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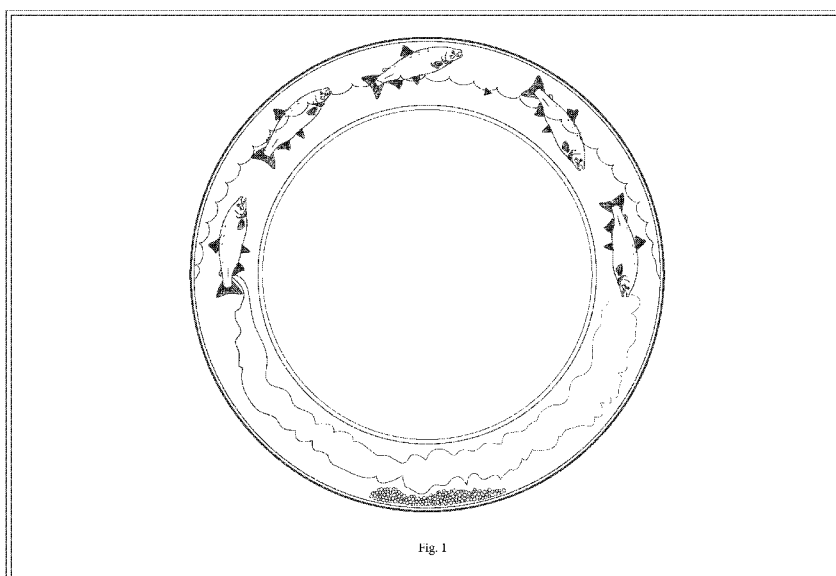
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(54) Title: 3D MAGNETIC EZ FRAME



(57) Abstract: The disclosed herein is a picture frame for holding and displaying content. In one embodiment, the present invention is an arrangement for displaying 3D photos and/or artwork on an outer face of the frame. The arrangement comprises of a photo and/or an artwork with an attaching mechanism and a photo frame having a plurality of sides and/or theme. The attaching mechanism the photo frame uses magnet, the frame comprises of a front face, rear face, and a surface for attaching the photos and/or artwork to the frame, further the frame is composed of cold-rolled steel or other metallic magnetic material.



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(A) 3D MAGNETIC EZ FRAME

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(B) CROSS REFERENCE TO RELATED APPLICATIONS

Not applicable.

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(C) FEDERALLY SPONSORED RESEARCH AND DEVELOPMENT

Not applicable.

(D) MICROFICHE

Not applicable

(E) BACKGROUND OF THE INVENTION

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(1)FIELD OF THE INVENTION

This invention relates to frames used to mount and display pictures, photographs, certificates, documents, or the like, and more specifically to three dimensional framed display and 3D picture frame.

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(2)BACKGROUND

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Picture frames are commonly used to mount, display, and protect pictures or documents. Most picture frames are comprised of an outside margin that borders the photograph or document, a transparent pane or sheet that fits within the outside margin and which serves to protect the photograph or document, and one or more back plates. The photograph or document is mounted by the removal of the one or more back plates,

the insertion of the picture or document behind the transparent pane or sheet, the placement of the back plate over the backside of the picture or document, and the securing of the back plate in place. The transparent pane or sheet, the photograph or document, and the one or more back plates typically will fit into a recess in the outside margin.

It is often desired to replace the content within the picture frame with new content. For wooden frames, this operation is accomplished by removing the brads or nails. For metal frames, this operation is accomplished by bending the metal tabs up and away from the backing sheet or backing board. After the new content is placed in a wooden frame, brads or nails are pounded back into the wooden frame to secure the content. After the content is placed in a metal frame, the tabs of the metal frame are bent downwardly against the backing sheet or board to secure the content within the frame.

A disadvantage with conventional wooden frames is that pounding brads or nails into the wood is tedious and often leads to bent nails or brads and bruised thumbs when the tack hammer strikes the nail obliquely or misses the nail completely and strikes the hand of the user. A disadvantage with metal frames that have metal tabs is that bending the metal tabs to change the content cold works the metal and makes it brittle. Accordingly, metal tabs may soon break off, and the frame will thereby eventually become unusable. Another disadvantage is that these operations are time consuming. The operations of inserting, securing, and replacing the content are cumbersome and do not afford quick and easy access to the content.

Numerous securing devices are on the market for securing picture frames into an aligned position. These devices have numerous drawbacks. One such device, for example, includes double-adhesive tape strips that are secured to the back of the main frame and to the wall for securing the picture frame into position. The problem with this arrangement is that it is difficult to temporarily dismount the picture frame and remount the picture frame in an aligned position. It would be necessary to obtain new securing pads and replace the old ones with the new ones any time the picture frame is moved.

To address these problems and to overcome the shortcomings of conventional picture frames, a configurable modular picture frame is provided. An objective of the present invention is to provide an improved picture frame that has the ability to rapidly change the content, readily reconfigure for mounting on vertical or horizontal outer face of the frame, and reorient. A related objective is to provide a picture frame that has a quick connect and quick disconnect mechanism for inserting, securely retaining, and easily removing content with a minimum amount of effort. Accordingly, it is another objective of the present invention to provide a picture frame that does not require the use of brads, nails, metal tabs, wedges, or clumsy clamps for holding content in place.

(F) BRIEF SUMMARY OF THE INVENTION

To achieve these and other objectives, and in view of its purposes, the present invention provides a picture frame for holding and displaying content.

In one embodiment, the present invention is an arrangement for displaying 3D motion lenticular photos and/or artwork on an outer face of the frame. The arrangement comprises of a photo and/or an artwork with an attaching mechanism and a photo frame having a plurality of sides and/or theme. The attaching mechanism the photo frame uses magnet, the frame comprises of a front face, rear face, and a surface for attaching the photos and/or artwork to the frame, further the frame is composed of cold-rolled steel or other metallic magnetic material.

It is the objective of the current invention to provide a 3D motion frame showing jumping a fish for example Salmon. The center of 3 D frame will include space to display a photo, certificate, or the like.

The summary is provided to introduce a selection of concepts in a simplified form that are further described below in the detailed description. This summary is not intended to identify key features or essential features of the claimed subject matter, nor is it intended to be used as an aid in determining the scope of the claimed subject matter.

In this respect, before explaining at least one embodiment of the invention in detail, it is to be understood that the invention is not limited in its application to the details of construction and to the arrangements of the components set forth in the following description or illustrated in the drawings. The invention is capable of other embodiments and of being practiced and carried out in various ways. Also, it is to be understood that the phraseology and terminology employed herein are for the purpose of description and should not be regarded as limiting.

These together with other objects of the invention, along with the various features of novelty which characterize the invention, are pointed out with particularity in the disclosure. For a better understanding of the invention, its operating advantages and the specific objects attained by its uses, reference should be had to the accompanying drawings and descriptive matter in which there are illustrated preferred embodiments of the invention.

(G) BRIEF DESCRIPTION OF THE DRAWINGS

The drawings constitute a part of this specification and include exemplary embodiments to the invention, which may be embodied in various forms. It is to be understood that in some instances various aspects of the invention may be shown exaggerated or enlarged to facilitate an understanding of the invention.

FIG. 1 is a perspective view of a 3D Photo frame design according to a preferred embodiment of the present invention.

(H) DETAILED DESCRIPTIONS OF THE INVENTION

The following is a detailed description of example embodiments of the invention depicted in the accompanying drawings. The example embodiments are in such detail as to clearly communicate the invention. However, the amount of detail offered is not

intended to limit the anticipated variations of embodiments; but, on the contrary, the intention is to cover all modifications, equivalents, and alternatives falling within the spirit and scope of the present invention as defined by the appended claims. The detailed descriptions below are designed to make such embodiments obvious to a person of ordinary skill in the art.

The present invention achieves its objectives and addresses the shortcomings of the conventional picture frames in a variety of ways. When all of these objects are considered together, it becomes necessary to break the picture frame into components such that its parts can be separated from each other, if and when desired, and subsequently reattached, possibly in a different configuration. The picture frame of the present invention has a number of rapidly separable pieces, including a rapidly removable part to access the content and provide the desired quick-change feature. There are a number of components that make up the picture frame, and each of these can be treated separately or, alternatively, as part of a subassembly. Prefabricated subassemblies can use any mechanism of permanent attachment, but the individually separable components must have a mechanism of attachment that is neither permanent nor difficult to separate.

The present invention is directed to an arrangement for displaying 3D photos and/or artwork on an outer face of the frame. The arrangement comprises of a photo and/or an artwork with an attaching mechanism and a photo frame having a plurality of sides and/or theme. The attaching mechanism the photo frame uses magnet, the frame comprises of a front face, rear face, and a surface for attaching the photos and/or artwork to the frame, further the frame is composed of cold-rolled steel or other metallic magnetic material.

In one embodiment of the current invention, the 3D frame has a moving Salmon fish as the first content is a plane background picture and the third content includes one or more floating pictures of the salmon eggs positioned at the bottom of the frame.

The 3D picture frame of the present invention includes a molded frame body that is made of metal, Porcelain, glass, plastic or wood would have EZ magnetic glued on

attachments to hold photos in place provided with these non-metal frames. A plurality of mounting holes is provided to securely mount the frame body on a vertical wall. All above-mentioned contents can be mounted on or removed from this frame body without taking down the frame body from the wall.

5 A flexible background transparent plate is coupled with the background picture to be loaded in the frame body and shaped by the curved back wall to create a 3D effect to the displayed background picture.

10 The 3D picture frame is a frame glass assembly that may be comprised of a molded frame glass and a flexible frame glass or two flexible frame glasses. One or more floating pictures are sandwiched between these two glasses. The frame glass assembly, along with the sandwiched floating pictures, can be placed on the wall-mounted frame body for covering the top opening and the front opening of the frame body. Since the top opening of the frame body is covered only by clear glasses, there will be no shadow cast on the displayed background picture, regardless of the direction of the surrounding light.

15 The Fig 1 of the current invention shows a 3 D motion frame showing Salmons jumping into and out of the water and giving a 3D effect of water splashing. The figure also shows a layer of Salmon eggs at the bottom of the frame, giving a feel of eggs floating under water. The center part of the frame is the space that can be used for displaying photos, certificates, or, optionally, a poem written on Salmon to compliment the theme.

20 In summary, the 3D framed display of the present invention basically provides the following advantages over the conventional 2D framed display. First, it enriches the contents of a framed display. The second advantage of the present 3D framed display is that it presents a curved background picture and a bottom picture. These two pictures create a vivid 3D presentation not seen before and a world apart from the traditional 2D
25 picture display.

The design of the frame of the invention would include many shapes and sizes of the 3D Magnetic EZ Frame. The Circle style frame drawing is one design of the various aspects of size and shape.

5 Although specific embodiments have been illustrated and described herein, it will be appreciated by those of ordinary skill in the art that any arrangement, which is calculated to achieve the same purpose, may be substituted for the specific embodiment shown. This application is intended to cover any adaptations or variations of the present invention. Therefore, it is manifestly intended that this invention be limited only by the claims and the equivalents thereof.

10 Although the invention has been explained in relation to its preferred embodiment, it is to be understood that many other possible modifications and variations can be made without departing from the spirit and scope of the invention.

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CLAIMS

I Claim:

1. An arrangement for displaying photos and/or artwork on an outer face of the frame comprising:
5 a photo and/or an artwork with a attaching mechanism ; and
a photo frame having a plurality of sides and/or theme.
2. The arrangement for displaying photo and/or artwork on an outer face of the frame of claim 1, wherein said attaching mechanism for said photos and/or artwork is a magnet.
3. The arrangement for displaying photo and/or artwork on an outer face of the frame of
10 claim 1, wherein said frame further comprises of a front face, rear face, and a surface for attaching said photos and/or artwork to said frame with said magnet.
4. The arrangement for displaying photo and/or artwork on an outer face of the frame of claim 1, wherein said frame being composed of cold-rolled steel or other metallic magnetic material.
- 15 5. The arrangement for displaying photo and/or artwork on an outer face of the frame of claim 1, wherein said photos and/or an artwork is a 3D photo and/or artwork.
6. The arrangement for displaying photo and/or artwork on an outer face of the frame of claim 1, wherein said frame is a 3D motion frame.
7. The arrangement for displaying photo and/or artwork on an outer face of the frame of
20 claim 1, wherein said theme displays jumping of a fish.
8. The arrangement for displaying photo and/or artwork on an outer face of the frame of claim 1, wherein said photos and/or artwork is placed at the center of said frame.
9. The arrangement for displaying photo and/or artwork on an outer face of the frame of
25 claim 1, wherein said theme surrounds said photos and/or artwork attached to said frame.
10. The arrangement for displaying photo and/or artwork on an outer surface of claim 1, wherein said photos and/or artwork is attached to said front face said of said frame.

AMENDED CLAIMS

received by the International Bureau on 15 May 2016 (15.05.2016)

What is claimed is:

1. A photo frame for introducing a 3D effect, the photo frame, comprising:
 - a molded frame body for holding photos by an attachment means, wherein said frame body includes a flexible background transparent plate, a front face and a curved back wall to create said 3D effect.
2. The photo frame as claimed in claim 1, wherein said flexible background transparent plate is coupled with a background picture.
3. The photo frame as claimed in claim 1, wherein said attachment means comprises a magnetic material glued on said molded frame body.
4. The photo frame as claimed in claim 1, wherein said 3D effect is accomplished by said background picture and a bottom picture.
5. The photo frame as claimed in claim 1, wherein said photo frame is made from an element selected from the group of metal, non-metal, porcelain, plastic or wood and combination thereof.
6. The photo frame as claimed in claim 1, wherein said photo frame is made from a glass assembly.
7. The photo frame as claimed in claim 6, wherein said glass assembly includes a molded frame glass, a flexible frame glass and/or two flexible frame glasses.
8. The photo frame as claimed in claim 1, wherein said photo frame is used for displaying photos and/or artwork on said front face.
9. The photo frame as claimed in claim 1, wherein said photos and/or artwork is placed at the center of said photo frame.

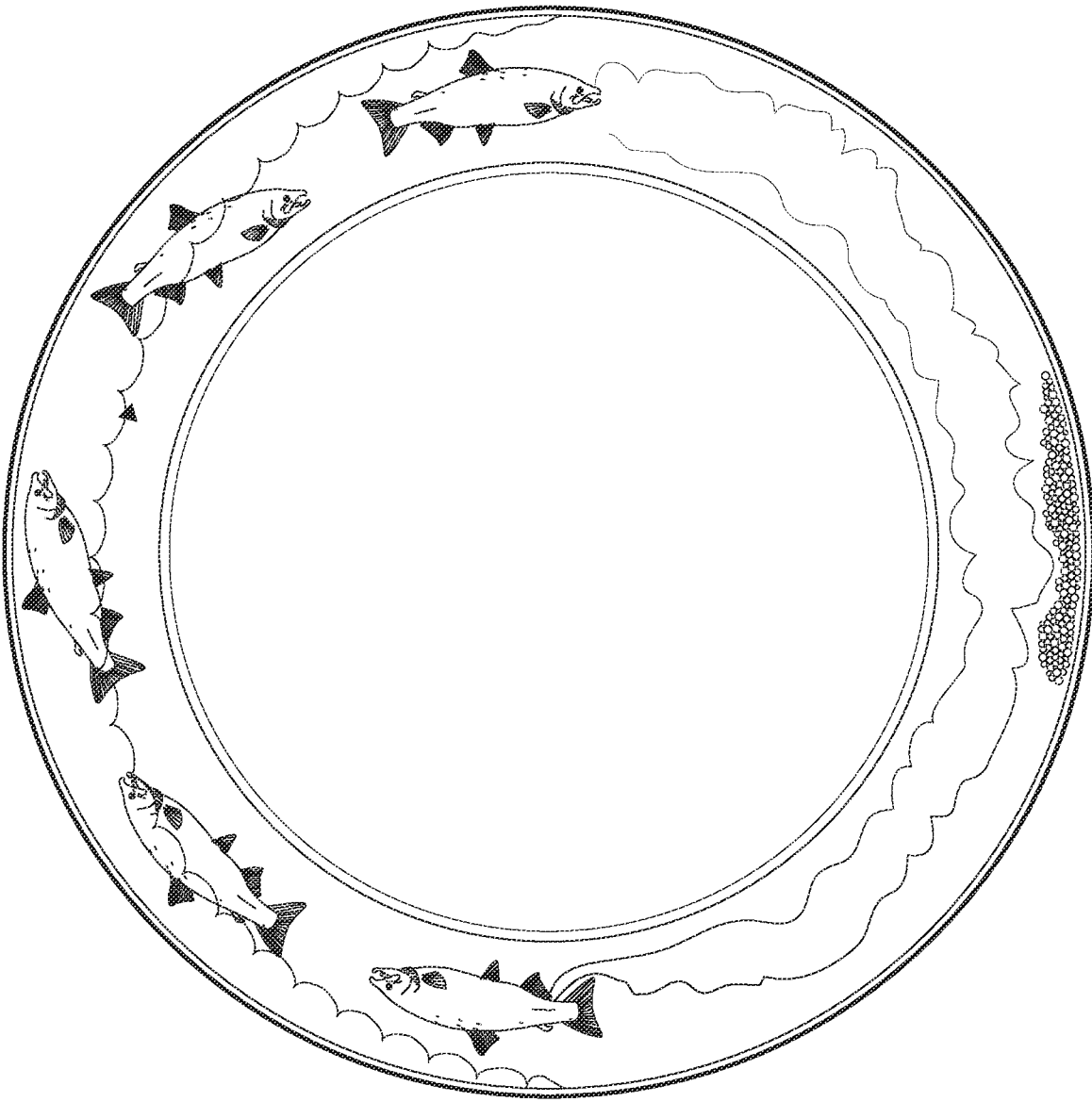


Fig. 1

INTERNATIONAL SEARCH REPORT

International application No. PCT/US15/42857

A. CLASSIFICATION OF SUBJECT MATTER
 IPC(8) - A47G 1/06, 1/17 (2015.01)
 CPC - A47G 1/06, 1/17
 According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)
 IPC(8) Classification(s): A47G 1/06, 1/08, 1/10, 1/12, 1/14, 1/16, 1/17, 1/18 (2015.01)
 CPC Classification(s): A47G 1/06, 1/0627, 1/08, 1/10, 1/12, 1/14, 1/16, 1/17, 1/18

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)
 PatSeer (US, EP, WO, JP, DE, GB, CN, FR, KR, ES, AU, IN, CA, INPADOC Data); Google; Google Scholar; ProQuest; IP.com;
 keywords: cold rolled steel, metal, magnet, fish, photo frame, 3D, three dimensional

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 5,269,083 A (VAMPATELLA C et al.) December 14, 1993; figures 1, 3; column 2, lines 10-20, 25-30, 45-50	1-5, 8-10
X	US 6,574,897 B1 (TIMMER DW) June 10, 2003; figure 7; column 6, lines 15-20	1, 6, 7
X	GB 2514852 A (GRESSWELL P) December 12, 2014; entire document	1
A	US 6,293,038 B1 (CHANG C) September 25, 2001; entire document	1-10
A	US 2,785,490 A (FABRY RJ) March 19, 1957; entire document	1-10
A	US 4,967,498 A (KAO PC) November 6, 1990; entire document	1-10

Further documents are listed in the continuation of Box C. See patent family annex.

* Special categories of cited documents:

"A" document defining the general state of the art which is not considered to be of particular relevance	"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
"E" earlier application or patent but published on or after the international filing date	"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)	"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art
"O" document referring to an oral disclosure, use, exhibition or other means	"&" document member of the same patent family
"P" document published prior to the international filing date but later than the priority date claimed	

Date of the actual completion of the international search 30 September 2015 (30.09.2015)	Date of mailing of the international search report 29 OCT 2015
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