United States Patent [19]

Morse

[11] **3,738,686**

[45] **June 12, 1973**

[54] **COMBINATIONAL BOOK FOR BOTH NORMAL READING AND PANORAMIC DISPLAY**

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[22] Filed: **Mar. 26, 1971**

[21] Appl. No.: **128,489**

Related U.S. Application Data

[63] Continuation-in-part of Ser. No. 831,616, June 9, 1969, abandoned.

[52] **U.S. Cl.** **283/63,** 281/33, 283/62

[51] **Int. Cl.** **B42d 15/00,** A47b 23/00

[58] **Field of Search** 281/5; 283/63, 64, 283/35, 61, 62; 46/34–36; 40/102, 104.08, 104.19

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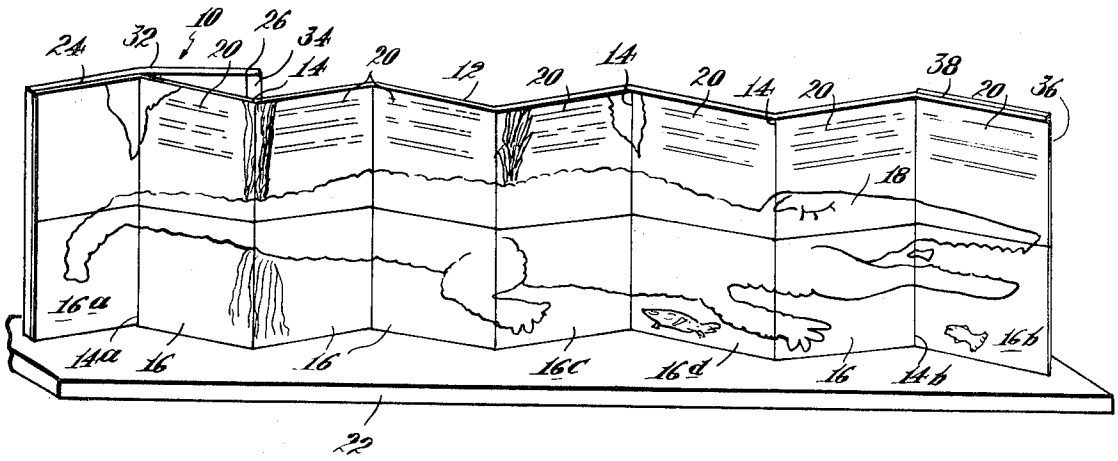
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[57] **ABSTRACT**

A book construction having a spine foldably joining front and back covers. A plurality of leaves are foldably joined together to form an elongated accordion-foldable strip. A continuous panoramic illustration and text relating to the panoramic illustration are applied to the leaves of the strip. The first leaf of the strip is fixedly or detachably engaged to the front cover. The last leaf is detachably engaged to the back cover for conventional, leaf by leaf reading of the book with the leaves held between the covers. Means are provided for stiffening the strip transversely of the strip whereby when pulled out of said covers and substantially fully extended said leaves are free standing for continuous viewing of said panoramic illustration. In a modified form of the invention, the first leaf is detachably engaged to the front cover, and a second panoramic illustration is printed on the back side of the strip.

9 Claims, 6 Drawing Figures



PATENTED JUN 12 1973

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SHEET 1 OF 4

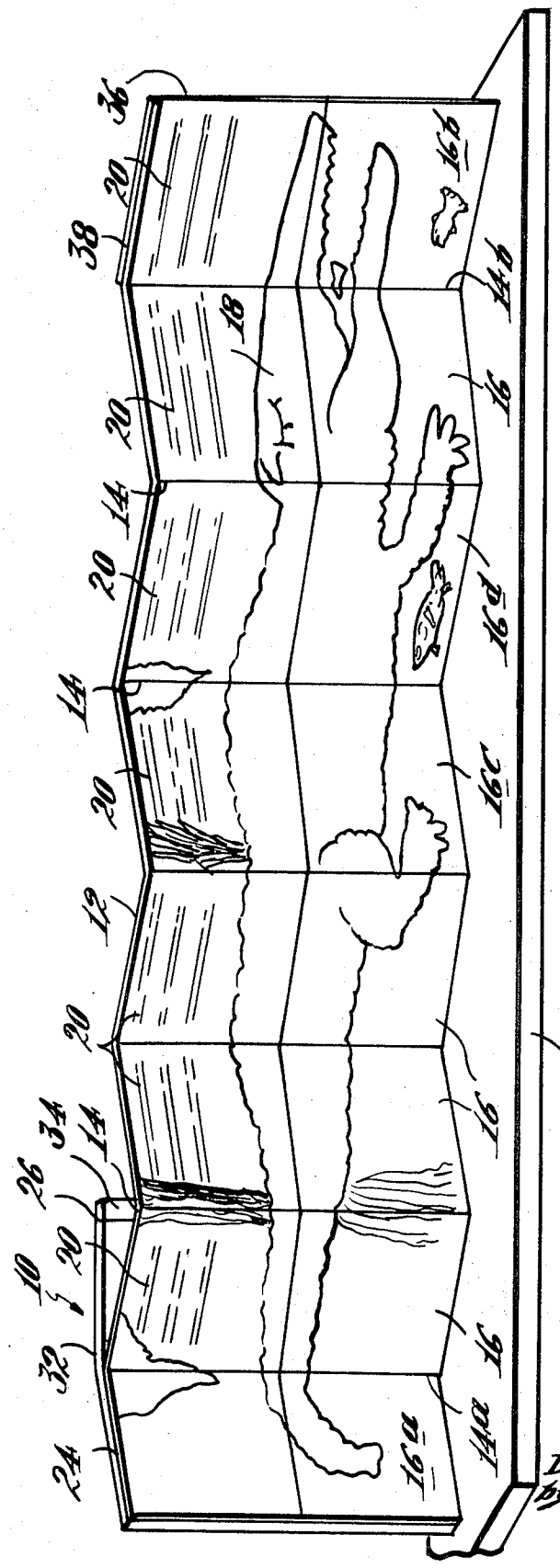


Fig. 1

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ATT'YS

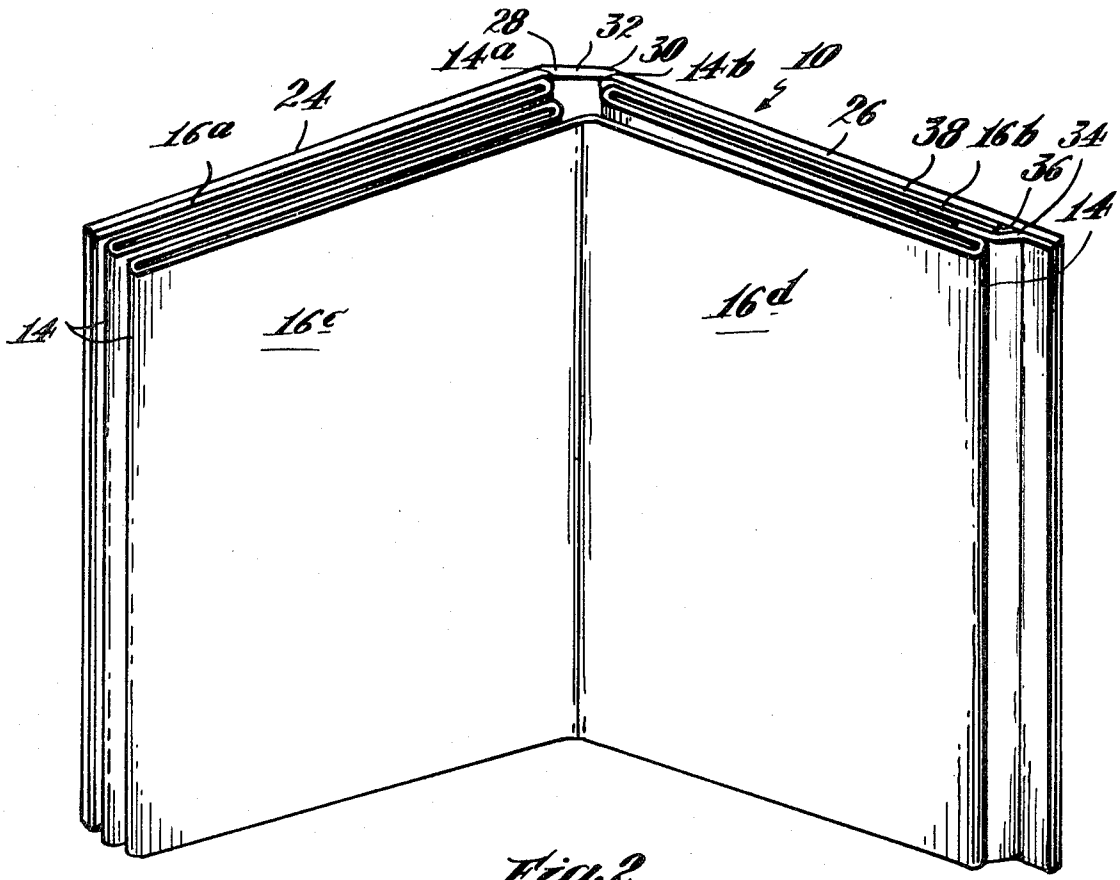

28
32
30
14a
14b
10
24
26
38
16b
34
36
14
16a
14
16c
16d

Fig. 2

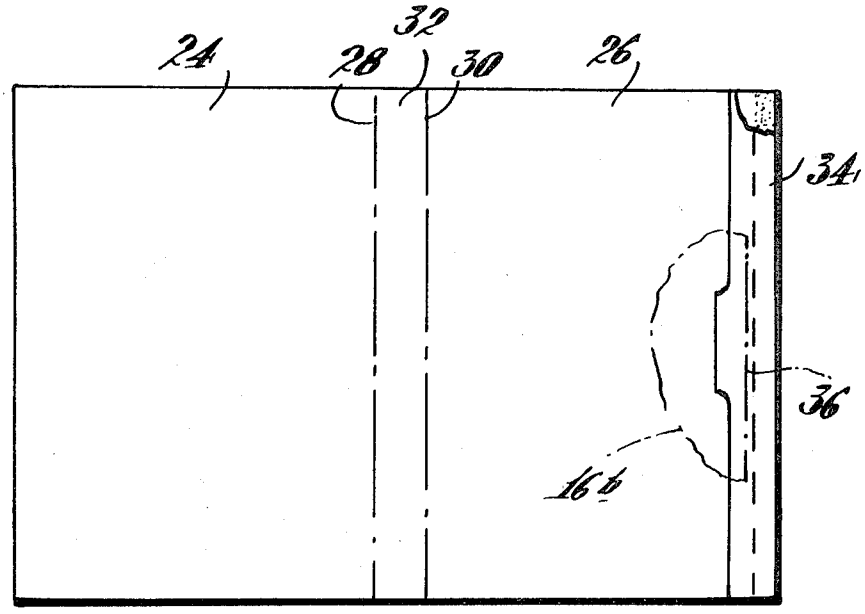

32
24
28
30
26
34
36
16b

Fig. 4

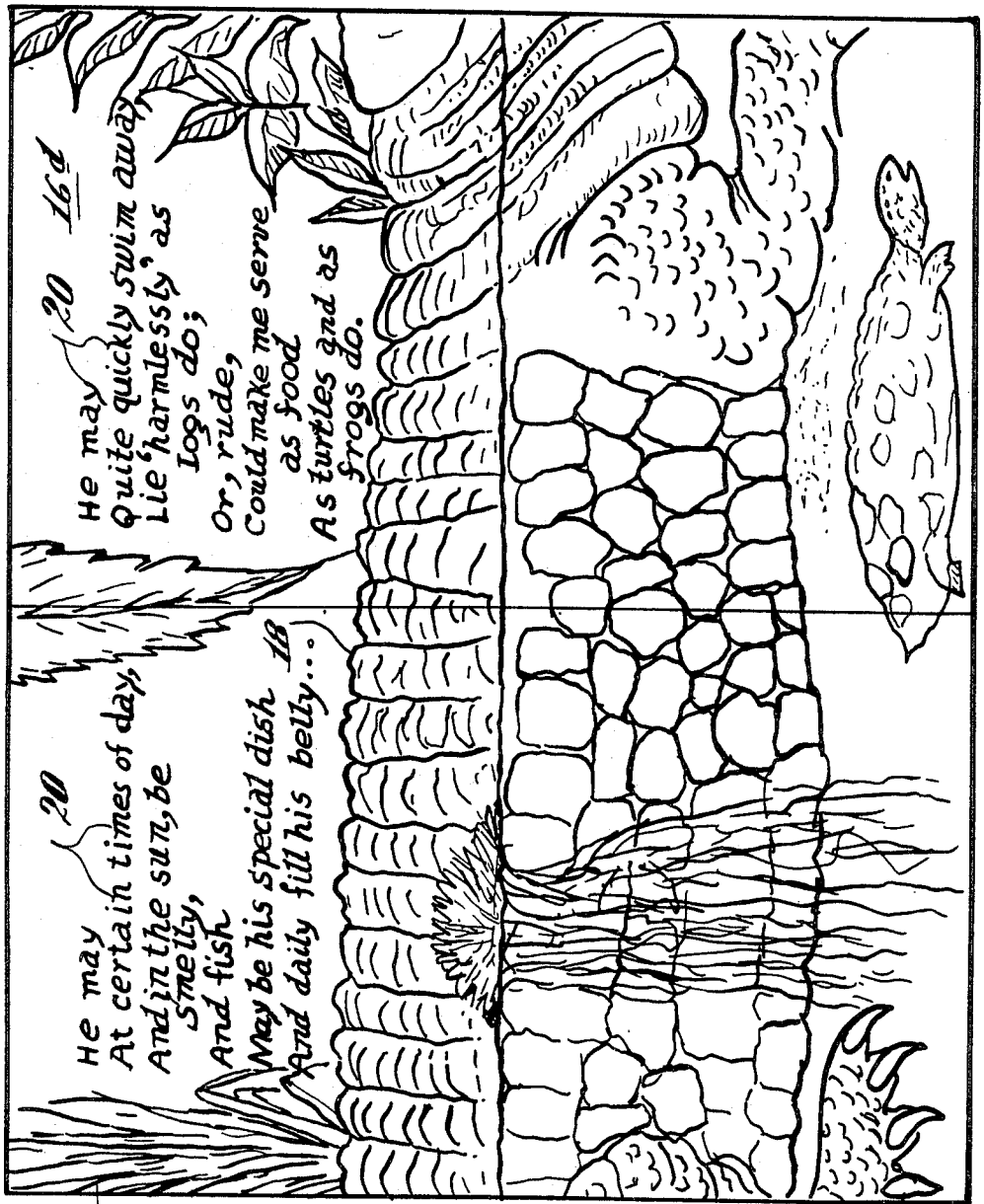

He may
At certain times of day,
And in the sun, be
Smelly,
And fish
May be his special dish
And daily fill his belly...
20
18
He may
Quite quickly swim away
Lie harmlessly as
Logs do;
Or, rude,
Could make me serve
as food
As turtles and as
frogs do.
20
16d
16c

Fig. 3

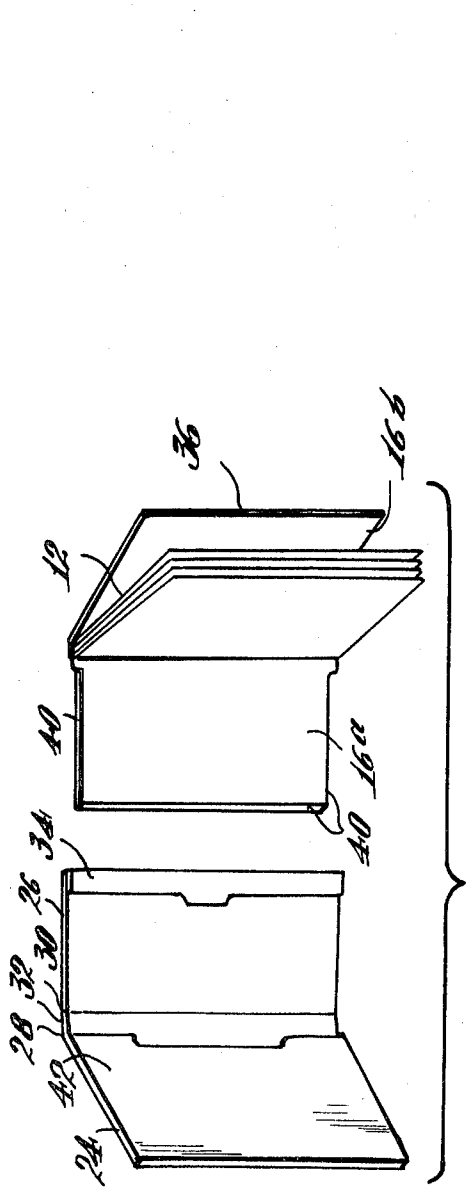

36
16b
12
40
16a
34
26
30
28
32
42
24

Fig. 5

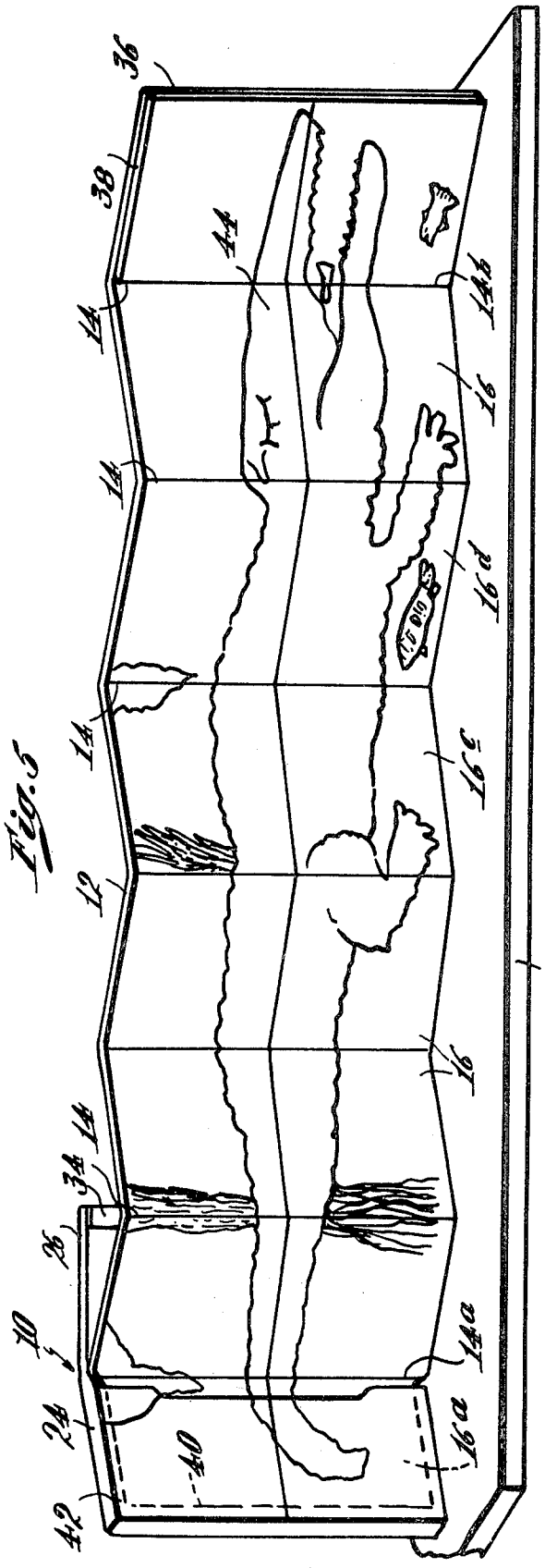

36
38
44
14b
16
14
16d
14
16c
12
16
22
34
14
26
10
14a
24
16a
40
42

Fig. 6

COMBINATIONAL BOOK FOR BOTH NORMAL READING AND PANORAMIC DISPLAY

This application is a continuation-in-part of copending parent application Ser. No. 831,616 filed June 9, 1969, now abandoned.

FIELD OF THE INVENTION

This invention generally relates to books and is more particularly directed to an accordion folded book construction. In recent years television and movies have decreased the role played by books in the amusement life of our young. While it cannot be denied that these media have educational value, this development is not without disadvantages to the education of our youth. The paramount educational shortcoming of these media is that they relate a story in a manner that requires little use of inductive reasoning or use of the written word to comprehend. The youth of today have been preconditioned to the allure of pictorial presentations at the expense of the development of language and reasoning skills developed by reading textual material.

Illustrated children's books and the like in bound form are well known. The conventional format of these books makes it difficult, if not impossible, to pictorially present the reader with a continuous and permanent panoramic illustration of the entire subject matter of the book at a single point in time. Rather, the illustrations must depict various segments of the subject matter. Such fragmentation often results in the reader's attention wandering and in his failure to comprehend the subject matter as a whole.

DESCRIPTION OF PRIOR ART

This invention is directed to a book. For purposes hereof, a book is defined as comprising many folded and bound sheets containing continuous printing or writing. As used in the preceding sentence, "bound" is to be understood to mean constrained or confined within covers.

Thus the invention is first of all a book as just defined, and more particularly a book constructed and arranged so as to have all its leaves held in place, or within the book covers when they are opened and the book is held vertically or at an angle as well as horizontal or flat, and the leaves are sequentially turned, as in the conventional or normal reading of them as a book.

Under the invention, the textual leaves are also removably held within the covers, and comprise a continuous, accordion-folded sheet having the utility, by such capacity for removal from the covers, of a free standing display, when so removed, and thereafter extended, for panoramic viewing of the matter printed on the leaves.

The invention is thus of a combination book, constructed and arranged for and having the alternative capacity both for enclosing, reversely folded ordering, and successive page turning of the leaves as a conventional book, and for withdrawn ordering, unfolded extension, and free standing set-up of the leaves for continuous viewing of the leaves and the matter printed thereon as a panoramic display.

So far as applicant is aware, no such combinational book is found in the prior art.

Thus, Michy French Pat. No. 908,004 dated 8/45 is not a book, as herein defined, but rather only a folder, of which the leaves are not bound within the covers, and could not, even if printed lengthwise of the folder strip, be manipulated and read as, and within the covers held open and upstanding as, a book.

Said Michy is not arranged or adapted either for unsupported standing of its leaves on one long unfolded margin thereof, for lengthwise reading and continuous viewing of printed matter mated and extended thereon as a panoramic display.

Whereas Michy's last leaf is inturned and unattached, the leaves of Walker U.S. Pat. No. 3,189,369 are fixedly joined first and last to the book covers, denying altogether to Walker applicant'concept of and alternative capacity for pull out extension, and free standing self-support, of the leaves for the panoramic display of the printed matter thereon. Moreover, by virtue of his peculiar fan fold construction, Walker's leaves are denied even the conventional book manipulation as under this invention, and wherein the leaves are successively turned and sequentially read while bound within the book covers and with their infolds substantially engaged against the spine of the book.

SUMMARY OF THE INVENTION

The combinational, alternatively normally readable and panoramic displayable book of the invention has a plurality of leaves flexibly or reverse hingedly secured together to form an accordion-foldable strip. The strip is preferably formed from a single elongated sheet of paper which is folded transversely of its length. Illustration matter is printed on the leaves of and to be viewed lengthwise of and also of continuously of the strip with the illustration portions on individual of said leaves being mated lengthwise with the illustration portions on adjacent of said leaves, thereby forming a integrated continuous illustration characterized as a panoramic display when the leaves are unfolded and extended to be panoramic displayable. Textual matter or material relating to the illustration matter is also lengthwise printed on various leaves of the strip. The leaves in the accordion-folded condition held within front and back covers which are in turn foldably engaged at a spine. The first leaf of the strip is secured to the inside of the front cover; the last leaf is detachably engaged to the back cover; and the proportion and arrangement of the first and last leaves relative to the front and back covers, and the construction and arrangement also of the spine or back of the book, is such as to retain the infolds of the intermediate of said leaves against, and to prevent their fallout away from, said spine, whereby said leaves may be turned and viewed held within the covers while the latter are held open and inclined as in the normal reading of the book.

The strip is preferably fabricated of a heavy grained paper with the grain of the paper running transverse to the longitudinal dimension of the strip, this enabling the strip to be unfolded, after being detached from the rear cover, and stood on one longitudinal edge thereof to form a free-standing display unit.

To reinforce the book construction when the strip is engaged to the rear cover panel, a grained reinforcing sheet may be laminated to the back of the last leaf, and oriented with its grain parallel to the longitudinal dimension of the strip. This reinforcing structure stabilizes the strip when engaged to the rear cover, as within a pocket, to facilitate reading of the book.

In a modified form of the invention, the first leaf is adapted to be received in a pocket or other means for detachably engaging that to the front cover, and the

back side of the strip is lengthwise printed with continuous text and/or illustration matter similarly as the front side of the strip.

The combinational or normally readable, panoramic displayable book hereof may first be read page by page in conventional manner. The panoramic illustration tends to hold the reader's attention by enabling him to visually identify with the characters of the text. As the story unfolds, the reader's inductive reasoning is jogged to fit the various pieces into a harmonious whole. After reading, the last leaf of the book may be detached from the back cover and the strip pulled out and extended or unfolded to form a standing display of the panoramic illustration as a dramatic and permanent reminder of the story.

The strip of the modified form of the invention may thereafter be removed from the front cover, reversed to display the matter printed on the back side of the strip, reattached to the front cover, and thereafter used as a teaching tool for creative writing and the like.

Books of this type have significant educational value, particularly for young children, by animating the textual material and by facilitating assembling the various segments of the story together to form an integral whole.

Accordingly, it is an object of this invention to provide a book construction capable of presenting related textual and panoramic pictorial matter in both book and display form.

Another object of the present invention is to provide a book construction having an elongated strip bearing a continuous panoramic illustration which is accordion folded to form a plurality of leaves, the leaves also bearing textual material relating to the panoramic illustration whereby the strip may be folded for page by page reading or may be unfolded for display of the panoramic illustration.

A further object of the invention is to provide a book construction having a plurality of leaves flexibly secured together in accordion fashion to form a strip, the strip bearing a panoramic illustration and the leaves bearing textual material relating to the panoramic illustration, a front cover to which the first leaf of the strip may be secured and a rear cover to which the last leaf of the strip may be detachably secured for either page by page reading of the leaves or for unfolding the strip for display of the panoramic illustration.

It is yet another object of the invention to provide a book insert having a wholly detachable elongated, accordion-folded strip, having on one side of its leaves a panoramic illustration and related text, and which may be printed on its other side with a substantially identical illustration or otherwise.

BRIEF DESCRIPTION OF THE DRAWINGS

These objects and other objects, features and advantages of the invention will become apparent as the description of the preferred embodiment proceeds with the aid of the accompanying drawings wherein:

FIG. **1** is a perspective view of a book constructed in accordance with the preferred embodiment of the invention with the panoramic view unfolded as a free-standing unit.

FIG. **2** is a perspective view of the book shown in FIG. **1** with the last leaf mounted to the back cover panel to form a book.

FIG. **3** is a side elevation showing in detail the pictorial and textual material shown on the leaves exposed in FIG. **2.**

FIG. **4** is an elevation of the book's covers showing the preferred form of means for detachably securing the last leaf to the back cover to form a conventional book.

FIG. **5** is an exploded view of a modified form of the invention.

FIG. **6** is a view of the back side of the strip of the modified form of the invention unfolded to form a free-standing display.

DESCRIPTION OF THE PREFERRED EMBODIMENTS

With reference to the drawings wherein like reference numerals denote corresponding elements in the several views, a book constructed in accordance with the invention is indicated generally at **10.** As shown in FIG. **1,** the book **10** has an elongated strip **12** which is flexible at a plurality of transverse folds **14** defining therebetween a plurality of flexibly joined leaves **16.** The strip **12** may be integral, in which case the means for flexibly joining the leaves **16** comprise their transverse folds **14**; or the strip may be fabricated from the individual sheets defining the leaves **16,** which sheets are flexibly joined or secured together at the folds **14** by other means, as by flexible pressure sensitized tape.

The combinational book of the invention has the leaves **16** normally reversely turned back upon themselves, or folded accordion fashion, as at the folds **14,** to be ordered as or present a layflat leaved assembly or bulk as shown, FIG. **2.**

Continuous panoramic illustration matter **18,** e.g., a crocodile, is printed longitudinally on or lengthwise of the strip **12** with the illustration portion appearing on any leaf **16** being mated with the illustration portions appearing on the leaves adjacent thereto. Textual matter or material **20** is also printed on the leaves **16** and lengthwise of the strip **12,** and so as to convey a story related to the illustration **18** when read sequentially from the first leaf **16a** to the last leaf **16*b***.

The book hereof may be fabricated in compact economic form with the use for the leaves **16** of relatively thin, lightweight paper. Under the invention, means are provided for enabling the strip **12** to be vertically stood unsupported on one longitudinal edge with the leaves **16** unfolded and extended for continuous viewing of the panoramic illustration **18.** More particularly, means are provided for stiffening the strip **12** so as to impart to the leaves **16,** when so stood vertically on one longitudinal edge, a sufficient resistance to twisting out of the vertical plane to be free standing or self supporting in that plane when unfolded and extended sufficiently to enable the panoramic illustration **18** to be continuously viewed.

In the mentioned, relatively thin, lightweight paper embodyment of the strip **12,** and whether of integral or separate sheet construction, such stiffening means may comprise the cutting or forming of the strip **12** and leaves **16** from paper sheet or sheets such that the grain of the paper is vertical, or transversely of the strip length, and paralleling its folds **14.** This transverse graining is found, again, to supply to the leaves **16** a sufficient resistance to twisting or rotating out of, in other words rolling or collapsing from, the vertical plane,

when the leaves of the book are ordered as described to be panoramic displayable.

The first leaf 16a is engaged at its back to the front cover 24 of the book and the last leaf 16*b* is detachably engaged to the back cover of the book 26. The front and back covers 24 and 26 are fabricated from stiff material, which may be plastic-laminated paperboard, and foldably engaged at 28 and 30 through means defining a book back or spine 32.

In accordance with the invention, and as just indicated, means are provided for engaging strip 12 to front cover 24 at the back of said first leaf 16a. In the illustrated embodiment, such first leaf-front cover engaging means may comprise adhesive means applied between the leaf and cover, or more particularly to the aforesaid back side of first leaf 16*a* and inside of front cover 24.

The combinational book hereof further has means for detachably engaging said last leaf 16*b* to said back cover 26. The last leaf detachably engaging means may comprise generally a pocket formed on the inside of the back cover 26, the pocket opening towards the spine of the book, and adapted to receive the right margin of last leaf 16*b*. As herein embodied, such pocket is formed by a holding tab 34 adhered to the inside of back cover 26, the tab disengaged or open at its left margin, under or into which the right margin 36 of the last leaf 16*b* is inserted.

Referring now to FIG. 2, the book 10 is shown with the strip 12 reversely or accordion folded and held in layflat leaved or book form by the holding tab 34. To strengthen the book in this form a stiffening sheet 38 may be laminated to the back of last leaf 16*b*, the grain of which stiffening sheet 38 may be normal to the grain of said last leaf 16b, so that will not bend or curl under the pressure exerted thereon by the holding tab 34, and so the holding pressure is transmitted toward the spine 32. The invention also provides to proportion and engage front leaf 16*a* relative to the front cover 24 so that its fold 14*a* is essentially coincident with, or substantially engaged to, the spine 32 at its forward fold 28; and further to proportion rear leaf 16b relative to back rear cover 26, and arrange the pocket or tab 34 thereon, so as to position the rear leaf fold 14*b* coincident with or substantially engaged to the rear spine fold 30.

The spine 32 is constructed and arranged to closely enclose the leaves 16 and inward, outfacing folds 14, when the front and back covers 24, 26 are closed, this by the approximate equalling in its width of the bulk of the folded strip when reversely or accordion-folded as shown, for reading normally as a book.

The book 10 is shown in FIG. 2 opened to expose adjacent leaves 16*c* and 16*d*. To heighten the reader's interest it is desirable to display on each adjacent set of leaves 16 a focal point or highlight in both textual and pictorial terms. In the particular leaves 16*c* and 16*d* shown in detail in FIG. 3 for illustration of this concept, the text 20 not only furthers the reader's knowledge of the overall panoramic illustration 18 (the crocodile), but also holds his attention by highlighting a particular feature of the illustration 18 appearing on the corresponding leaves 16*c* and 16*d*, as for example the turtle. This relationship of printed matter to structure relates a story in a cumulative manner as the illustration 18 is unfolded.

It will be understood that, in the normally readable book aspect and use of the invention, the leaves 16 maybe sequentially read left to right by their normal manipulation of passing of the outerfolds 14 from right to left, to present for viewing successive pairs of adjacent leaves such as the leaves 16*c*, 16*d*. Under the invention, the leaves 16 are odd-numbered, such that the last of them (16*b*) is outturned from the spine 32 towards the pocket 34, as already described. And in such normal book reading aspect, the spine 32 is seen as constructed and arranged to closely enclose the leaves 16 and the inner folds 14, or more particularly the leaf-joining means 14 that flexibly join left-to-right the odd to the even numbered of said leaves 16, when said front and back covers 24, 26 are closed.

Spine 32 further is operable, upon the opening of said front and back covers 24, 26, to retain said right and left and margins respectively of said first and last leaves 16*a*, 16*b* substantially coincident therewith, or engaged thereagainst, again as already described. By virtue of the described leaf-cover engagement, in conjunction with the leaf-cover arrangement and positioning, and together also with the book spine construction and operation as also just described, it is assured that when the book is held by its opened covers 24, 26, and in vertical and inclined as well as horizontal reading positions, all said leaves 16 will in all said positions be enabled to be turned and read as a book, while held within said covers and against fallout from said spine.

Further to the combinational, alternatively normal viewable and panoramic displayable concept and construction of the invention book, after the leaves have been sequentially read as described the last leaf 16*b*, may be pulled out of the holding tab 34, and the strip 12 unfolded or opened, or more particularly substantially fully extended, for continuous viewing and panoramic disply of the entire illustration 18, as an emphatic summary of the story, and as clearly shown, FIG. 1. The dramatic affect of this presentation of material tends to hold the reader's attention while combining the beneficial educational values of pictorial and textual presentation of the material. These values are further enhanced by the free-standing display feature of the invention whereby the reader is given a permanent and pleasant reminder of the material presented.

It should be noted that the bottom margin of strip 12 is substantially aligned with the bottom margin of front cover 24, whereby when said last leaf 16*b* is detached from back cover 26 the strip 12 may be pulled out and extended, as earlier described, with the cover 24 and strip 12 substantially coincident or continuous, in their said free-standing in the vertical plane on their said bottom margins.

A modified form of the book 10 is shown in FIGS. 5 and 6. The periphery of the first leaf 16*a* is cut at 40 as by die cutting to form an insertable tab which is adapted to be received by a cooperating pocket 42 adhered to the inside of the front cover 24. The front surface of the strip 12 bears a panoramic illustration 18 and related text 20 similar to those described in relation to FIGS. 1, 2 and 3. The reverse side of the strip 12 is also provided with lengthwise printed matter, which may comprise a panoramic illustration 44 (see FIG. 6), which illustration may be substantially identical to the illustration 18 shown on the front side.

The modified form of the book 10 has particular utility as an educational tool for teaching creative writing or as a testing device. The strip 12 may first be mounted with the first leaf 16*a* inserted in the pocket

42 and the last leaf 16*b* inserted in the tab 34 so that the text 20 may be sequentially read in conjunction with the unfolding of the illustration 18 in the normal manner as aforesaid. Thereafter the strip 12 may be removed from the cover panels 24 and 26, unfolded, reversed, and the first leaf 16*a* reinserted in the pocket 36 to form a free-standing display of the illustration 44 as shown in FIG. 6. The pocket 42 shown bears printed matter similar to that of the first leaf 16*a*. The pocket 42 may also be transparent. Or the first leaf 16a could be left blank. With this arrangement of the modified form, the student may then be asked to compse an original composition concerning the subject matter of the illustration or may be asked questions about the illustration.

Alternately, the last leaf 16*b* may be remounted to the rear cover 24 (with the folds 14 reversed) to form a book having only the illustration 44 exposed, and the student may be required to write appropriate sequential text for the pages 16 concerning both the overall panoramic illustration and the pictorial matter appearing on the particular leaves 16 exposed. This matter of usage greatly facilitates teaching inductive reasoning and language skills.

This invention of course may be utilized to present far more complicated subject matters than that chosen for purposes of illustration. For example, the presentation of various features of geography such as mountain ranges, rivers, oceanography and space, or of historical events may be effected by making an appropriate selection of the number of leaves and the pictorial and textual matter to be presented.

It should be understood therefore that this description of the invention is presented merely for illustrative purposes and that numerous modifications and equivalents will be apparent to those skilled in the art which do not depart from the scope of the appended claims.

By the foregoing description the invention hereof is shown to provide textual leaves removably held within covers. The stiffness of the last leaf, and the length of that relative to the dimensioning of the back cover between the spine and the base of the pocket thereon, are seen to combine to hold the left margin of the last leaf substantially against the spine of the book. And the construction and operation of said spine, in combination therewith, is to hold the leaves together, as against fallout from the covers, when the leaves are ordered as described for their reading normally as a book.

The combinational book of the invention is further shown to provide text printed on a continuous folded sheet removably held within covers in such manner that it can be extended for panoramic display. The leaves and cover are flush or aligned at their bottom margins, for standing erect in such display. Thus the invention book, comprising the continuous accordion folded sheet removably held within covers, has also the utility of a stable standing display, when removed and extended as hereinabove described.

I claim:

1. A normally readable, panoramic displayable book comprising

a stiff book front cover;

a stiff book back cover;

means defining a book spine,

said book spine having front and back folds,

said stiff book front cover foldably engaged at said front book spine fold,

said stiff back book cover foldably engaged at said back book spine fold;

a plurality of leaves;

means flexibly joining said leaves at a plurality of transverse folds in an elongated continuous strip,

said flexible joining means accordion folded in the normally readable condition of said book whereby in said condition and front to back said leaves extend from their front left margins alternately inwardly towards and outwardly away from said spine,

said strip combining an even number of said leaves with an odd number of said flexible joining means whereby the last of said leaves extends from its left front margin outwardly away from said spine;

means engaging said strip to said front book cover at the back of the first of said strip leaves;

means detachably engaging said last of said strip leaves to said back cover of said book,

the proportioning of said first and last strip leaves, and the engaging of them to said front and back book covers, being such as to position their respective right and left margins substantially against said spine;

said spine approximately equalling in its front-to-back fold width the accordion folded bulk between said front and back book covers of said strip leaves and the leaf joining means that are flexibly joining left to right the odd to the even numbered of said strip leaves,

said spine operable to retain said right and left hand margins respectively of said first and last strip leaves substantially engaged thereaginast upon the opening of said front and back book covers,

whereby, when said book is held by said opened covers in vertical and inclined as well as horizontal reading positions, all said strip leaves will in all said positions be enabled to be turned and read as a book while held within said covers and against fallout from said spine;

the bottom margin of said strip substantially aligned with the bottom margin of said front cover whereby when said last of said strip leaves is detached from said back cover said strip may be pulled out and extended with said cover and strip free-standing on their said bottom margins in the vertical of said reading positions;

continuous text and illustration matter printed on the fronts of said strip leaves, said text matter arranged lengthwise of said strip and to be read sequentially from one to the next of said leaves, said illustration matter continuous across the length of said strip with the illustration portion on each leaf mated with the illustration portions on the leaves adjacent thereto; and

means stiffening said strip so as to impart to said leaves a sufficient resistance to twisting out of plane to stand unsupported when said strip is pulled out of said covers and extended sufficiently to order said leaves to present at their front sides a continuously viewable, panoramic display of said lengthwise-printed, adjacent-leaf-mated, text and illustration matter.

2. The book construction of claim **1** in which: said strip comprises an integral elongated sheet of grained

paper; said leaves comprise lengths of said strip joined at transverse folds of said integral sheet; said means flexibly joining said leaves comprise said transverse folds of said sheet; and said stiffening means comprise the orienting of said sheet transverse to the length of said strip and parallel to said folds.

3. The book construction of claim **2** which further includes a grained stiffening sheet secured to the back of said last leaf, the grain of said stiffening sheet being normal to the grain of said last leaf, thereby strengthening said folded strip when engaged to said rear cover for sequential reading of said leaves as a book.

4. The book construction of claim **1** in which said detachably engaging means comprises a pocket formed on the inside of said back cover and opening toward said spine, said pocket receiving the right margin of said last leaf.

5. The book construction of claim **4** in which said first leaf is secured to the inside of said front cover so that the first leaf fold is aligned with the front fold of said spine, and in which said pocket is adapted to hold said last leaf with the last leaf fold in alignment with the back fold of said spine.

6. The book construction of claim **1** in which said first leaf is fixedly engaged to the inside of said front cover.

7. The book construction of claim **1** wherein said front cover-first leaf engaging means comprise means for detachably engaging the same, and continuous text and/or illustration matter lengthwise printed on the back side of said strip.

8. The book construction of claim **7** in which said first leaf detachably engaging means comprises a pocket formed on the inside of said front cover and opening toward said spine, said pocket receiving the left margin of said first leaf.

9. The book construction of claim **6**, in which said means engaging said strip to said front cover comprise adhesive means applied to the back of said first leaf and to the inside of said front cover.

* * * * *