

PACKAGING MATERIAL WITH ADJUSTING BLOCKS

BACKGROUND OF THE INVENTION

Technical Field

[0001] The present invention relates generally to a packaging material, and more particularly to a packaging material with adjusting blocks.

Description of Related Art

[0002] A conventional cushioning material used in conventional packaging materials in the electronic industry, such as a plastic tray or a foamed tray, is to provide a receiving space, which is customized to match with a packaged item and is in different shapes and sizes, in a tray, so that the packaged item, such as electronic products, is placed in the receiving space, and then the packaging materials are boxed for transportation or storage.

[0003] Although the conventional packaging materials have the packaging function, the conventional packaging materials are customized for disposable use and hence cannot be used in different products. Moreover, packaging different products requires packaging cushioning materials with different receiving spaces. Once the packaged electronic products are changed in design, the prepared packaging materials become improper and are consequently discarded. Additionally, different packaging materials also require different molds, which results in higher production costs. When the packaging materials for products with small quantity are produced, the requirement for the minimum production quantity of the packaging materials still needs to be met, so that the production of the packaging materials exceeds the actual demand. As a result, the conventional packaging materials have drawbacks of causing inventory waste, high costs and being environmentally unfriendly and non-recyclable and non-reusable.

BRIEF SUMMARY OF THE INVENTION

[0004] In view of the above, the primary objective of the present invention is to provide a packaging material, wherein adjusting blocks are assembled to form receiving spaces in different shapes on a base for packaging items in different sizes based on the requirements. As both of the base and the adjusting blocks are recyclable, reusable, and commonly used to be environmentally friendly, and are suitable for packaging packaged items with different sizes without customizing different packaging materials when the design of the packaged items is changed, thereby improving the commonly used character and the reusability and reducing costs.

[0005] The present invention provides a packaging material with adjusting blocks, including a base and a plurality of enclosing blocks. The base has a plurality of insertion holes arranged in a matrix arrangement. Each of the plurality of enclosing blocks has an enclosing portion and at least one insertion portion extending downwards from a bottom side of the enclosing portion, wherein the at least one insertion portion of each of the plurality of enclosing blocks is selectively inserted into one of the plurality of insertion holes for fixing, so that the enclosing portions of the plurality of enclosing blocks encloses to form at least one receiving space on the base.

[0006] Preferably, an inner portion of each of the plurality of enclosing blocks is hollow. The enclosing portion and the at least one insertion portion of each of the plurality of enclosing blocks are connected to each other to form a housing. The enclosing portion of each of the plurality of enclosing blocks at least covers two of the insertion holes from above. A cross section of the enclosing portion of each of the plurality of enclosing blocks in a horizontal direction is in a rectangular shape or a L-shape. A protruding rib is formed by protruding outward from a periphery of the at least one insertion portion of each of the plurality of enclosing blocks. The protruding rib of the at least one insertion portion of each

of the plurality of enclosing blocks abuts against a peripheral wall of one of the plurality of insertion holes for fixing.

[0007] Preferably, a periphery of the enclosing portion has a side sheet. A periphery of the at least one insertion portion of each of the plurality of enclosing blocks has a side sheet. The side sheet of the enclosing portion of each of the plurality of enclosing blocks is in an inclined shape with a wide top and a narrow bottom. A slot is formed on a top edge of the side sheet of the enclosing portion. The side sheet of the at least one insertion portion of each of the plurality of enclosing blocks is in an inclined shape with a wide top and a narrow bottom. Another enclosing block is selectively inserted into the slot of one of the plurality of enclosing blocks. A shape of the another enclosing block is the same as a shape of the enclosing block being inserted, so that the enclosing blocks are stacked and raised.

[0008] When the present invention is used, packaged items, such as electronic products and semi-finished products, are packaged in the receiving space enclosed by the enclosing portions of the enclosing blocks on the base, so that the packaged items are stably disposed in the packaging material with the adjusting blocks, and then the packaging material with the adjusting blocks or multiple packaging material with the adjusting blocks that are stacked vertically is/are packaged in a packaging box.

[0009] With the aforementioned design, the enclosing blocks in different numbers are inserted into different positions of the base, so that at least one receiving space for packaging is enclosed to form on the base, wherein a suitable receiving space could be formed on the base depending on the size and shape of the packaged product (item). As the enclosing blocks are reusable, the present invention is recyclable, reusable, and commonly used to be environmentally friendly. When the shape and the design of the product is changed, the shape and size of the receiving space could be adjusted to meet the packaging requirements by inserting the enclosing blocks into different positions of the base. In this way, the present invention could avoid storing different packaging materials suitable for

products in different sizes and has the economic benefit of reducing the costs of the packaging material due to the low inventory, thereby fulfilling the trend of reducing packaging materials and meeting environmental requirements in the industry.

BRIEF DESCRIPTION OF THE SEVERAL VIEWS OF THE DRAWINGS

[0010] The present invention will be best understood by referring to the following detailed description of some illustrative embodiments in conjunction with the accompanying drawings, in which

[0011] FIG. 1 is a perspective view of the packaging material with the adjusting blocks according to a first embodiment of the present invention;

[0012] FIG. 2 is an exploded view of FIG. 1;

[0013] FIG. 3 is a top view of FIG. 1;

[0014] FIG. 4 is a sectional view along the 4-4 line in FIG. 3;

[0015] FIG. 5A is a perspective view of the enclosing block in the first shape;

[0016] FIG. 5B is a top view of FIG. 5A;

[0017] FIG. 5C is a sectional view along the 5C-5C line in FIG. 5B;

[0018] FIG. 5D is a sectional view along the 5D-5D line in FIG. 5B;

[0019] FIG. 6 is a perspective view of the enclosing block in the second shape;

[0020] FIG. 7 is a perspective view of the enclosing block in the third shape;

[0021] FIG. 8 is a perspective view of the enclosing block in the fourth shape;

[0022] FIG. 9A is a perspective view of the raising block;

[0023] FIG. 9B is a top view of FIG. 9A;

[0024] FIG. 9C is a sectional view along 9C-9C line in FIG. 9B;

[0025] FIG. 10A is an exploded view of the base according to another embodiment of the present invention;

[0026] FIG. 10B is a perspective view of FIG. 10A, showing the two plates being assembled;

[0027] FIG. 11 is a perspective view of the packaging material with the adjusting blocks according to a second embodiment of the present invention;

[0028] FIG. 12 is a top view of FIG. 11;

[0029] FIG. 13 is a partially exploded view, showing the packaging material with the adjusting blocks according to the second embodiment of the present invention being boxed in the packaging box;

[0030] FIG. 14 is a top view, showing the packaging material with the adjusting blocks according to the second embodiment of the present invention being boxed in the packaging box; and

[0031] FIG. 15 is a sectional view along the 15-15 line in FIG. 14.

DETAILED DESCRIPTION OF THE INVENTION

[0032] A packaging material with adjusting blocks 100 according to a first embodiment of the present invention is illustrated in FIG. 1 to FIG. 4 and includes a base 10 and a plurality of enclosing blocks 20 detachably engaged on the base 10.

[0033] The base 10 has a plurality of insertion holes 12 arranged in a matrix arrangement. In the current embodiment, each of the insertion holes 12 is a square hole vertically penetrating through the base 10, and the insertion holes 12 are distributed throughout the base 10. In other embodiments, each of the insertion holes 12 could be in a circular shape or a polygonal shape; the plurality of insertion holes 12 arranged in the matrix arrangement could be disposed only on a part of the base 10 depending on the packaging requirements.

[0034] In the current embodiment, seven enclosing blocks 20 that are detachable are engaged on the base 10, wherein each of the enclosing blocks 20 has an enclosing portion 22 and at least one insertion portion 24 extending downwards from a bottom side of the enclosing portion 22. A shape of the at least one insertion portion 24 of each of the enclosing blocks 20 matches with a shape of each of the insertion holes 12, the at least one insertion

portion 24 of each of the enclosing blocks 20 could be selectively inserted into one of the insertion holes 12 for fixing, so that the enclosing portions 22 of the enclosing blocks 20 enclose to form two receiving spaces A on the base 10.

[0035] In the current embodiment, a cross section of the enclosing blocks 20 in a horizontal direction is in rectangular shapes with different lengths or in a L-shape. In other embodiments, the enclosing portion 22 of each of the enclosing block 20 could be in other shapes depending on the packaging requirements, and a plurality of enclosing blocks 20 having the enclosing portion 22 in the same shape or in different shapes are correspondingly inserted into the insertion holes 12 on the base 10 depending on the number of packaged items B packaged on the base 10 and a boundary occupied by a shape of the packaged items B, so that one or more receiving spaces A are surrounded to form on the base 10 as required.

[0036] In the current embodiment, when the packaged item B has an uneven bottom and is required to be elevated, two raising blocks 30 are respectively inserted into two of the insertion holes 12 located within the receiving space A receiving the packaged item B. Each of the raising blocks 30 has an insertion portion 32 and a raising portion 34 formed on a top end of the insertion portion 32 of the raising block 30. The insertion portion 32 of each of the raising blocks 30 is correspondingly inserted into one of the insertion holes 12 for fixing. A height of the raising portion 34 of each of the raising blocks 30 inserted into the base 10 is between a top surface of the base 10 and a height of the enclosing blocks 20 inserted into the base 10 for fixing. In other embodiments, only one raising block 30 could be inserted into one of the insertion holes 12 located within the receiving space A or three or more raising blocks 30 are respectively and correspondingly inserted into the insertion holes 12 located within the receiving space A, so that the packaged item B placed in the receiving space A are elevated by one or more raising portions 34; in this way, a height difference of the bottom of the packaged item B could be removed, so that the packaged item B could be levelly packaged in the receiving space A.

[0037] The number of the insertion portions 24 of each of the enclosing blocks 20 could be adjusted depending on the stability requirement of the enclosing blocks 20 being engaged with the base 10; for example, one, two, or more insertion portions 24 of each of the enclosing blocks 20 could extend downwards from different positions of the bottom side of the enclosing portion 22. In order to increase a volume of the enclosing portions 22 adapted to enclose to form the receiving space A, the enclosing portion 22 of each of the enclosing blocks 20 could be provided to at least cover two of the insertion holes 12. At that time, an area occupied by the enclosing portion 22 is equal to a sum of an area of the two insertion holes 12 covered by the enclosing portion 22 and an area of a region between the at least two insertion holes 12. Preferably, when the packaged item B is packaged in the receiving space A, heights of the enclosing portions 22 around the receiving space A are constant, so that a plurality of packaging material with the adjusting blocks 100 could be stacked from top down to box a plurality of packaged items B in a balanced and stable manner without tilting or leaning.

[0038] Referring to FIG. 2 and FIG. 3, in the first embodiment of the present invention, seven enclosing blocks 20 are engaged on the base 10 and enclose to form two receiving spaces A. The seven enclosing blocks 20 are classified as four different shapes as described as below.

[0039] As shown in FIG. 2 and FIG. 5A to FIG. 5D, the enclosing portion 22 of the enclosing block 20 in a first shape is a rectangular shape and has an insertion portion 24 extending downwards from a middle of the bottom side of the enclosing portion 22. More specifically, when the enclosing block 20 is fixed by correspondingly inserting the insertion portion 24 of the enclosing block 20 into one of the insertion holes 12, the enclosing portion 22 covers the corresponding insertion hole 12 inserted by the insertion portion 24 of the enclosing block 20 and two of the insertion holes 12 located on two opposite sides of the corresponding insertion hole 12 from above, so that an area occupied by the enclosing

portion 22 is equal to a sum of an area of the aforementioned three insertion holes 12 and an area of a region among the three insertion holes 12 on the base 10. An inner portion of the enclosing block 20 is hollow, so that the enclosing portion 22 and the insertion portion 24 of the enclosing block 20 are connected to each other to form a housing. A protruding rib 242 is formed by protruding outward from a periphery of the insertion portion 24 of the enclosing block 20. When the insertion portion 24 of the enclosing block 20 is inserted into the insertion hole 12 of the base 10, the protruding rib 242 abuts against a peripheral wall of the insertion hole 12, so that the enclosing block 20 could be fixed more firmly, thereby preventing the enclosing block 20 from falling off due to pushing or squeezing.

[0040] A periphery of the enclosing portion 22 has a side sheet 221, which is in an inclined shape with a wide top and a narrow bottom. The periphery of the insertion portion 24 of the enclosing block 20 has a side sheet 241, which is an inclined shape with a wide top and a narrow bottom. An angle $\theta 1$ is formed between an inner peripheral surface of the side sheet 221 of the enclosing portion 22 of the enclosing block 20 and a vertical surface. Another angle $\theta 2$ is formed between an inner peripheral surface of the side sheet 241 of the insertion portion 24 of the enclosing block 20 and the vertical surface. In the current embodiment, both of the angle $\theta 1$ and the another angle $\theta 2$ are three degrees. In other embodiments, the angle $\theta 1$ and the another angle $\theta 2$ could be from 0 degree to 5 degrees. A slot 26 is formed on a top edge of the side sheet 221 of the enclosing portion 22 to match with the inclined shape of the side sheet 221 of the enclosing portion 22 and the inclined shape of the side sheet 241 of the insertion portion 24 of the enclosing block 20. With the slot 26, another enclosing block 20 in the shape as the aforementioned enclosing block 20 could be inserted into the enclosing block 20 via the slot 26, so that two or more enclosing blocks 20 in the same shape could be stacked from top down to increase an overall height of the stacked enclosing blocks 20.

[0041] As shown in FIG. 2 and FIG. 6, the enclosing portion 22 of the enclosing

block 20 in a second shape is a rectangular shape and has an insertion portion 24 extending downwards from one of two halves of the bottom side of the enclosing portion 22. More specifically, when the enclosing block 20 is fixed by correspondingly inserting the insertion portion 24 of the enclosing block 20 into one of the insertion holes 12, the enclosing portion 22 covers the corresponding insertion hole 12 inserted by the insertion portion 24 of the enclosing block 20 and one of the insertion holes 12 located on a side of the corresponding insertion hole 12 from above. An inner portion of the enclosing block 20 is hollow, so that the enclosing portion 22 and the insertion portion 24 of the enclosing block 20 are connected to each other to form a housing. A protruding rib 242 is formed by protruding outward from a periphery of the insertion portion 24 of the enclosing block 20. A periphery of the enclosing portion 22 has a side sheet 221. The periphery of the insertion portion 24 of the enclosing block 20 has a side sheet 241. A slot 26 is formed on a top edge of the side sheet 221 of the enclosing portion 22. Both of the side sheet 221 of the enclosing portion 22 and the side sheet 241 of the insertion portion 24 of the enclosing block 20 are in an inclined shape with a wide top and a narrow bottom, wherein an inclining state of the side sheet 221 of the enclosing portion 22 and an inclining state of the side sheet 241 of the insertion portion 24 of the enclosing block 20 are the same as that of the enclosing block 20 in the first shape, so that two or more enclosing blocks 20 in the second shape could be stacked from top down to increase an overall height of the stacked enclosing blocks 20.

[0042] As shown in FIG. 2 and FIG. 7, the enclosing portion 22 of the enclosing block 20 in a third shape is also a rectangular shape, except that the enclosing portion 22 of the enclosing block in the third shape has an extension length greater than an extension length of the enclosing portion 22 of the enclosing block 20 in the first shape and an extension length of the enclosing portion 22 of the enclosing block 20 in the second shape and has two insertion portions 24 respectively extending downwards from two opposite ends on the bottom side of the enclosing portion 22. More specifically, when the enclosing block

20 is fixed by correspondingly inserting the two insertion portions 24 of the enclosing block 20 into two of the insertion holes 12, the enclosing portion 22 covers the two corresponding insertion holes 12 inserted by the insertion portions 24 of the enclosing block 20 and another two of the insertion holes 12 located between the two corresponding insertion holes 12 from above. An inner portion of the enclosing block 20 is hollow, so that the enclosing portion 22 and the two insertion portions 24 of the enclosing block 20 are connected to each other to form a housing. A protruding rib 242 is formed by protruding outward from a periphery of each of the insertion portions 24 of the enclosing block 20. A periphery of the enclosing portion 22 has a side sheet 221. A periphery of each of the insertion portions 24 of the enclosing block 20 has a side sheet 241. A slot 26 is formed on a top edge of the side sheet 221 of the enclosing portion 22. Both of the side sheet 221 of the enclosing portion 22 and the side sheet 241 of the insertion portions 24 of the enclosing block 20 are in an inclined shape with a wide top and a narrow bottom, wherein an inclining state of the side sheet 221 of the enclosing portion 22 and an inclining state of the side sheet 241 of each of the insertion portions 24 of the enclosing block 20 are the same as that of the enclosing block 20 in the first shape, so that two or more enclosing blocks 20 in the third shape could be stacked from top down to increase an overall height of the stacked enclosing blocks 20.

[0043] As shown in FIG. 2 and FIG. 8, the enclosing portion 22 of the enclosing block 20 in a fourth shape is in a L-shape and has an insertion portion 24 extending downwards from a turning point on the bottom side of the enclosing portion 22. More specifically, when the enclosing block 20 is fixed by correspondingly inserting the insertion portion 24 of the enclosing block into one of the insertion holes 12, the enclosing portion 22 covers the corresponding insertion hole 12 inserted by the insertion portion 24 of the enclosing block 20 and two of the insertion holes 12 located on two sides of the corresponding insertion hole 12 from above. An inner portion of the enclosing block 20 is hollow, so that the enclosing portion 22 and the insertion portion 24 of the enclosing block

20 are connected to each other to form a housing. A protruding rib 242 is formed by protruding outward from a periphery of the insertion portion 24 of the enclosing block 20. A periphery of the enclosing portion 22 has a side sheet 221. A periphery of the insertion portion 24 of the enclosing block 20 has a side sheet 241. A slot 26 is formed on a top edge of the side sheets 221 of the enclosing portion 22. Both of the side sheet 221 of the enclosing portion 22 and the side sheet 241 of the insertion portion 24 of the enclosing block 20 are in an inclined shape with a wide top and a narrow bottom, wherein an inclining state of the side sheet 221 of the enclosing portion 22 and an inclining state of the side sheet 241 of the insertion portion 24 of the enclosing block 20 are the same as that of the enclosing block 20 in the first shape, so that two or more enclosing blocks 20 in the fourth shape could be stacked from top down to increase an overall height of the stacked enclosing blocks 20.

[0044] As shown in FIG. 9A to FIG. 9C, an inner portion of the raising block 30 has is hollow and a top end of the raising block 30 has an opening 36, so that the insertion portion 32 and the raising portion 34 of the raising block 30 are connected to each other to form a housing. The raising portion 34 is a rectangular ring and is connected to a periphery of a top end of the insertion portion 32 of the raising block 30. In the current embodiment, the raising block 30 is formed by recyclable paper material. In other embodiments, the raising block 30 could be formed by plastic or composite materials.

[0045] As shown in FIG. 1 to FIG. 4, as the enclosing blocks 20 in the first shape to the fourth shape have the hollow inner portion, a hollow buffer space is formed in the inner portion of the enclosing blocks 20, so that the side sheet 221 of the enclosing portion 22 of the enclosing blocks 20 could buffer and reduce external impact forces during packaging and alleviate the internal pressure generated by the packaged items B due to vibration in transportation and being urged by other packaged items B, thereby ensuring that the packaged items B remain intact and undamaged. In other embodiments, each of the enclosing blocks 20 could be provided without the slot 26, and both of the angle $\theta 1$ and the

another angle θ_2 are close to 0 degree, so that the inner portion of the enclosing blocks 20 is closed and hollow, which could also alleviate the external impact forces and the internal pressure.

[0046] In the first embodiment of the present invention, the enclosing blocks 20 are formed by recyclable paper materials. In other embodiments, the enclosing blocks 20 could be formed by plastic or composite materials. By the plurality of enclosing blocks 20 being detachably engaged on different positions of the base 10, the plurality of enclosing blocks 20 are inserted into the plurality of insertion holes 12 at the different positions of the base 10 to form suitable receiving spaces A based on the packaging requirements of different packaged items B. Because these enclosing blocks 20 are reusable for packaging the packaged items B in different shapes and sizes, the packaging material with the adjusting blocks 100 are environmentally friendly in use without redesigning a shape of the packaging material for packaging different products, thereby effectively reducing the additional packaging material inventory.

[0047] As shown in FIG. 1 to FIG. 4, in the first embodiment of the present invention, the base 10 includes two plates 14 stacked vertically, wherein an area of the top one of the plates 14 is smaller than an area of the bottom one of the plates 14, and each of the plates 14 is a corrugated board. Each of the plates 14 has a plurality of through holes 142 arranged in a matrix arrangement, wherein the plurality of through holes 142 of the two plates 14 are vertically aligned to form the plurality of insertion holes 12. When the insertion portions 24 of the enclosing blocks 20 respectively penetrate through one of the insertion holes 12, the insertion portion 24 of the enclosing block 20 penetrates through the two through holes 142 included by the corresponding insertion hole 12, so that the two plates 14 simultaneously penetrated by the insertion portions 24 of the enclosing blocks 20 could be fixed without being easily detached. In addition to the first embodiment, in which the base 10 includes the two plates 14 stacked vertically, the base 10 could be a single layer structure,

such as a single-layer corrugated board.

[0048] In addition to the first embodiment of the present invention, in which the two plates 14 stacked vertically respectively have different areas, the two plates 14 stacked vertically could be in the same shape. Referring to FIG. 10A and FIG. 10B, in another embodiment, the base 10 includes two plates 14 stacked vertically and being in the same shape, wherein the bottom one of the two plates 14 is disposed upside down compared to the top one of the two plates 14; apart from that the two plates 14 of the base 10 could be fixed by the insertion portions 24 of the enclosing blocks 20 being inserted into the insertion holes 12, a plurality of folding sheets 16 are formed on a periphery of one of the two plates 14 that are stacked vertically, wherein an inner edge of each of the folding sheets 16 is a connection side 161 and two cutting lines 162 are respectively formed on a left side and a right side of each of the folding sheets 16; a plurality of grooves 18 is formed at positions on a periphery of the other plate 14 corresponding to the folding sheets 16, wherein each of the grooves 18 is a trapezoidal notch with a wide outside and a narrow inside; each of the folding sheets 16 is bent to fit into one of the grooves 18, so that the peripheries of the two plates 14 stacked vertically could be fixed without being easily detached, which could also achieve the effect of fixing the plates 14 of the base 10.

[0049] A packaging material with adjusting blocks 100 according to a second embodiment of the present invention is illustrated in FIG. 11 to FIG. 12 and has almost the same structure as that of the packaging material with the adjusting blocks 100 in the first embodiment, except that the base 10 in the second embodiment includes four plates 14 stacked vertically, wherein an area of the topmost one of the plates 14 is smaller than an area of the middle two of the plates 14 and an area of the bottommost one of the plates 14, so that the base 10 is divided into a four-layer portion and a three-layer portion. Similarly, each of the plates 14 has a plurality of through holes 142 arranged in a matrix arrangement. The through holes 142 of the four plates 14 of the four-layer portion of the base 10 are

aligned vertically to form the plurality of insertion holes 12. The through holes 142 of the middle two and the bottommost one of the plates 14 of the three-layer portion of the base 10 are aligned vertically to form the plurality of insertion holes 12.

[0050] A plurality of enclosing blocks 20 are detachably engaged with the four-layer portion of the base 10 to enclose three receiving spaces A, wherein each of the receiving spaces A of the four-layer portion of the base 10 packages a packaged item B. Another group of a plurality of enclosing blocks 20 are detachably engaged with the three-layer portion of the base 10 to enclose one receiving space A, wherein one packaged item B is packaged in the receiving space A of the three-layer portion of the base 10. Referring to FIG. 11, FIG. 13, and FIG. 14, in the current embodiment, a part of the plurality of enclosing blocks 20 engaged with the four-layer portion of the base 10 has a slot 26 adapted to be inserted by another enclosing block 20 with the same shape for stacking vertically, so that when the packaging material with the adjusting blocks 100 is boxed, another packaging material with adjusting blocks 100 could be stacked above the stacked enclosing blocks 20 of the packaging material with the adjusting blocks 100 and therefore the two packaging material with adjusting blocks 100 are vertically stacked to be placed in a same packaging box C.

[0051] It must be pointed out that the embodiments described above are only some preferred embodiments of the present invention. All equivalent structures which employ the concepts disclosed in this specification and the appended claims should fall within the scope of the present invention.

WHAT IS CLAIMED IS:

1. A packaging material with adjusting blocks, comprising:
 - a base having a plurality of insertion holes arranged in a matrix arrangement; and
 - a plurality of enclosing blocks respectively having an enclosing portion and at least one insertion portion extending downwards from a bottom side of the enclosing portion, wherein the at least one insertion portion of each of the plurality of enclosing blocks is selectively inserted into one of the plurality of insertion holes for fixing, so that the enclosing portions of the plurality of enclosing blocks enclose to form at least one receiving space on the base;
 - wherein an inner portion of each of the plurality of enclosing blocks is hollow; the enclosing portion and the at least one insertion portion of each of the plurality of enclosing blocks are connected to each other to form a housing;
 - wherein a protruding rib is formed by protruding outward from a periphery of the at least one insertion portion of each of the plurality of enclosing blocks; the protruding rib of the at least one insertion portion of each of the plurality of enclosing blocks abuts against a peripheral wall of one of the plurality of insertion holes for fixing.
2. The packaging material with the adjusting blocks as claimed in claim 1, wherein a periphery of the enclosing portion of each of the plurality of enclosing blocks has a side sheet; the periphery of the at least one insertion portion of each of the plurality of enclosing blocks has a side sheet; the side sheet of the enclosing portion is in an inclined shape with a wide top and a narrow bottom; a slot is formed on a top edge of the side sheet of the enclosing portion; the side sheet of the at least one insertion portion of each of the plurality of enclosing blocks is in an inclined shape with a wide top and a narrow bottom.
3. The packaging material with the adjusting blocks as claimed in claim 2, wherein another enclosing block is inserted into the slot of one of the plurality of enclosing blocks;

a shape of the another enclosing block is the same as a shape of the enclosing block being inserted.

4. The packaging material with the adjusting blocks as claimed in claim 1 to claim 3, wherein the enclosing portion of each of the plurality of enclosing blocks at least covers two of the plurality of insertion holes from above; a cross section of the enclosing portion of each of the plurality of enclosing blocks in a horizontal direction is in a rectangular shape or a L-shape.

5. The packaging material with the adjusting blocks as claimed in claim 1 to claim 3, wherein at least one raising block is inserted into at least one of the plurality of insertion holes located in the at least one receiving space; the at least one raising block has an insertion portion and a raising portion formed on a top end of the insertion portion of the at least one raising block; the insertion portion of the at least one raising block is inserted into one of the plurality of insertion holes for fixing; a height of the raising portion is between a top surface of the base and a height of the plurality of enclosing blocks inserted into the base for fixing.

6. The packaging material with the adjusting blocks as claimed in claim 1 to claim 3, wherein the base comprises at least two plates that are stacked; each of the at least two plates has a plurality of through holes arranged in a matrix arrangement; the plurality of through holes of one of the at least two plates are vertically aligned with the plurality of through holes of the other of the at least two plates to form the plurality of insertion holes.

7. The packaging material with the adjusting blocks as claimed in claim 6, wherein the at least two plates comprise two plates; a plurality of folding sheets is formed a periphery of one of the two plates, which are vertically stacked; a plurality of grooves is formed on a periphery of the other one of the two plates corresponding to the plurality of folding sheets; each of the plurality of folding sheets is bent to fit into one of the plurality of grooves to fix the peripheries of the two plates, which are stacked vertically.

8. The packaging material with the adjusting blocks as claimed in claim 7, wherein each of the plurality of folding sheets is a trapezoidal sheet with a wide outside and a narrow inside, an inner edge of each of the plurality of folding sheets is a connection side; two cutting lines are respectively formed on a left side and a right side of each of the plurality of folding sheets; each of the plurality of grooves is a trapezoidal notch with a wide outside and a narrow inside.