Feb. 26, 1935. B. JEFFREYS 1,992,618

BOOK

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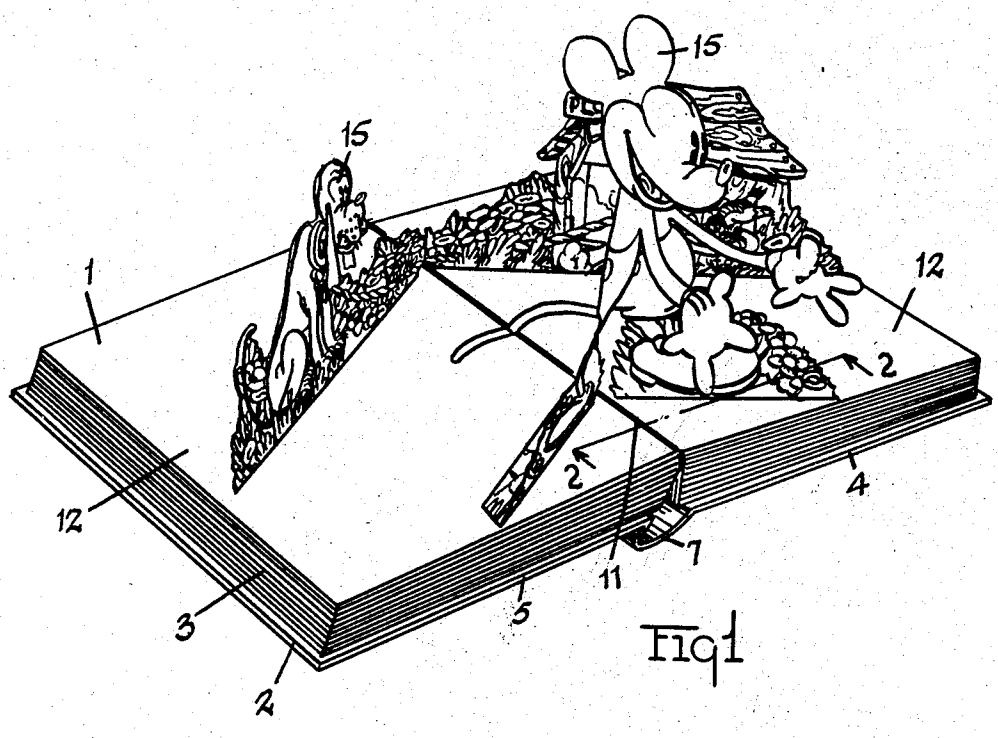


Fig 1

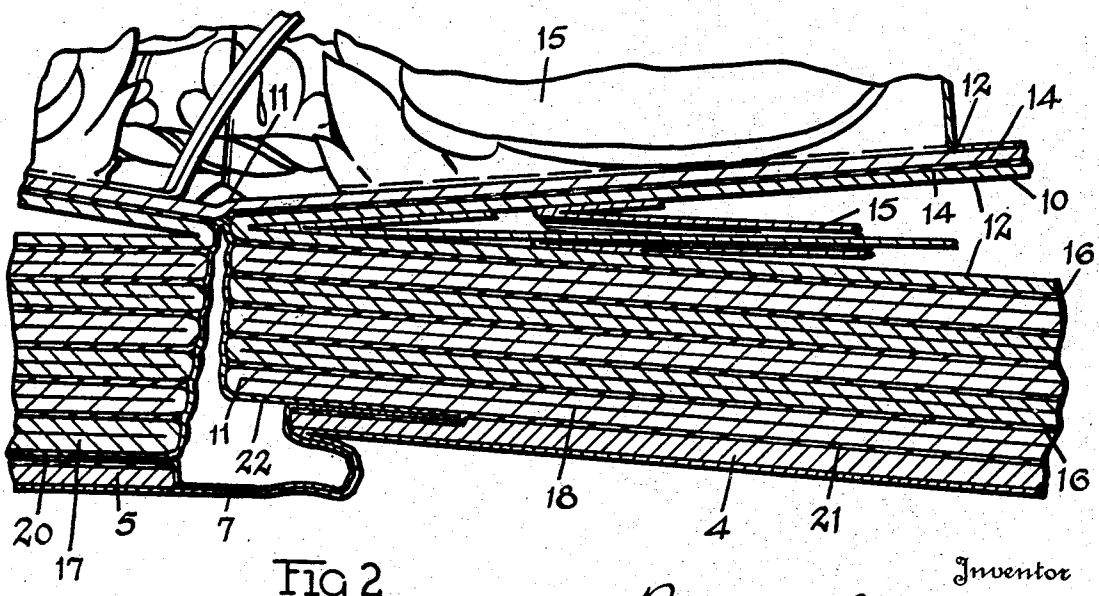


Fig 2

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BOOK

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9 Claims. (Cl. 281—38)

My invention relates to a book or pamphlet construction. More particularly my invention relates to the hanging of the folios or pages of a book in some suitable case or binding.

My invention has for one of its objects to provide a book construction having a carcass formed of a plurality of folios or pages so interlocked and connected to each other as to resist displacement with respect to each other or removal therefrom except by actual destruction, notwithstanding the exercise of great stresses and forces acting on said folios and pages in an effort to dislodge the same. A further object of my invention is to provide a book construction having a carcass part hung in a case or binding, the folios or pages of the carcass part presenting a substantially uninterrupted or unbroken surface when the book is open, substantially equal to the entire area occupied by the open book. The invention therefore provides a construction in which the pages are readily susceptible to containing without interruption an unbroken and continuous line of type or picture extending across the book from margin to margin of facing pages.

A still further object of the invention is to provide a book construction having a plurality of folios so interrelated to form the book carcass that each folio reinforces its adjacent neighbor progressively throughout the carcass and so that a strain and force exerted upon any one of the folios is borne and withstood by its neighboring folios progressively throughout. A still further object of the invention is to provide a book construction in which the folios are so reinforced by each other and formed as to enable the support thereon or attachment thereto of cutouts or movable figurines and the like and the operation or utilization of said cut-outs or figurines on the exposed surface of the folio when the book is in a normal open position. One of the many uses to which the invention readily lends itself, therefore, is in books of a type for children wherein cut-outs or figurines are connected to or supported on the surfaces of the folios and which, when the book is opened to a normal open position, assume a substantially upright position and which, upon closure of the book, fold back into the book, assuming a close parallel position relative to the folio surface.

A particular object of the invention is to provide a book construction, the carcass of which is composed of a plurality of signatures containing a single folio, each of which is scored and bent medially and connected to its adjacent signature by means of a cementitious material applied substantially generally over the entire outer surface of each signature or folio. It will be seen, therefore, that the inner facing surfaces of each folio constitute the useful print containing surface, the outer surfaces constituting a binding and reinforcing surface. A further particular object is to provide a book construction having the features herein above set forth and yet of a comparatively low cost.

The invention consists in other features and advantages which will appear from the following description and upon examination of the drawing. Structures containing the invention may partake of different forms and still embody the invention. To illustrate a practical application of the invention, I have selected a book as an example of the various structures and details thereof that contain the invention and shall describe the selected book hereinafter, it being understood that variations may be made without departing from the spirit of the invention. The particular book selected is shown in the accompanying drawing and described hereinafter.

Fig. 1 of the drawing illustrates a perspective view of the book construction and showing a cut-out as applied thereto. Fig. 2 illustrates a view of a section taken along the plane of the line 2—2 indicated in Fig. 1.

A book construction embodying my invention has a binding or case part and a carcass part. The case part has a pair of flap portions which are interjoined by a spine portion. The flap portions are preferably of a stiff nature while the spine portion is preferably flexible.

The carcass part comprises a plurality of signatures each containing a single folio. Each folio is formed from a blank which is preferably scored medially and bent along said score line upon itself. The folio when so bent has inner facing surfaces and outer surfaces. The outer surface of each folio is provided, preferably over the entire area thereof, with a coat of cementitious material and the folio is located in contiguous registering relation to its adjacent and neighboring folio so that the outer surfaces of each folio are joined together by the cementitious material.

The carcass part is preferably interjoined with the case part by cementing the outer and as yet unattached surface of the first and last folio, forming the beginning and end of the book to the surface of the flap portions of the case part.

In the particular construction shown in the drawing the book 1 has a binding or case part 2, and a carcass part 3. The case part 2 has flap portions 4 and 5. The flap portion 4 is

connected to the flap portion 5 by means of a preferably flexible spine portion 7. Preferably the flap portions 4 and 5 are formed of a stiffened material and together with the spine portion 7 form a suitable and substantially protective housing for the carcass part 3 which is located or hung therein.

The carcass part 3 is composed of a plurality of signatures each of which is composed of a single folio 10. Each folio 10 is formed from a sheet blank which is scored medially thereof, as at 11, and bent along the line of said scoring upon itself. Each folio 10 has therefore a pair of inner facing surfaces 12 and a pair of outer surfaces 14. The inner facing surfaces 12 are adapted to receive print or, as illustrated in Fig. 1 of the drawing, have connected thereto foldable cut-outs 15 and known in the trade as a "pop-up" illustration.

In order to connect successive signatures or folios 10 to each other, the outer surfaces 14 are provided with a coat of a cementitious material 16 and the outer surfaces 14 of successive folios are located substantially in surface contact and dimensional registration with each other. By interjoining the folios in surface contact and providing a cementitious means to prevent displacement therefrom, each folio is considerably strengthened and reinforced by its neighboring folio, and removal of any one folio from the carcass part can be effected only with a force great enough to overcome the combined strength of itself and neighbor. The carcass part 3 is complete when the folios thus interjoined comprise the entire book, as for example the folio 17 being the beginning, and the folio 18 being the end.

The carcass part 3 may be connected to the case part 2 in any suitable way, but preferably the outer unattached surface 14 of the beginning folio 17 is cemented as at 20 to the flap portion 5 of the case part and the outer unattached surface 14 of the closing folio 18 is cemented as at 21 to the flap portion 4 of the case part 3.

If desired, a piece of sheet material 22 may be cemented over the bent edges of the folios 10 to give a finished appearance to said ends and further integrate the signatures.

I claim:

1. A book having a carcass part, the carcass part comprising a plurality of blanks, each blank of said plurality of blanks being bent upon itself to form inner surfaces and outer surfaces, each blank of said plurality of blanks located in stacked relation to its neighboring blanks so that the outer surfaces of each blank are located in surface contact with an outer surface of one of the said neighboring blanks, a coating of a cementitious material extending substantially to the edges of the outer surfaces of each blank whereby each blank is connected to its neighboring blank and said outer surfaces thereof are maintained in said surface contact, reinforcing said neighboring blank against movement relative to other of said plurality of blanks and against removal from said stacked relation, and the inner surfaces of each blank being adapted to contain printed material.

2. A book having a carcass part, the carcass part comprising a plurality of blanks, each blank of said plurality of blanks being bent upon itself to form inner surfaces and outer surfaces, each blank of said plurality of blanks located in stacked relation to its neighboring blanks so that the outer surfaces of each blank are located in surface contact with an outer surface of one of the said neighboring blanks, a coating of a cementitious material extending about the edges of the outer surfaces of each blank whereby each blank is connected to its neighboring blank and said outer surfaces thereof are maintained in said surface contact, reinforcing said neighboring blank against movement relative to other of said plurality of blanks and against removal from said stacked relation, and the inner surfaces of each blank being adapted to contain printed material.

3. A book having a carcass part, the carcass part comprising a plurality of blanks, each blank of said plurality of blanks being bent upon itself to form inner surfaces and outer surfaces, each blank located in stacked relation to its neighboring blanks so that the outer surfaces of each blank are located in surface contact with an outer surface of one of the said neighboring blanks, affixing means extending over substantially the entire area of the outer surfaces of each blank whereby each blank is connected to its neighboring blank and said outer surfaces thereof are maintained in said surface contact, reinforcing said neighboring blank against movement relative to other of said plurality of blanks and against removal from said stacked relation, and the inner surfaces of each blank being adapted to contain printed material.

4. A book having a carcass part, the carcass part comprising a plurality of blanks, each blank of said plurality of blanks being bent upon itself to form inner surfaces and outer surfaces, each blank located in stacked relation to its neighboring blanks so that the outer surfaces of each blank are located in surface contact with an outer surface of one of the said neighboring blanks, a coating of a cementitious material extending over substantially the entire area of the outer surfaces of each blank whereby each blank is connected to its neighboring blank and said outer surfaces thereof are maintained in said surface contact, reinforcing said neighboring blank against removal from said stacked relation, and the inner surfaces of each blank being adapted to contain printed material.

5. A book having a carcass part, the carcass part containing a multiple of folios, each folio comprising a pair of sheet blanks located in close surface contact and dimensional registration with each other whereby the first sheet blank of said pair of sheet blanks forms a substantially permanent backing for the second blank of said pair of sheet blanks, a cementitious material for maintaining said pair of blanks in said relative position, the first named blank of each folio integrally connected to the second named blank of the next adjacent folio.

6. A book having a carcass part, the carcass part containing a multiple of signatures, each signature of said multiple of signatures comprising a sheet blank scored substantially centrally and bent upon itself to form a folio on either side of the said scoring, each folio having an inner surface and an outer surface, the said multiple of signatures located in stacked relation so that the outer surface of each folio thereof is contiguous to and in surface contact with an outer surface of a folio of the next adjacent signature, a cementitious material extending over the said outer surfaces to substantially the outer edges thereof for maintaining said outer surfaces in said surface

contact, and the inner surfaces adapted to contain printed material thereon.

7. A book having a carcass part comprising a plurality of blanks, each blank of said plurality of blanks being bent upon itself to form facing inner surfaces and opposed outer surfaces, a foldable cut-out connected to the inner surfaces of one of the said plurality of blanks and adapted to be moved, upon spreading of said blank, to expose the inner surfaces thereof, the said plurality of blanks located in a stacked relation, and a cementitious layer extending between each adjoining outer surface of each blank of said plurality of blanks whereby each blank is reinforced by its neighboring blank and to support said foldable cut-out when the blank to which the same is connected is spread to an open position.

8. A book having a carcass part comprising a plurality of blanks, each blank of said plurality of blanks being bent upon itself to form a pair of integrally connected folios, said pair of integrally connected folios having facing inner surfaces and opposed outer surfaces, a foldable cut-out, means for connecting the foldable cut-out to one of the inner surfaces of one of said pair of integrally connected folios whereby said foldable cut-out will be activated upon movement of said folio relative to the folio with which it is integral, said plurality of blanks located in a stacked relation so that an outer surface of each folio is located contiguous to and in surface contact with an outer surface of its neighboring folio, and a cementitious layer extending between the outer surfaces of each folio for interjoining each adjacent blank and reinforcing each folio.

9. In combination with a foldable cut-out having portions adapted to assume an upright position upon unfolding thereof, a book for containing the same having a carcass part comprising a plurality of blanks, each blank of said plurality of blanks being scored centrally and folded upon itself along said scoring to form a folio on either side of said scoring, each folio of each blank having an inner surface and an outer surface, means for connecting the foldable cut-out to the inner surfaces of any two adjacent folios whereby the cut-out will be unfolded when the said adjacent folios are moved to an open position, the said plurality of blanks located in stacked relation to each other so that the outer surface of each folio is located substantially in contiguous surface contact with the outer surface of the folio of the adjacent blank, and a coating of cementitious material extending between said continguous outer surfaces for maintaining the blanks in said stacked relation and said outer surfaces in said surface contact whereby the folio having the foldable cut-out will be reinforced and the other of said folios will be held against movement from said stacked relation.

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