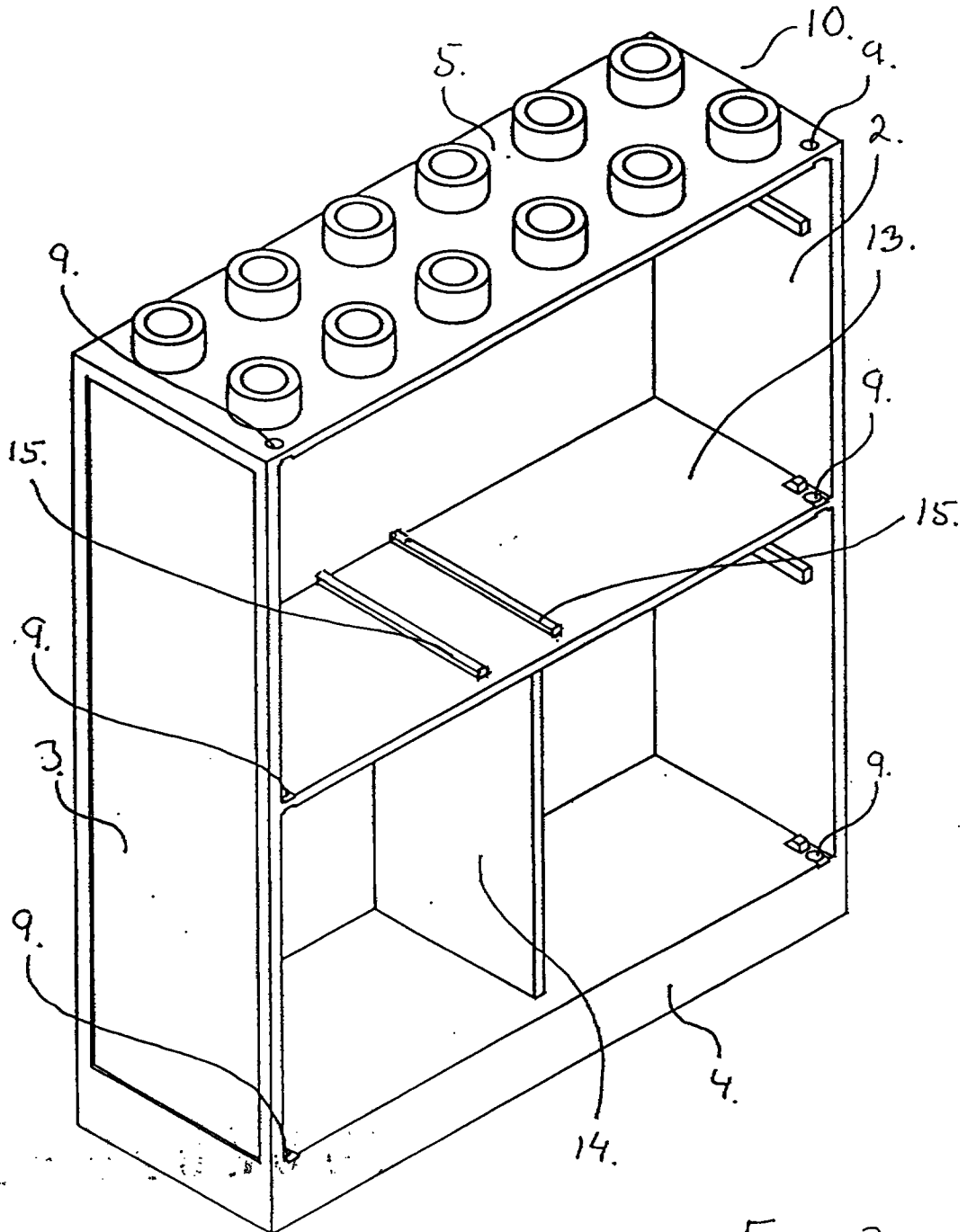


Fig. 2.