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A separate protective photo frame

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Abstract of descriptions

This utility model discloses a separate protective photo frame, including photo frame noumenon. Suspension groove is set at the side of photo frame noumenon near the top. The suspension groove is T-shaped groove and passes through the photo frame noumenon. The suspension groove is equipped with suspension connecting piece. The photo frame noumenon owns ladder-shaped through-groove. Transparent plate and pressing plate are set in the through-groove. At least two threaded holes are symmetrically set at the side of photo frame noumenon. The threaded holes pass through the through-groove. Screws are in the threaded holes. Oval pressing block is set on the end where the screws extend into the through-groove. The pressing block fits with the pressing plate. Transverse dividing strip and lengthways dividing strip are also set in the through-groove. The transverse dividing strip and lengthways dividing strip are orthogonal and are located at the front end of transparent plate. The first threaded hole is set at the rear end of photo frame noumenon near the bottom.

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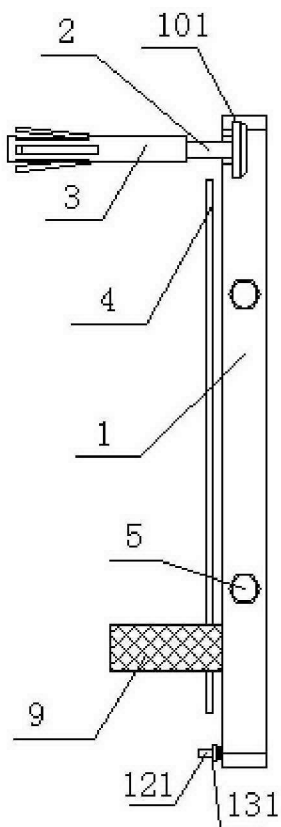


Fig.1

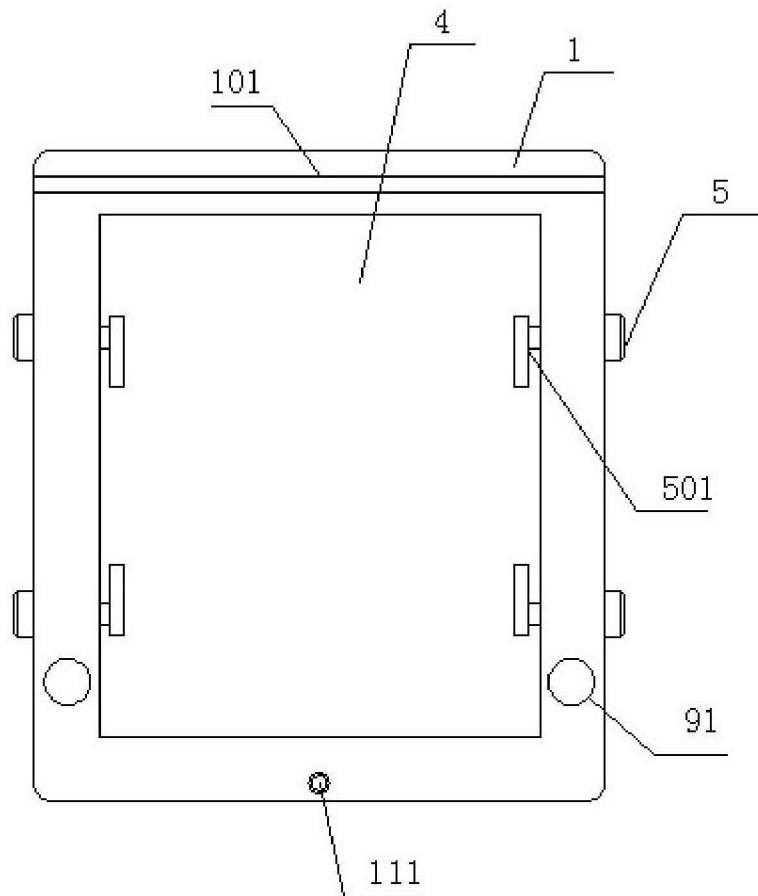


Fig.2

A separate protective photo frame

Technical field

This utility model relates to a separate protective photo frame.

Background technology

The photo frame is a common household decoration article. In existing technology, most photo frames fix photos through the pressing plate at the back, and the photo frames are suspended through screws. But, suspension by screws is blind, so it is necessary to adjust many times to suspend the photo frame. It is troublesome to operate.

Invention content

The technical problem to be solved by this utility model is to provide a separate protective photo frame. During suspending the device, the suspension connecting piece is fixed well first. Then, the suspension connecting piece directly slips into one side of suspension groove until the photo frame nomenclature keeps horizontal. The elastic component can prevent the bottom of photo frame nomenclature from colliding and play certain supporting role to keep the photo frame nomenclature from wobbling. This device achieves fixation of pressing plate through the pressing plate, so the fixation is firm. Meanwhile, the fixed flatness of photo can be ensured. The transverse dividing strip and lengthways dividing strip can divide the photo frame nomenclature into multiple small photo frames. In this way, multiple photos can be placed in the photo frame nomenclature to meet different demands.

To solve the above problem, this utility model adopts the following technical proposal:

A separate protective photo frame includes photo frame noumenon. Suspension groove is set at the side of photo frame noumenon near the top. The suspension groove is T-shaped groove and passes through the photo frame noumenon. The suspension groove is equipped with suspension connecting piece. The photo frame noumenon owns ladder-shaped through-groove. Transparent plate and pressing plate are set in the through-groove. At least two threaded holes are symmetrically set at the side of photo frame noumenon. The threaded holes pass through the through-groove. Screws are in the threaded holes. Oval pressing block is set on the end where the screws extend into the through-groove. The pressing block fits with the pressing plate. Transverse dividing strip and lengthways dividing strip are also set in the through-groove. The transverse dividing strip and lengthways dividing strip are orthogonal and are located at the front end of transparent plate. The first threaded hole is set at the rear end of photo frame noumenon near the bottom. Supporting rod is in the first threaded hole. Polygonal force application part is on the outside of supporting rod. Counter bores are set at the rear end of photo frame noumenon and at the left and right near the bottom. Elastic component is in the counter bore.

Optimally, the transverse dividing strip and lengthways dividing strip are of integrated structure and present the shape of a cross on the whole.

Optimally, the end where the suspension connecting piece fits with the suspension groove is T-shaped so as to fit with the suspension groove.

Optimally, four peak angles outside the photo frame noumenon are of circular arc transition. The thickness of photo frame noumenon is 8mm-12mm.

Optimally, the thickness of transparent plate is 2mm-3mm. The transparent plate

is acrylic plate or glass plate. The pressing plate is PVC plastic plate.

Beneficial effects of this utility model are as follows: during suspending the device, the suspension connecting piece is fixed well first. Then, the suspension connecting piece directly slips into one side of suspension groove until the photo frame noumenon keeps horizontal. The elastic component can prevent the bottom of photo frame noumenon from colliding and play certain supporting role to keep the photo frame noumenon from wobbling. This device achieves fixation of pressing plate through the pressing plate, so the fixation is firm. Meanwhile, the fixed flatness of photo can be ensured. The transverse dividing strip and lengthways dividing strip can divide the photo frame noumenon into multiple small photo frames. In this way, multiple photos can be placed in the photo frame noumenon to meet different demands. The structure of this device is simple, and its cost is low, so it is suitable for promotion.

Descriptions of attached figures

To explain the implementation example or the technical proposal more clearly, the attached figure used in the implementation example or the technical proposal is simply introduced as follows. Obviously, the attached figure just describes some implementation examples of this utility model. For common technical personnel in this field, they can gain other attached figures under the precondition of no creative work.

Fig.1 is side view of this utility model;

Fig.2 is rear view of photo frame noumenon;

Fig.3 is front view of photo frame noumenon.

Detailed implementation way

The optimized implementation example of this utility model is elaborated as follows in combination of the attached figure so that the advantages and features of this utility model can be easily understood by technical personnel in this field and the protection scope of this utility model can be defined more clearly and explicitly.

According to Figs.1-3, a separate protective photo frame includes photo frame nomenclature 1. Suspension groove 101 is set at the side of photo frame nomenclature 1 near the top. The suspension groove 101 is T-shaped groove and passes through the photo frame nomenclature 1. The suspension groove 101 is equipped with suspension connecting piece 2. Expansion screw base 3 is connected at one end where suspension connecting piece 2 is away from the suspension groove 101. The photo frame nomenclature 1 owns ladder-shaped through-groove (not shown). Transparent plate 44 and pressing plate 4 are set in the through-groove. At least two threaded holes (not shown) are symmetrically set at the side of photo frame nomenclature 1. The threaded holes pass through the through-groove. Screws 5 are in the threaded holes. Screws 5 extend into the through-groove. Oval pressing block 501 is set on the end where the screws 5 extend into the through-groove. The pressing block 501 fits with the pressing plate 4. Transverse dividing strip 7 and lengthways dividing strip 8 are also set in the through-groove. The transverse dividing strip 7 and lengthways dividing strip 8 are orthogonal and are located at the front end of transparent plate 44. The first threaded hole 111 is set at the rear end of photo frame nomenclature 1 near the bottom. Supporting rod 121 is in the first threaded hole 111. Polygonal force application part 131 is on the outside of supporting rod 121. Counter bores 91 are set

at the rear end of photo frame noumenon 1 and at the left and right near the bottom. Elastic component 9 is in the counter bore.

As an optimal implementation example, the transverse dividing strip 7 and lengthways dividing strip 8 are of integrated structure and present the shape of a cross on the whole.

As an optimal implementation example, the end where the suspension connecting piece 2 fits with the suspension groove 101 is T-shaped so as to fit with the suspension groove 101.

As an optimal implementation example, four peak angles outside the photo frame noumenon 1 are of circular arc transition. The thickness of photo frame noumenon 1 is 10mm.

As an optimal implementation example, the thickness of transparent plate 44 is 2mm. The transparent plate 44 is acrylic plate. The pressing plate 4 is PVC plastic plate.

Beneficial effects of this utility model are as follows: during suspending the device, the suspension connecting piece is fixed well first. Then, the suspension connecting piece directly slips into one side of suspension groove until the photo frame noumenon keeps horizontal. The elastic component can prevent the bottom of photo frame noumenon from colliding and play certain supporting role to keep the photo frame noumenon from wobbling. This device achieves fixation of pressing plate through the pressing plate, so the fixation is firm. Meanwhile, the fixed flatness of photo can be ensured. The transverse dividing strip and lengthways dividing strip can divide the photo frame noumenon into multiple small photo frames. In this way,

multiple photos can be placed in the photo frame noumenon to meet different demands. The structure of this device is simple, and its cost is low, so it is suitable for promotion.

The above content shows and describes the fundamentals, main features and advantages of this utility model. The technicians of this industry should know this utility model is not limited to the implementation example mentioned above. The above implementation example and descriptions just depict the principle of this utility model. There will be various changes and improvements for this utility model without deviation from the spirit and range of this utility model. These changes and improvements will be included in the range of the protected utility model. The scope of protection required by this utility model is defined by the claim attached and its equivalent.

Claim

1. A separate protective photo frame is characterized by that, it includes photo frame noumenon. Suspension groove is set at the side of photo frame noumenon near the top. The suspension groove is T-shaped groove and passes through the photo frame noumenon. The suspension groove is equipped with suspension connecting piece. Expansion screw base is connected at one end where suspension connecting piece is away from the suspension groove. The photo frame noumenon owns ladder-shaped through-groove. Transparent plate and pressing plate are set in the through-groove. At least two threaded holes are symmetrically set at the side of photo frame noumenon. The threaded holes pass through the through-groove. Screws are in the threaded holes. Screws extend into the through-groove. Oval pressing block is set on the end where the screws extend into the through-groove. The pressing block fits with the pressing plate. Transverse dividing strip and lengthways dividing strip are also set in the through-groove. The transverse dividing strip and lengthways dividing strip are orthogonal and are located at the front end of transparent plate. The first threaded hole is set at the rear end of photo frame noumenon near the bottom. Supporting rod is in the first threaded hole. Polygonal force application part is on the outside of supporting rod. Counter bores are set at the rear end of photo frame noumenon and at the left and right near the bottom. Elastic component is in the counter bore.
2. As described in Claim 1, the separate protective photo frame is characterized by that, the transverse dividing strip and lengthways dividing strip are of integrated structure and present the shape of a cross on the whole.
3. As described in Claim 1, the separate protective photo frame is characterized by

Claim

that, the end where the suspension connecting piece fits with the suspension groove is T-shaped so as to fit with the suspension groove.

4. As described in Claim 1, the separate protective photo frame is characterized by that, four peak angles outside the photo frame noumenon are of circular arc transition. The thickness of photo frame noumenon is 8mm-12mm.
5. As described in Claim 1, the separate protective photo frame is characterized by that, the thickness of transparent plate is 2mm-3mm. The transparent plate is acrylic plate or glass plate. The pressing plate is PVC plastic plate.

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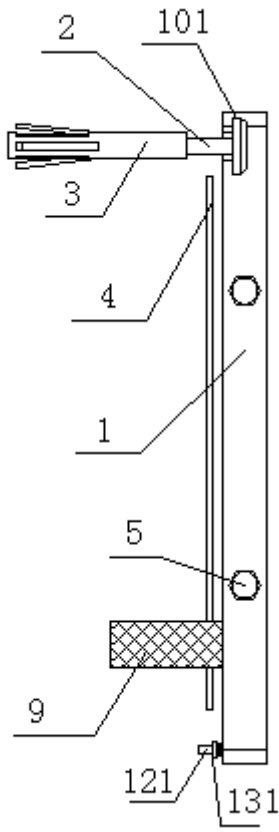


Fig.1

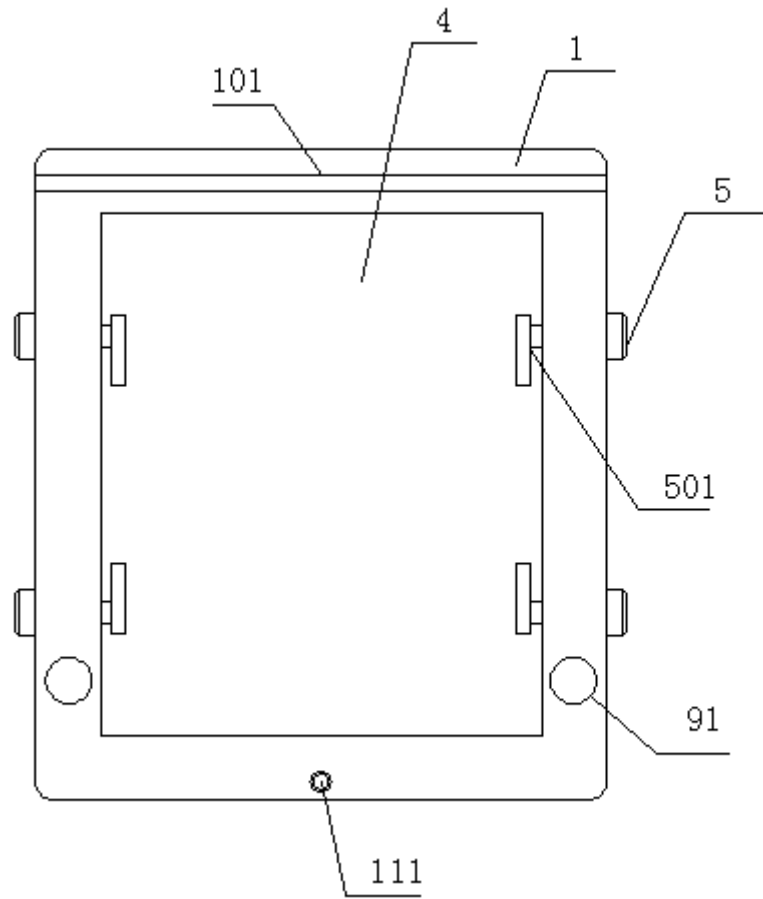


Fig.2

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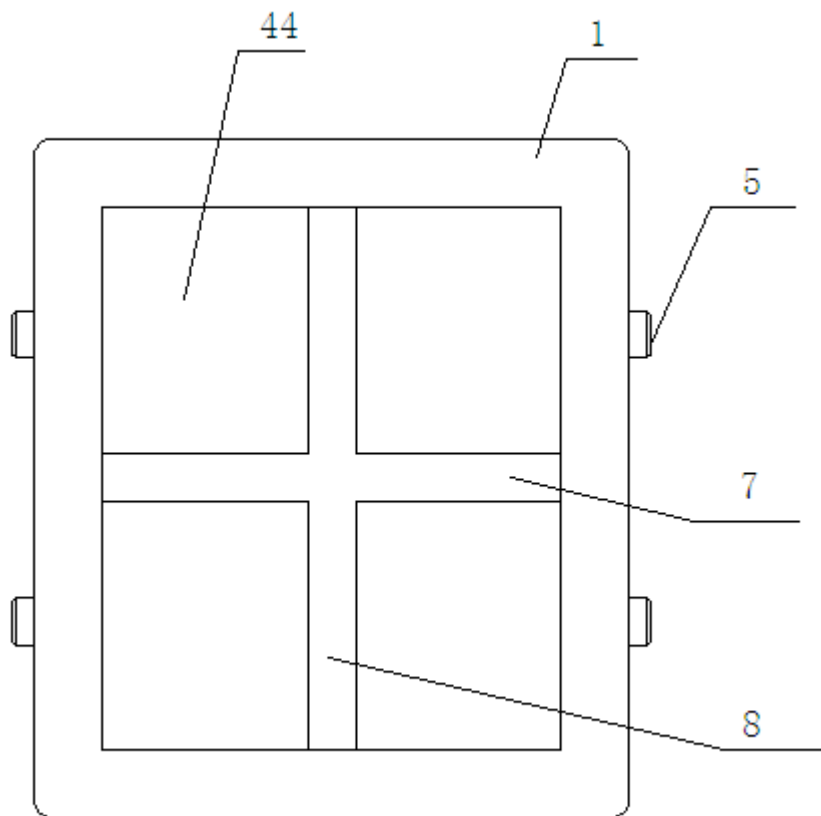


Fig.3