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(54) **COMBINED AND UPRIGHT FILE STORAGE CABINET**

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(57) **ABSTRACT**

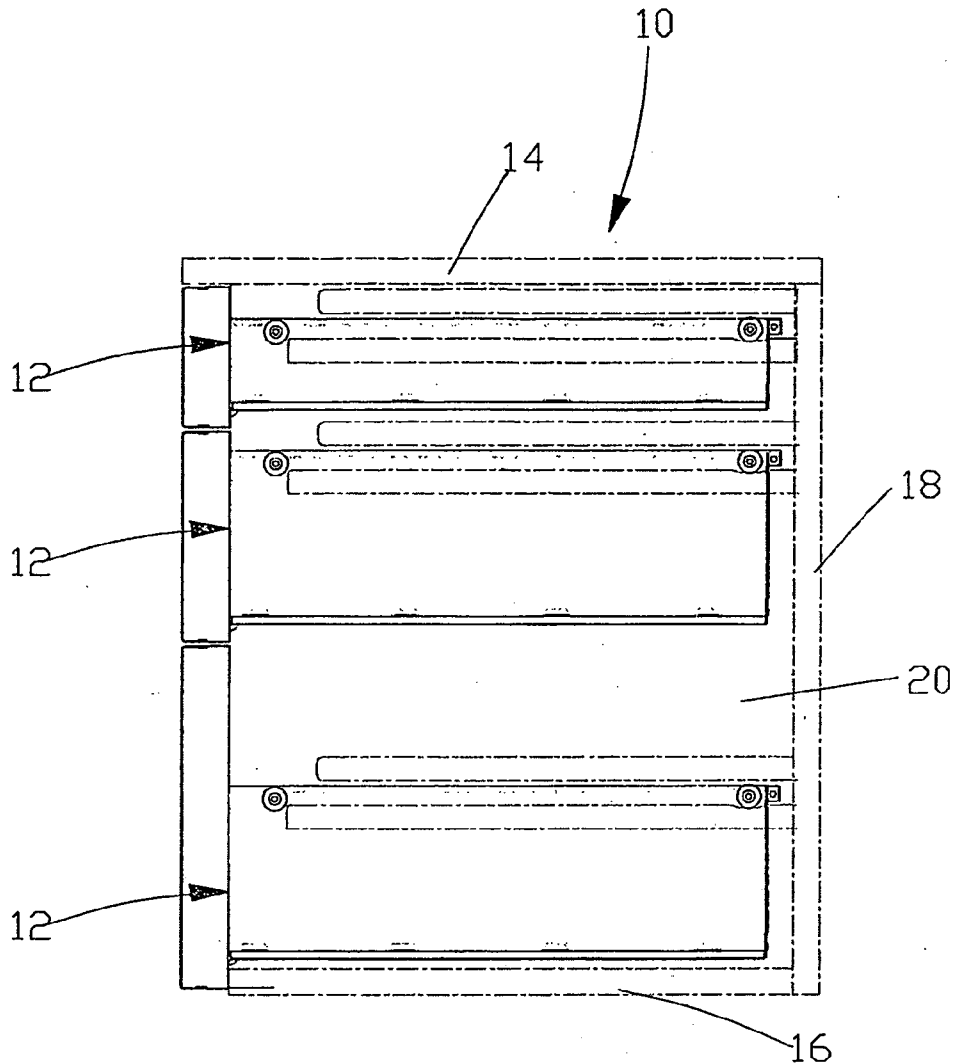
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A folding chair, including a first folding support and a second folding support, the first folding support includes a first front leg, a first back leg and a seat, the upper-end of the first front leg is pivotally connected to the lateral front-end of the seat, the first front leg is pivotally cross-linked with the first back leg, the lateral side of the seat is slidably and pivotally connected to the first back leg; the second folding support includes a second front leg, a second back leg and a second horizontal bearing-rod, connection of the second folding support is similar to that of the first folding support.

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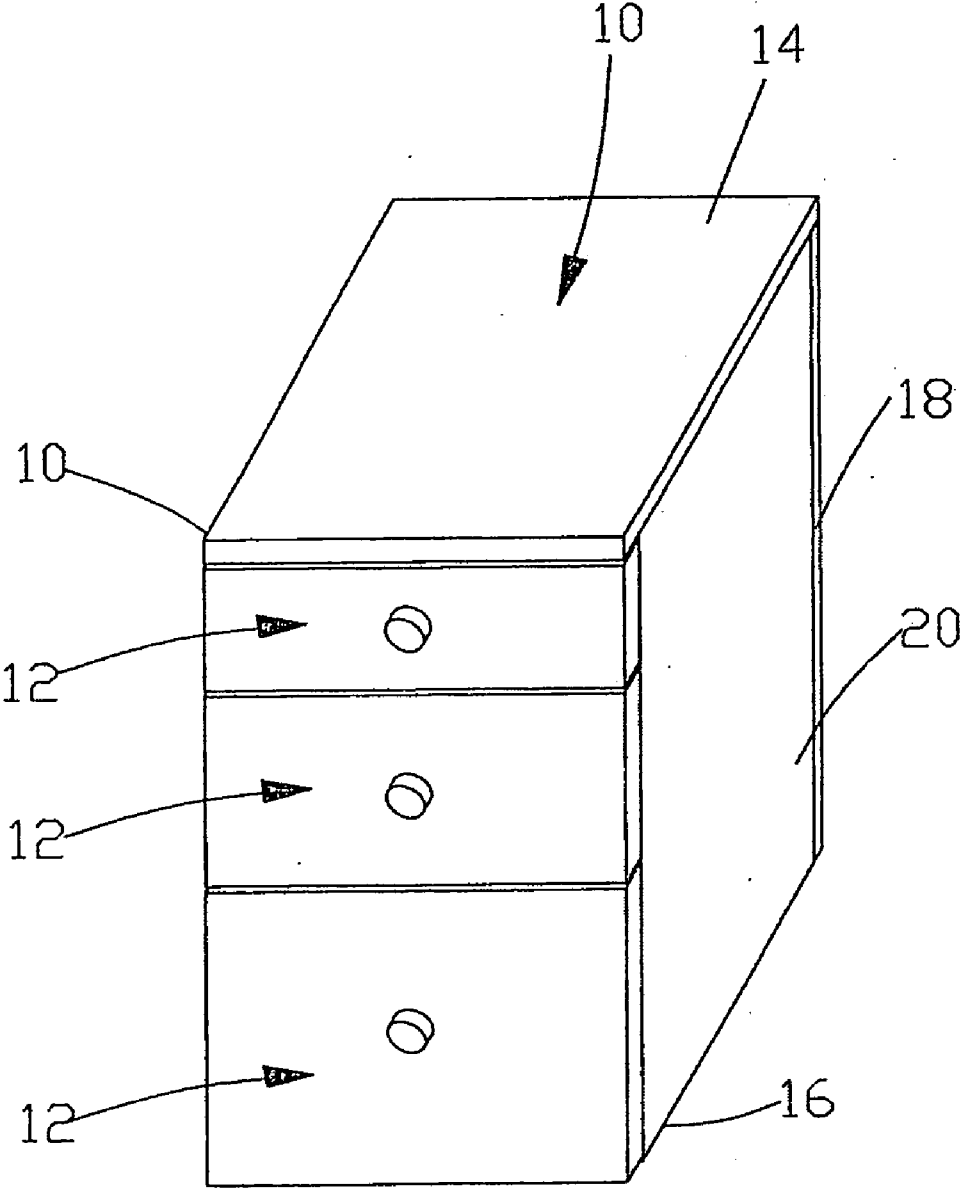


FIG. 1

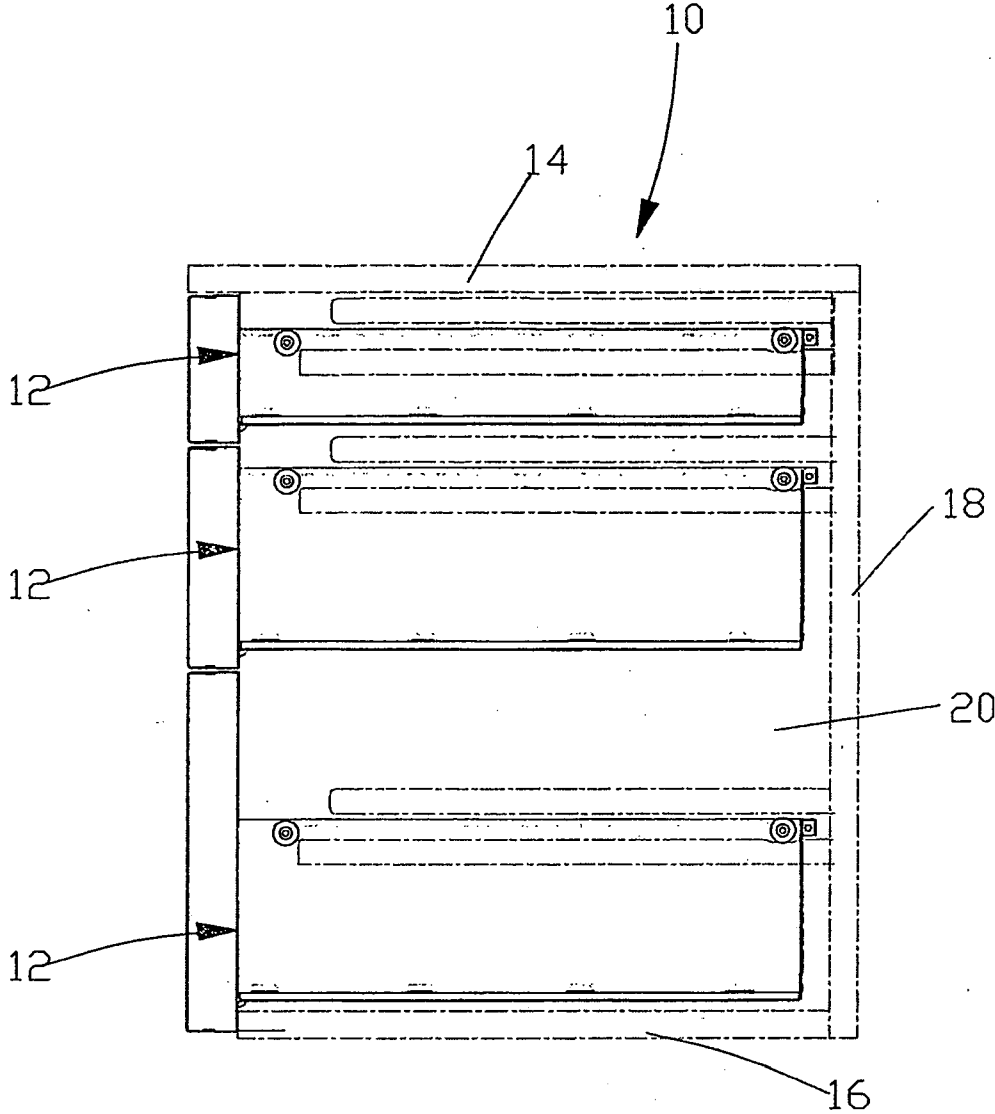


FIG. 2

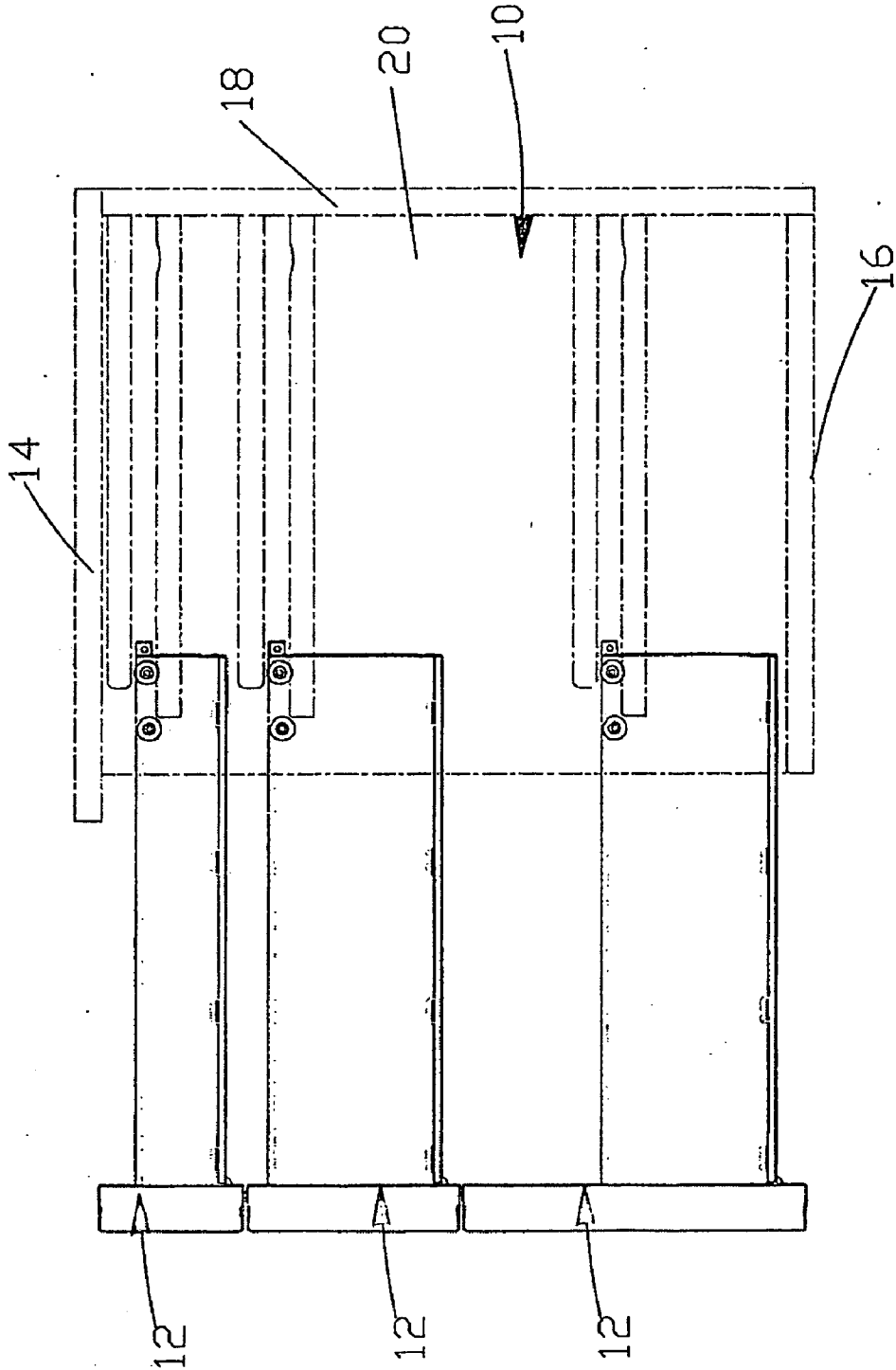


FIG. 3

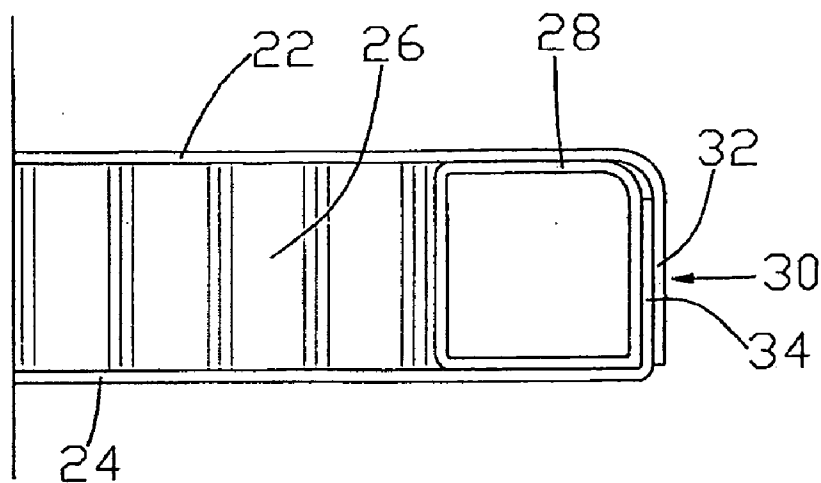


FIG. 4

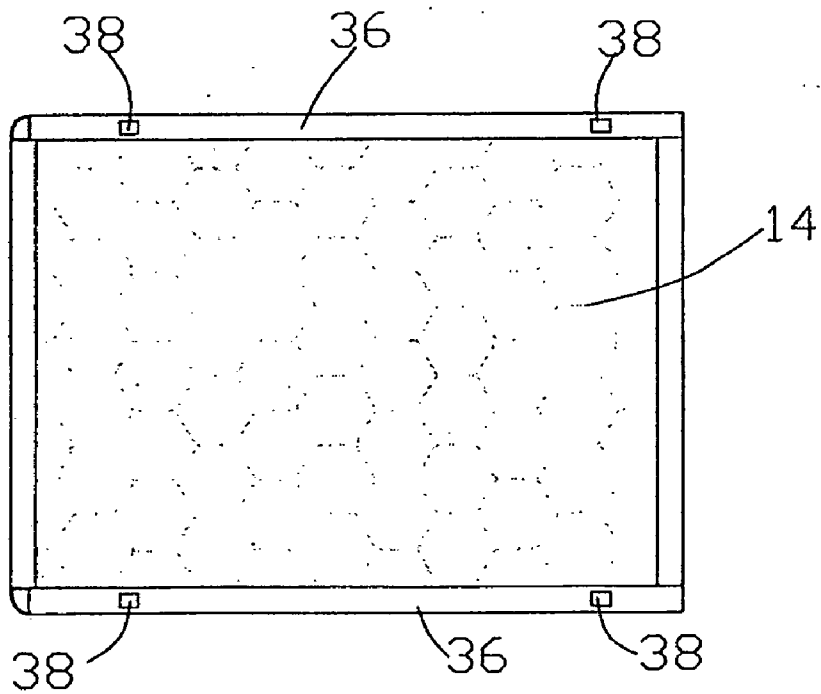


FIG. 5

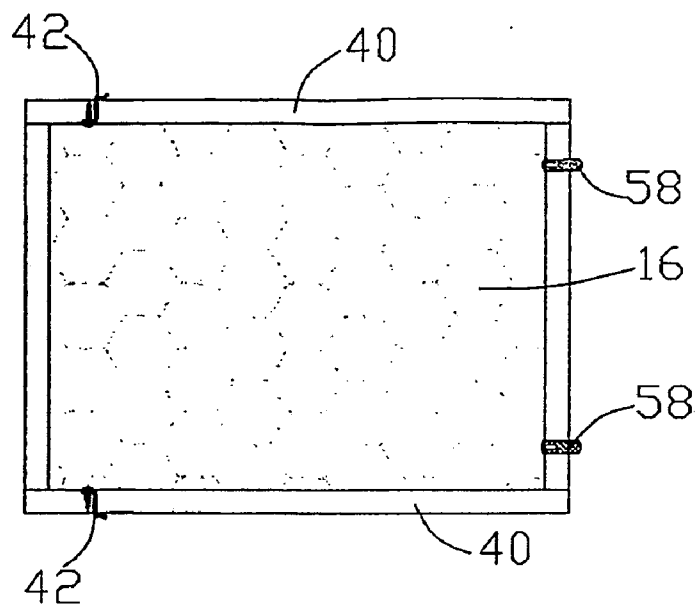


FIG. 6

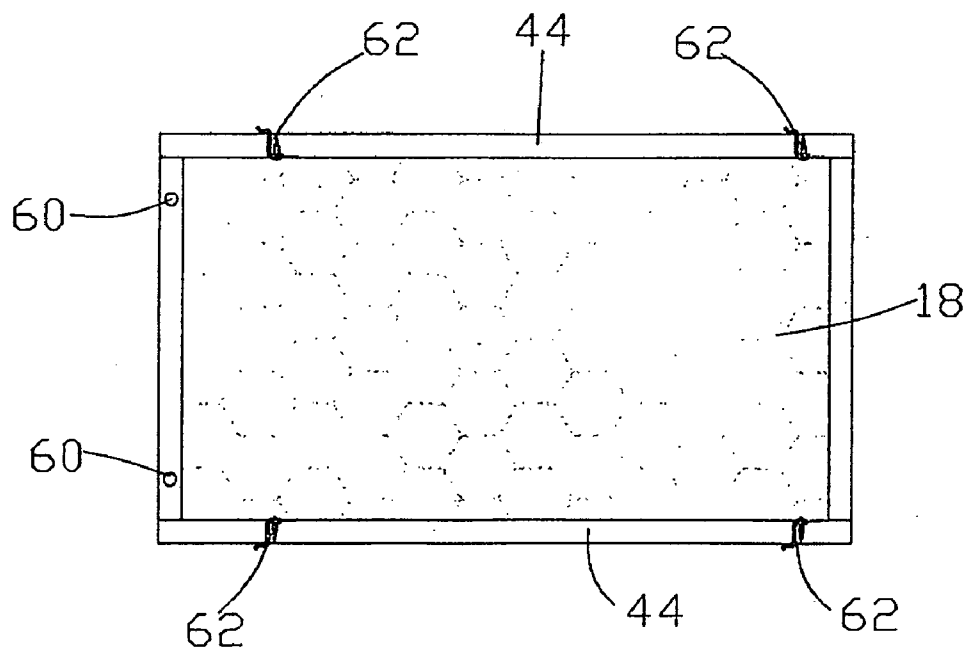


FIG. 7

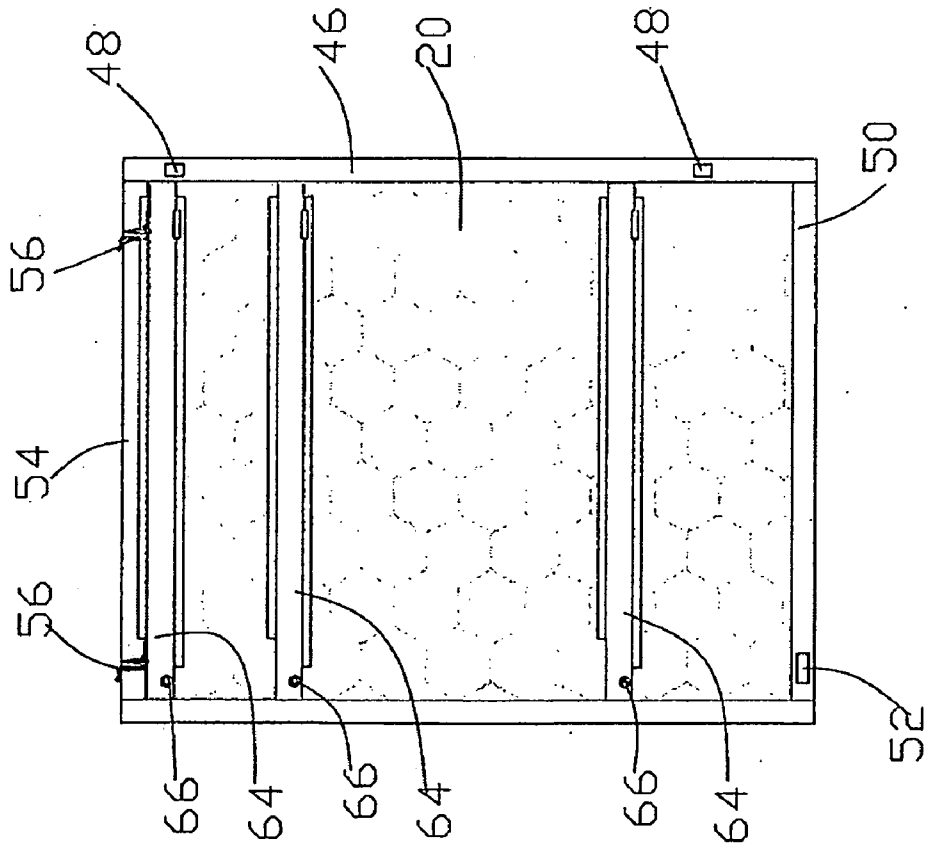


FIG. 8

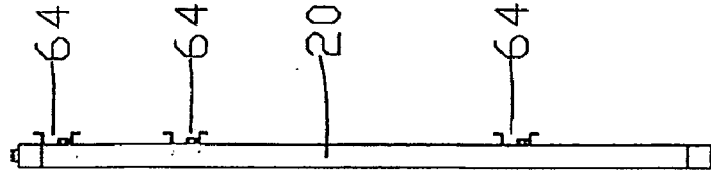


FIG. 9

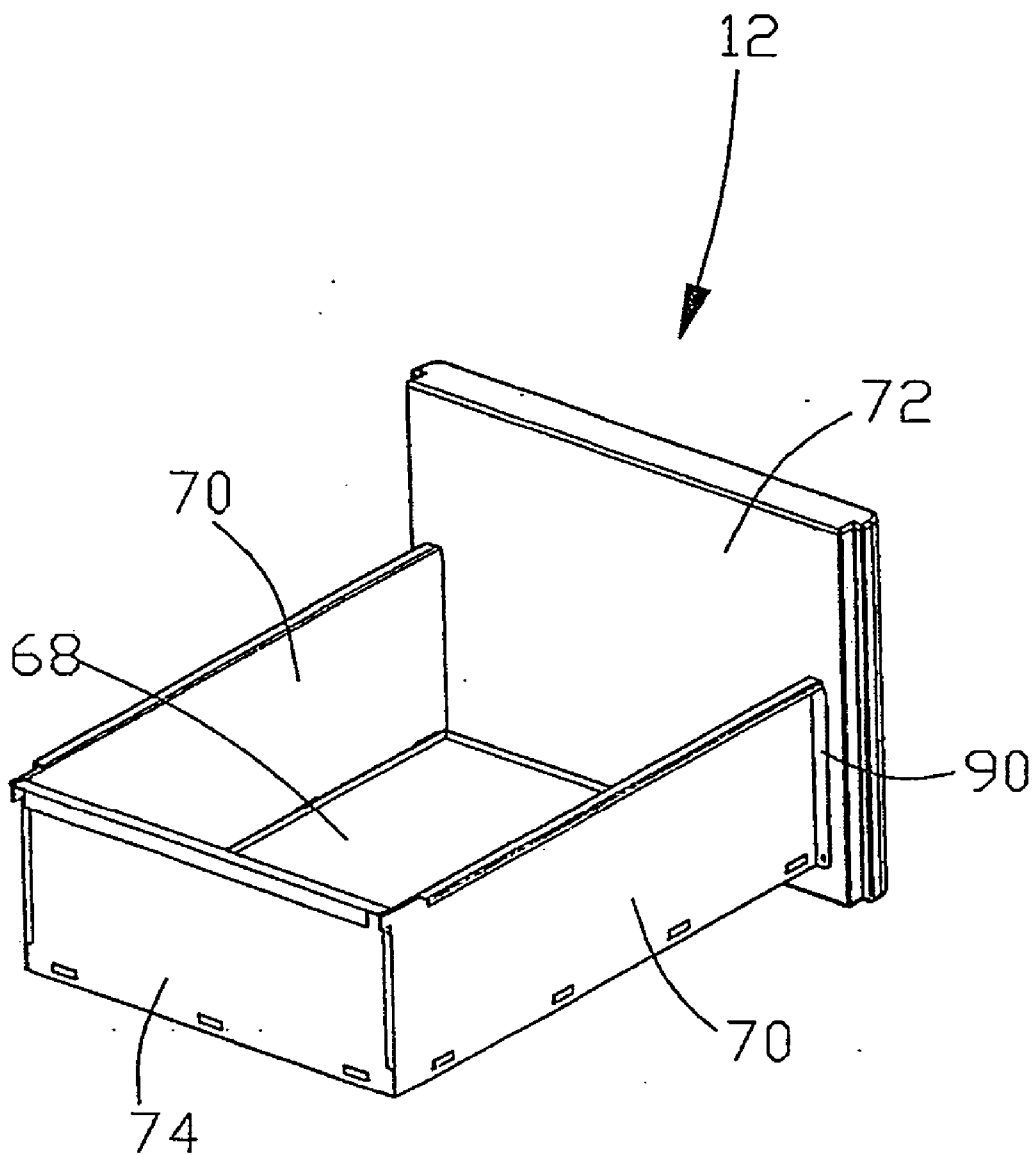


FIG. 10

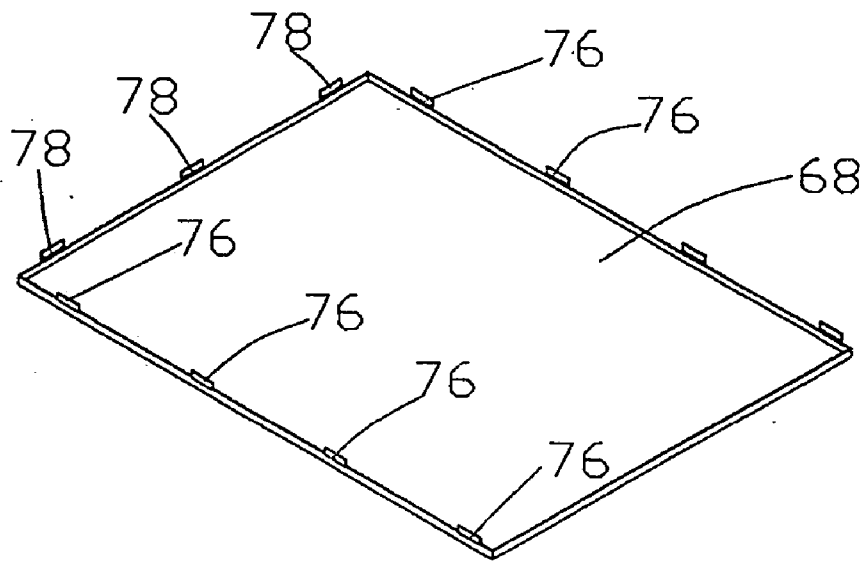


FIG. 11

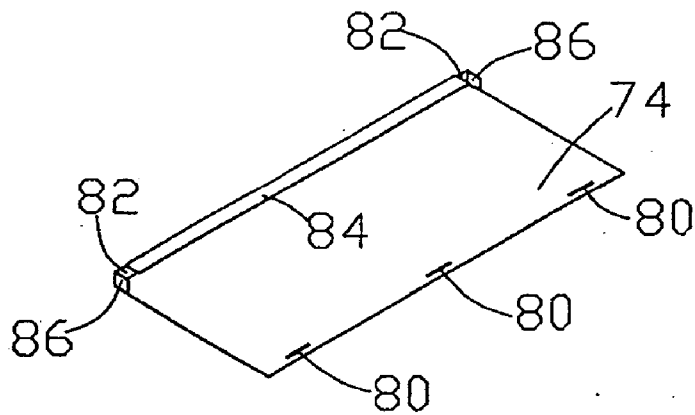


FIG. 12

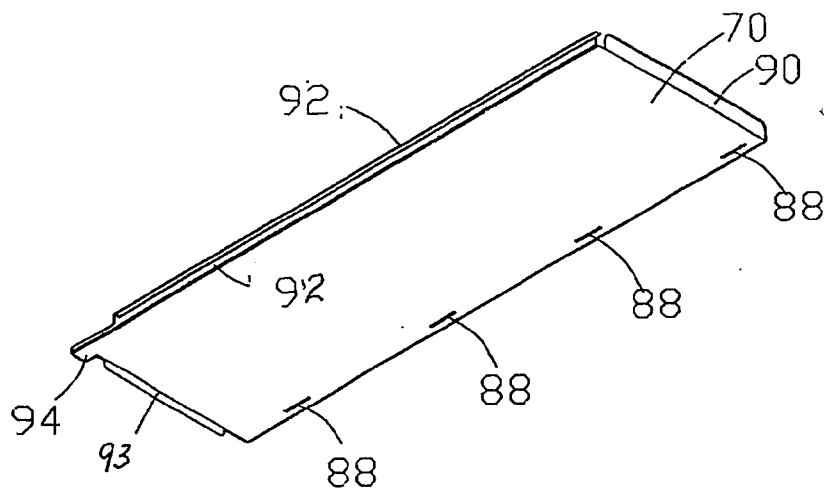


FIG. 13

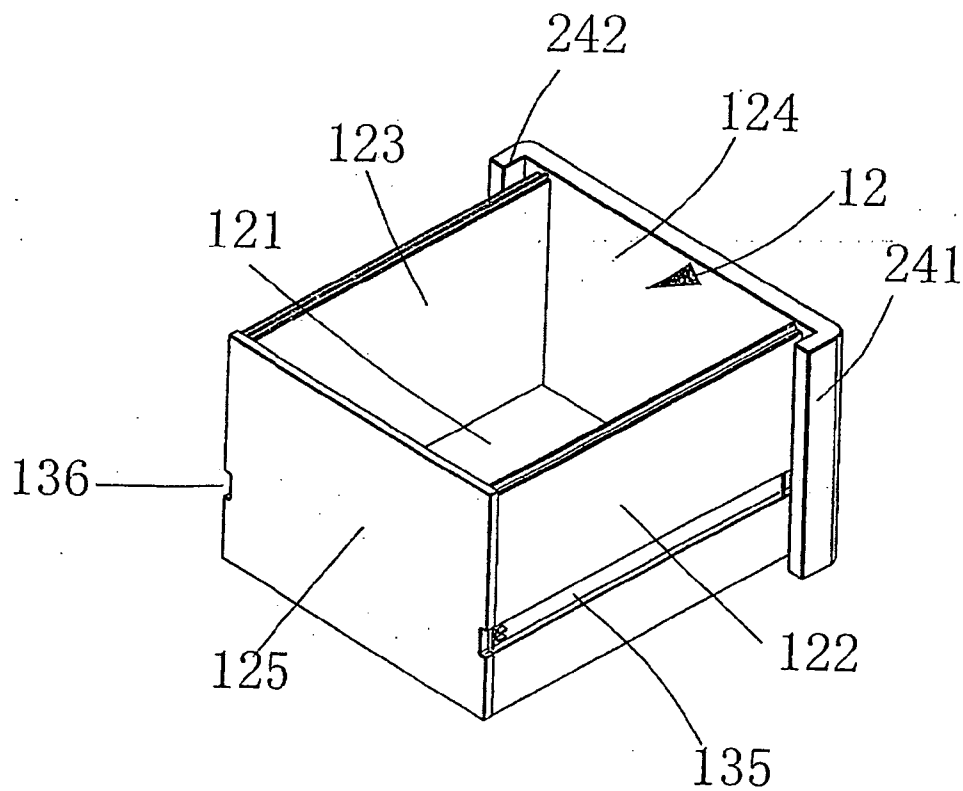


FIG. 14

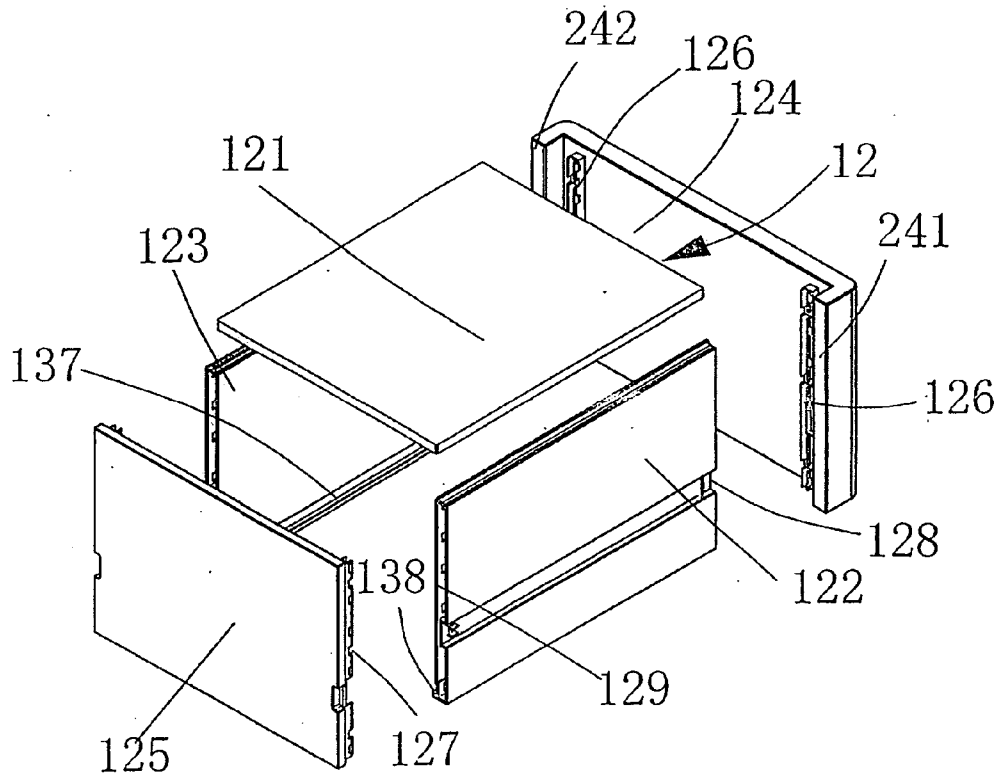


FIG. 15

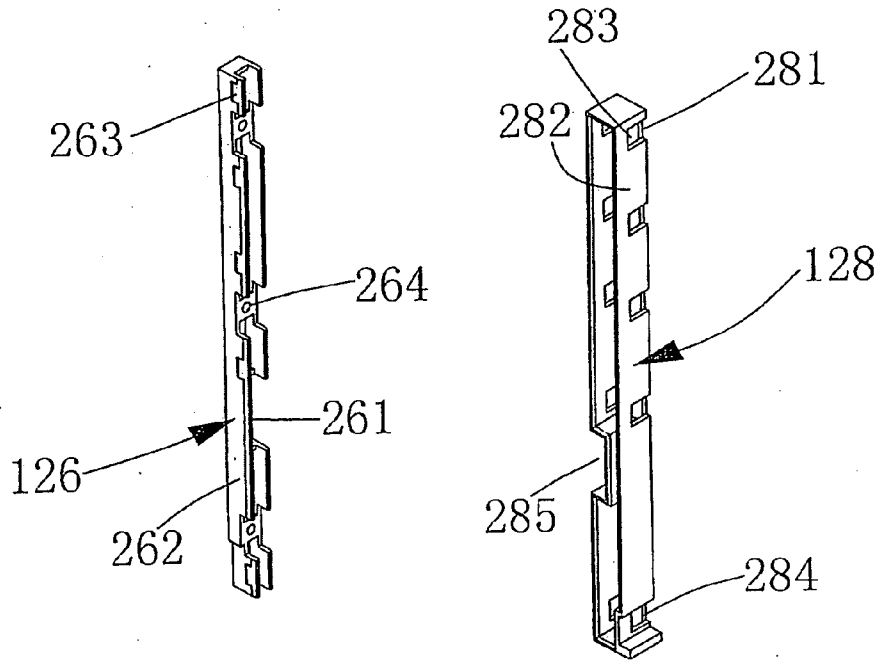


FIG. 16

FIG. 17

COMBINED AND UPRIGHT FILE STORAGE CABINET

TECHNICAL FIELD

[0001] The present invention relates to a file cabinet, particularly to a combined and upright file cabinet constituted of some plastic composite boards.

BACKGROUND OF THE TECHNOLOGY

[0002] File cabinet is widely used at offices, bedchambers and so on because of its practicability. Existing file cabinets are mostly made by wood, which wastes much wood and destroys environment. So wood file cabinets are gradually replaced by plastic file cabinets. Existing plastic file cabinets have disadvantages as follows: firstly, plastic boards can not support great weight; secondly, adopting solid plastic boards will waste materials and have great weight; thirdly, file cabinets are no knock-down connection, which have great cubage, low connection intensity and bad sight.

CONTENT OF THE INVENTION

[0003] The purpose of the present invention is to solve the disadvantages of existing technology and to provide a combined and upright file cabinet of high connection intensity and disassembly and convenient connection.

[0004] The present invention adopts technical scheme as follows: A combined and upright file cabinet, comprising a file cabinet body constituted of an apical plate and a lateral plate and a backboard, some drawers which moveably link with the file cabinet body. Said file cabinet body and drawers are plastic composite boards; said plastic composite board consists of a faceplate, a soleplate, a perforated plate and a liner; the perforated plate is filled between the faceplate and the soleplate, the liner is sandwiched between the faceplate and the soleplate, and the liner entirely or interval partly covers the perforated plate along the periphery of the perforated plate.

[0005] The mutual connections of the plastic composite boards of the file cabinet body are knock-down hanging connection; said every two plastic composite boards of hanging connection: a first plastic composite board at least having a pair of sides inside embedded with liner as reinforcement pieces, a second plastic composite board at least having a pair of sides inside embedded with liner as reinforcement pieces, and the side reinforcement piece of the connection of the first plastic composite board and the second plastic composite board has buckle hole outside of the first plastic composite board, accordingly the reinforcement piece of the second plastic composite board has fastener protruding outside of the second plastic composite board; the first plastic composite board fixedly connects with the second plastic composite board by buckling the fastener into the buckle hole.

[0006] Said four sides of the lateral plate of the file cabinet body are all embedded with liners as reinforcement pieces to form reinforcement frame, which has several reinforcement poles in landscape orientation; runners are installed on the transverse reinforcement poles.

[0007] The file cabinet of the present invention is constituted of some hanging-connection plastic composite boards; the connection of every plastic composite board is knock-down, it ties up little room when in storage or transit. Reinforcement pieces are embedded into the plastic composite boards, which have beautiful appearance and are easy-machined and will not scrape users or their clothes. The reinforcement pieces have fasteners or buckle holes, which has high connection intensity. The first plastic composite board

connect with the second plastic composite board by the fasteners and the buckle holes, which has high connection intensity.

[0008] Both the faceplate and the soleplate of said plastic composite board are plastic combined boards of inhale molding, the superposition sides of the faceplate and the soleplate locate on the side of the plastic composite board, the superposition side of the faceplate and the soleplate connect with each other by jointing or gluewater; plastic composite board is filled with paper honeycomb core or plastic honeycomb core or epislastic stuffing; or both the faceplate and the soleplate of the plastic composite board are plastic pieces, the circumferences of the faceplate and the soleplate are enrwraped by enveloping regulas, plastic composite board is filled with paper honeycomb core or plastic honeycomb core or epislastic stuffing; or both the faceplate and the soleplate of the plastic composite board are single layer or multi-layer plastic boards made by inhale molding, the thickness of the plastic board is 0.3 to 4 mm. The plastic composite board of the invention has beautiful appearance and high intensity and low weight and low machining cost.

[0009] The surfaces of the faceplate and the soleplate of said plastic composite board are printed with printing layer of grain of wood or marbling or complexed with film layer of grain of wood or marbling. Which is beautiful and easy-producing.

[0010] The reinforcement pieces embedded into the plastic composite board are pipe fittings, extrusion shaped materials, injection molding pieces or hardware complex pieces. Which is easy-machining, low cost, high intensity and easy-connection.

[0011] The fasteners of the second plastic composite board fixedly connects with the reinforcement piece embedded into the second plastic composite board by jointing or rivet or screw thread. Which is easy-machining and high intensity.

[0012] Said fasteners are plastic hooks, L-shaped metal pieces, L-shaped sheet pieces or ladder-shaped pins; said buckle holes are rectangle holes or oblong holes or ladder holes; fasteners correspond with buckle holes. Which is easy-machining and has high connection intensity.

[0013] The fixed connection of the first plastic composite board and the second plastic composite board is "L" shape or "T" shape or "—" shape. Which has high intensity.

[0014] Said drawer is made up of five plates: a bottom side plate, a left side plate, a right side plate, a front side plate and a back side plate; said every two side plates of hanging connection: the first side plate has fastener and the second side plate has buckle hole to accept the fastener; the drawer is made up of a bottom side plate, a left side plate, a right side plate, a front side plate and a back side plate by fasteners hanging into buckle holes. which is easy-machining, has low cost and high connection intensity.

[0015] said drawer is made up of five plates: bottom drawer plate, left drawer plate, right drawer plate, front drawer plate, back drawer plate; two front insert-meet pieces are installed at two sides of the inner side of the front drawer plate, two back insert-meet pieces are installed at two sides of the inner side of the back drawer plate; correspondingly insert-meeted pieces are installed at front end side of the left and the right drawer plates; the left drawer plate and the right drawer plate fixedly connect with the front drawer plate and the back drawer plate by insert-meet pieces inserting into insert-meeted pieces; the downside of the inner side of the left drawer plate and the right drawer plate has fixed troughs, outside has runners; the bottom fixedly connect with the left drawer plate and the right drawer plate by inserting into the

fixed troughs. The drawer of the present invention is plastic composite board, which has high intensity and low weight.

[0016] The present invention has virtues as follows: firstly, the combined and upright file cabinet has high intensity and low weight and low cost; secondly, the connection of every plastic composite board has high intensity and is easy connection; thirdly, plastic composite boards of the combined and upright file cabinet have high intensity; fourthly, the connection of every plastic composite board is knock-down, it ties up little room when in storage or transit; fifthly, liners can be reinforcement pieces.

THE BRIEF INTRODUCTION OF THE ATTACHED DRAWINGS

[0017] FIG. 1 is the sketch map of three-dimensional structure of embodiment 1;

[0018] FIG. 2 is the front perspective view of the embodiment 1 when drawers and the file cabinet body are closed;

[0019] FIG. 3 is the front perspective view of the embodiment 1 when drawers and the file cabinet body are open;

[0020] FIG. 4 is the sketch map of part section plane of plastic composite board in embodiment 1;

[0021] FIG. 5 is the structural sketch map of apical plastic composite board in embodiment 1;

[0022] FIG. 6 is the structural sketch map of bottom plastic composite board in embodiment 1;

[0023] FIG. 7 is the structural sketch map of back plastic composite board in embodiment 1;

[0024] FIG. 8 is the structural sketch map of lateral plastic composite board in embodiment 1;

[0025] FIG. 9 is the left view of FIG. 8;

[0026] FIG. 10 is the sketch map of three dimensional structure of drawer in embodiment 1;

[0027] FIG. 11 is the sketch map of three dimensional structure of bottom side plate of the drawer in embodiment 1;

[0028] FIG. 12 is the sketch map of three dimensional structure of back side plate of the drawer in embodiment 1;

[0029] FIG. 13 is the sketch map of three dimensional structure of the left and right side plates of the drawer in embodiment 1;

[0030] FIG. 14 is the sketch map of three dimensional structure of drawer in embodiment 2;

[0031] FIG. 15 is the sketch map of explosion diagram of drawer in embodiment 2;

[0032] FIG. 16 is the sketch map of insert-meet piece of drawer in embodiment 2;

[0033] FIG. 17 is the sketch map of insert-meeted piece of drawer in embodiment 2.

EMBODIMENTS

Embodiment 1

[0034] A combined and upright file cabinet, as FIGS. 1 to 3, comprising a file cabinet body 10 and three drawers 12, the three drawers 12 moveably link with the file cabinet 10. The file cabinet body 10 comprises an apical plastic composite board 14, a matched bottom plastic composite board 16, a matched back plastic composite board 18 and two matched lateral plastic composite boards 20. The mutual connections of the five plastic composite boards 14, 16, 18 and 20 are knock-down hanging connections.

[0035] As FIG. 4, the five plastic composite boards 14 and 16 and 18 and 20 all comprise a faceplate 22, a soleplate 24, a perforated plate 26 and a liner 28. The perforated plate 26 is filled between the faceplate 22 and the soleplate 24, the liner 28 is sandwiched between the faceplate 22 and the soleplate 24, and the liner 28 entirely covers the perforated plate 26

along the periphery of the perforated plate 26. Both the faceplate 22 and soleplate 24 are plastic combined boards of inhale molding, the thickness of the combined boards varies from 0.3 to 4 mm. The edge of the faceplate 22 extends downwards to form an upper wrapped edge 32; the edge of the soleplate 24 extends downwards to form a nether wrapped edge 34; the inner side of the upper wrapped edge 32 conglutinates with the outer side of the nether wrapped edge 34; namely the superposition side 30 of the faceplate 22 and the soleplate 24 locates on the sides of the plastic composite boards 14 and 16 and 18 and 20. The outer surfaces of faceplates 22 and soleplates 24 of the plastic composite boards 14 and 16 and 18 and 20 have printing layers of grain of wood or marbling.

[0036] As FIG. 5, both sides of the apical plastic composite board 14 are inside embedded with first reinforcement pieces 36 as their liners; both first reinforcement pieces 36 have two first buckle holes 38 outside of the apical plastic composite board 14. The first reinforcement pieces 36 are pipe fittings, extrusion shaped materials, injection molding pieces or hardware complex pieces.

[0037] As FIG. 6, the four sides of the bottom plastic composite board 16 are all embedded with second reinforcement pieces 40 as their liners; both the left and the right second reinforcement pieces 40 have first fasteners 42 protruding out of the bottom plastic composite board 16. The back second reinforcement 40 of the bottom plastic composite board 16 has two locating pins 58. The second reinforcement pieces 40 are pipe fittings, extrusion shaped materials, injection molding pieces or hardware complex pieces. The first fasteners 42 are plastic hooks, L-shaped metal pieces, L-shaped sheet pieces or ladder-shaped pins. The first fasteners 42 fixedly connects with the second reinforcement pieces 40 by welding.

[0038] As FIG. 7, the four sides of the back plastic composite board 18 are all embedded with third reinforcement pieces 44 as its liners; both third reinforcement pieces 44 have two second fasteners 62 protruding out of the back plastic composite board 18. The underside of the back plastic composite board 18 has two location holes 60 to accept the two two locating pins 58. The third reinforcement pieces 44 are pipe fittings, extrusion shaped materials, injection molding pieces or hardware complex pieces. The second fasteners 62 are plastic hooks, L-shaped metal pieces, L-shaped sheet pieces or ladder-shaped pins. The second fasteners 62 fixedly connects with the third reinforcement pieces 42 by welding.

[0039] As FIG. 8, the four sides of the lateral plastic composite board 20 are separately inside embedded with a fourth reinforcement piece 46, a fifth reinforcement piece 50 and a sixth reinforcement piece 54, to form reinforcement frame liner. The reinforcement frame has three reinforcement poles 55 in landscape orientation. The fourth reinforcement piece 46 has two second buckle holes 48 outside of the lateral plastic composite board 20; the fifth reinforcement piece 50 has third buckle hole 52 outside of the lateral plastic composite board 20; the sixth reinforcement piece 54 has two third fasteners 56. The fourth reinforcement piece 46 and the fifth reinforcement piece 50 and the sixth reinforcement piece 54 are all pipe fittings, extrusion shaped materials, injection molding pieces or hardware complex pieces. The third fasteners 56 are plastic hooks, L-shaped metal pieces, L-shaped sheet pieces or ladder-shaped pins. The third fasteners 56 fixedly connects with the sixth reinforcement pieces 54 by welding. Three runners 64 are fixedly installed on the reinforcement pole 55.

[0040] Faceplates 22 and soleplates 24 of the plastic composite boards 14 and 16 and 18 and 20 also have paper

honeycomb cores or plastic honeycomb cores or epislastic stuffing except of reinforcement pieces and liners 28.

[0041] Every buckle hole has suited structures with corresponding fastener.

[0042] As FIGS. 1 to 3, the left and the right plastic composite boards 20 fixedly connect with the apical plastic composite board 14 by four third fasteners 56 hanging into the four first buckle holes 38. The bottom plastic composite board 16 fixedly connects with the left and the right plastic composite boards 20 by two first fasteners 41 hanging into the two second buckle holes. The back plastic composite board 18 fixedly connects with the left and the right plastic composite boards 20 by four second fasteners 62 hanging into four second buckle holes 48. The fixed connection of every plastic composite boards shows L-shape.

[0043] As FIG. 10, the drawer 12 is made up of five plates: a bottom side plate 68, left and right side plates 70, a front side plate 72 and a back side plate 74. The five side plates are connected with each other by hanging. The front side plate 72 is plastic composite board, which has same structure with above plastic composite board.

[0044] As FIG. 11, both left side and right side of the bottom side plate have four fourth fasteners 76, the back side of the bottom side plate 68 has three fifth fasteners 78.

[0045] As FIG. 12, the underside of the back side plate 74 has three fourth buckle holes 80. The upper end of the back side plate 74 extends ahead to form a first orientation piece 82. The middle part of the front end side of the back side plate 74 extends downwards to form a second orientation piece 84. The left and the right end sides of the first orientation piece 82 extend downwards to form the third orientation pieces 86.

[0046] As FIG. 13, both the undersides of the left and the right side plates 70 have four fifth buckle holes 88. Both the front sides of the left and the right side plates 70 extend outside to form joined piece 90. Both upper sides of the left and the right side plates 70 extend outside to form L-shaped pieces 92. Two L-shaped pieces 92 cooperate with the left and the right side plates 70 to form runner. Both back sides of the left and the right lateral plates 70 extend inside to form block piece 93. Both the back side of the left and right lateral plates 70 extend ahead to form fourth orientation piece 94.

[0047] As FIG. 10, the bottom side plate 68 fixedly connects with the back side plate 74 by three fifth fasteners 78 buckling into three fourth buckle holes 80. The left and the right side plates 70 fixedly connect with the bottom side plate 68 by fourth fastener 76 buckling into fifth buckle hole. The left and the right side plates 70 fixedly connect with the front side plate 72 by joined piece 90.

[0048] The fourth orientation piece 94 fixedly joints with the third orientation piece 86. The back side of the back side plate 74 joints with the front side of the block piece 93.

[0049] As FIGS. 1 and 2 and 3 and 9, the inner side of the left and the right plastic composite boards 20 have three runners 64. The front side of the runners 64 have first idler wheels 66; the back end of the runners 64 has a concave. Outside end of the left and the right side plates 70 have second idler wheels. Cooperation of the runners 64 and drawers 12 is known knowledge.

Embodiment 2

[0050] As FIGS. 14 to 17, the difference of the present embodiment with the embodiment 1 is: drawer 5 is made up of five plastic composite plates. The drawer 5 comprises bottom drawer plate 121, left drawer plate 122, right drawer plate 123, front drawer plate 124 and back drawer plate 125.

[0051] The front drawer plate 124 comprises a faceplate, a soleplate, a perforated plate and a liner. The perforated plate

is filled between the faceplate and the soleplate, the liner is sandwiched between the faceplate and the soleplate, and the liner entirely covers the perforated plate along the periphery of the perforated plate. Two front insert-meet pieces 126 fixedly connect with the liner of the front drawer plate 124. Left and right end of the front drawer 124 extend backwards to form left and right wrapped edges 241.

[0052] As FIG. 16, the front insert-meet piece 126 comprises a body 261; the left and the right oblong frame side of the body 261 extend ahead to form cooperation piece 262; the left and the right sides of the cooperation piece 262 separately have five buckles 263. The body 261 comprises three fastness hole 264 which cooperate with three fastness bolts. The front insert-meet piece 126 spirally connect with the liner of the front drawer 124.

[0053] Both the bottom drawer plate 121 and the back drawer plate 125 comprise faceplate, soleplate, perforated plate and liner. The perforated plate is filled between the faceplate and the soleplate; the liner is sandwiched between the faceplate and the soleplate; the liner entirely covers the perforated plate along the periphery of the perforated plate. Two back insert-meet pieces 127 fixedly connect with the liner of the back drawer plate by bolts. In producing, firstly get faceplate and soleplate by suction molding, then get the present plastic composite board.

[0054] The back insert-meet piece 127 comprises a body; the left and right sides of back of the body extend backwards to form cooperation piece; the left and right sides of the cooperation piece have some buckles. The back insert-meet piece has the same structure with the front insert-meet piece.

[0055] Both the left drawer plate 122 and the right drawer plate 123 comprise a faceplate, a soleplate, a perforated plate and a liner. The perforated plate is filled between the faceplate and the soleplate; the liner is sandwiched between the faceplate and the soleplate; the liner entirely covers the perforated plate along the periphery of the perforated plate. The front sides of the liners of the left drawer plate 122 and the right drawer plate 123 have front insert-meeted pieces 128; The back sides of the liners of the left drawer plate 122 and the right drawer plate 123 have back insert-meeted pieces 129. The front insert-meeted pieces 128 and the back insert-meeted pieces 129 fixedly connect with the liners by bolts. Both the front insert-meeted pieces 128 and the back insert-meeted pieces 129 are sandwiched between the faceplates and the soleplates.

[0056] As FIG. 17, the front insert-meeted piece 128 comprises a bottom piece 281 and a lateral piece 282; the lateral piece 282 fixedly connect the edge of the bottom piece 281. The joint of two lateral pieces 282 and the bottom piece 281 have five nicks 283, which cooperate with buckles 263 of the front insert-meet piece 126. The underside of the front insert-meeted piece 128 has fixed trough 284 for the bottom drawer plate 121; the out side of the front insert-meeted piece 128 has path runner 285. The back insert-meeted piece 129 has the same structure with the front insert-meeted piece 128. The underside of the outside of the left drawer plate 122 has left runner; the bottom of the left drawer plate 122 has left fixed trough 137.

[0057] The right drawer plate 123 has the same structure with the left drawer plate 122, accordingly it has right runner 135 and right fixed trough 138. The left runner and the right runner is symmetrical.

[0058] The two sides of the bottom drawer plate 121 insert into the bottom fixed troughs 137 and 138 of the right drawer plate 123 and the left drawer plate 122; the right drawer plate 123 and the left drawer plate 122 fixedly connects with the front drawer plate 128 by front insert-meeted piece 128; the

right drawer plate 123 and the left drawer plate 122 fixedly connects with the back drawer plate 125 by back insert-meet piece 129;

INDUSTRY PRACTICABILITY

[0059] Every parts of the present invention are knock-down hanging connection, and are all or partly plastic composite boards, are easy machining, simple assembly, has good industry practicability.

1. A combined and upright file cabinet, comprising: a file cabinet body including an apical plate and a lateral plate and a backboard, a plurality of drawers which moveably link with the file cabinet body, said file cabinet body and drawers are partly or all plastic composite boards, the connections of each said parts of the file cabinet are knock-down; said plastic composite board has a faceplate, a soleplate, a perforated plate and a liner; the perforated plate is filled between the faceplate and the soleplate, the liner is sandwiched between the faceplate and the soleplate, and the liner entirely or interval partly covers the perforated plate along the periphery of the perforated plate.

2. The combined and upright file cabinet according to claim 1, wherein the mutual connections of the plastic composite boards of the file cabinet body are a knock-down hanging connection; said every two plastic composite boards are a hanging connection: a first plastic composite board at least having a pair of sides inside embedded with liner as reinforcement pieces, a second plastic composite board at least having a pair of sides inside embedded with the liner as reinforcement pieces, and the side reinforcement piece of the connection of the first plastic composite board and the second plastic composite board has a buckle hole outside of the first plastic composite board, accordingly the reinforcement piece of the second plastic composite board has a fastener protruding outside of the second plastic composite board; the first plastic composite board fixedly connects with the second plastic composite board by buckling the fastener into the buckle hole.

3. The combined and upright file cabinet according to claim 2, wherein said four sides of the lateral plate of the file cabinet body are all embedded with liners as reinforcement pieces to form reinforcement frame, which has several reinforcement poles in landscape orientation; runners are installed on the transverse reinforcement poles.

4. The combined and upright file cabinet according to claim 1, wherein both the faceplate and the soleplate of said plastic composite board are plastic combined boards of vacuum molding, the superposition sides of the faceplate and the soleplate are located on the side of the plastic composite board, the superposition side of the faceplate and the soleplate connect with each other by jointing or gluewater; the plastic composite board is filled with paper honeycomb core or plastic honeycomb core or epislastic stuffing; or both the faceplate and the soleplate of the plastic composite board are plastic pieces, the circumferences of the faceplate and the soleplate are enwrapped by enveloping regulas, the plastic composite board is filled with paper honeycomb core or plastic honeycomb core or epislastic stuffing; or both the faceplate and the soleplate of the plastic composite board are

single layer or multi-layer plastic boards made by vacuum molding, the thickness of the plastic board is in the range of 0.3 to 4 mm.

5. The combined and upright file cabinet according to claim 4, wherein the surfaces of the faceplate and the soleplate of said plastic composite board are printed with a printing layer of grain of wood or marbling or complexed with a film layer of grain of wood or marbling.

6. The combined and upright file cabinet according to claim 2, wherein the reinforcement pieces embedded into the plastic composite board are pipe fittings, extrusion shaped materials, injection molding pieces or hardware complex pieces.

7. The combined and upright file cabinet according to claim 2, wherein the fasteners of the second plastic composite board fixedly connects with the reinforcement piece embedded into the second plastic composite board by jointing or a rivet or a screw thread.

8. The combined and upright file cabinet according to claim 2, wherein said fasteners are plastic hooks, L-shaped metal pieces, L-shaped sheet pieces or ladder-shaped pins; said buckle holes are rectangle holes or oblong holes or ladder holes; the fasteners correspond with the buckle holes.

9. The combined and upright file cabinet according to claim 8, wherein the fixed connection of the first plastic composite board and the second plastic composite board is "L" shaped, "T" shaped or "-" shaped.

10. The combined and upright file cabinet according to claim 1, wherein said drawer is made up of five plates: a bottom side plate, a left side plate, a right side plate, a front side plate and a back side plate; said every two side plates are of a hanging connection: the first side plate has a fastener and the second side plate has a buckle hole to accept the fastener; the drawer is made up of the bottom side plate, the left side plate, the right side plate, the front side plate and the back side plate by the fasteners hanging into the buckle holes.

11. The combined and upright file cabinet according to claim 10, wherein said front side plate is plastic composite board.

12. The combined and upright file cabinet according to claim 1, wherein said drawer is made up of five plates: a bottom drawer plate, a left drawer plate, a right drawer plate, a front drawer plate, a back drawer plate; two front insert-meet pieces are installed at two sides of the inner side of the front drawer plate, two back insert-meet pieces are installed at two sides of the inner side of the back drawer plate; correspondingly insert-meeted pieces are installed at an end side of each of the left and the right drawer plates; the left drawer plate and the right drawer plate fixedly connect with the front drawer plate and the back drawer plate by insert-meet pieces inserting into insert-meeted pieces; the downside of the inner side of the left drawer plate and the right drawer plate has fixed troughs, the outside has runners; the bottom drawer plate fixedly connects with the left drawer plate and the right drawer plate by being inserted into the fixed troughs.

13. The combined and upright file cabinet according to claim 12, wherein said drawer plates are all plastic composite plates.

* * * * *