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3,061,946

DRAWING APPLIANCE FOR PRODUCING ORNAMENTAL DESIGNS

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2 Sheets-Sheet 1

FIG. 1.

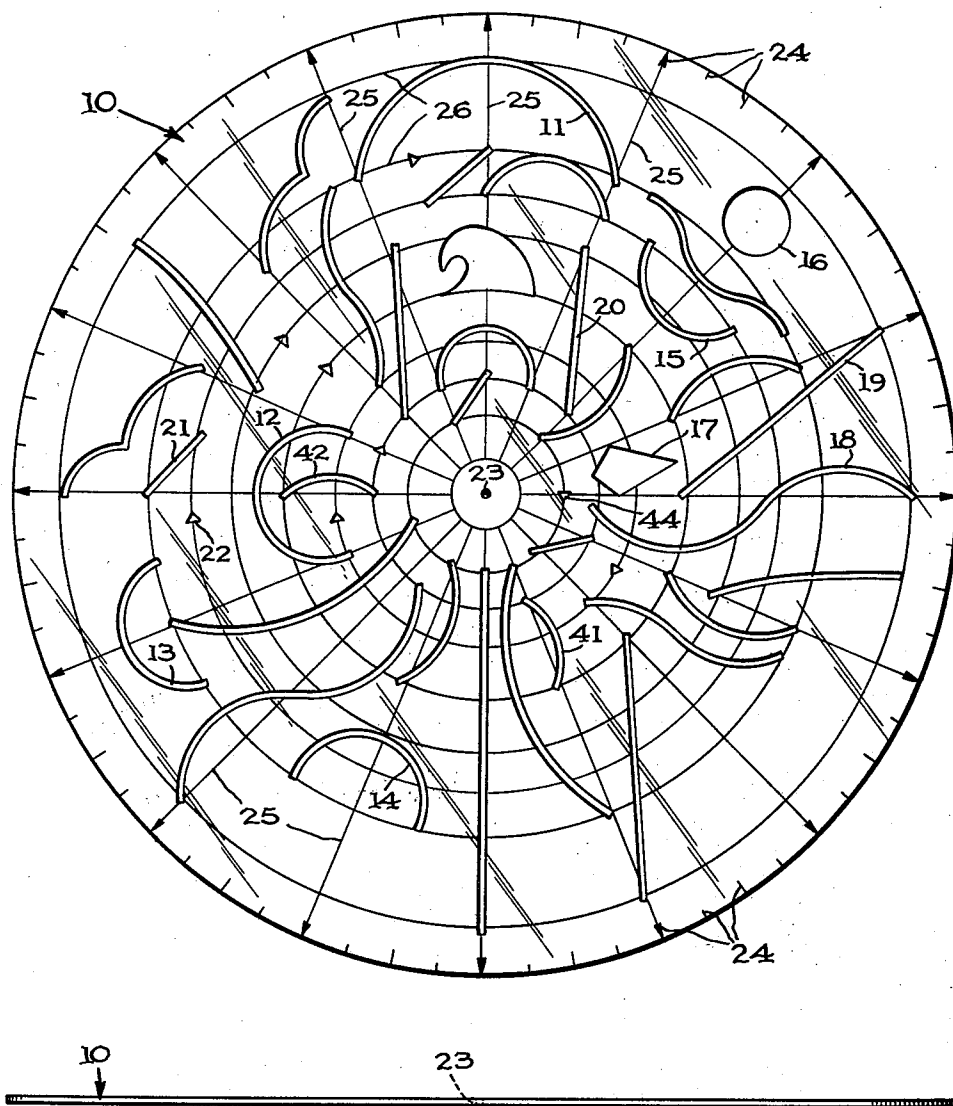


FIG. 2.

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FIG. 3.

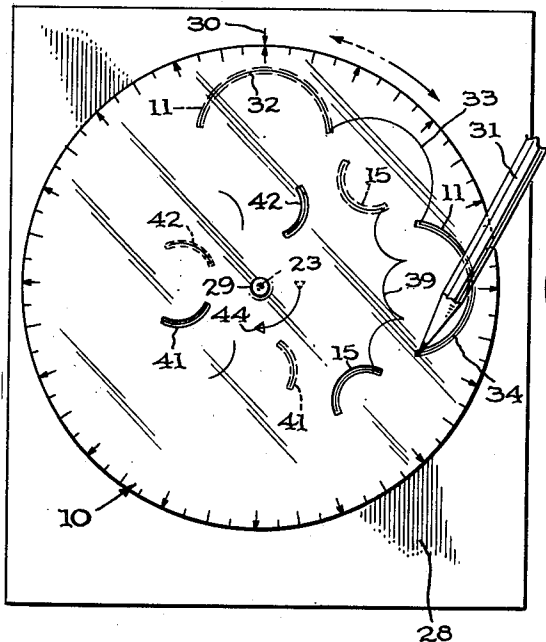


FIG. 4.

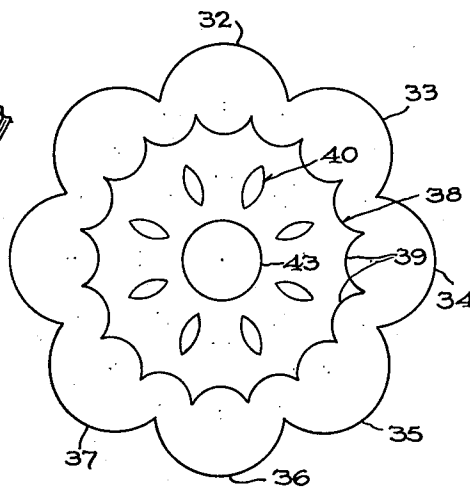


FIG. 5.

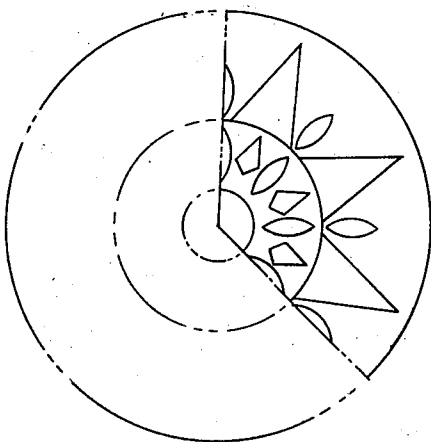
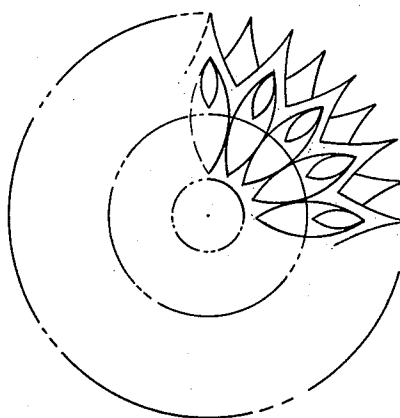


FIG. 6.



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DRAWING APPLIANCE FOR PRODUCING ORNAMENTAL DESIGNS

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3 Claims. (Cl. 35—26)

This invention relates broadly to drawing appliances and more particularly to an appliance for producing ornamental designs on paper or the like.

An object of the invention is to provide a drawing appliance of the above-mentioned character in the nature of a template which may be employed by professional draftsmen for producing designs or by children or adults for amusement and/or educational purposes, such as occupational therapy in certain schools and hospitals.

Another object is to provide an appliance of the mentioned type which may be used for drawing an almost infinite number of ornamental designs which are symmetrical and uniform without the use of guesswork and requiring very little skill to operate.

Other objects and advantages of the invention will become apparent during the course of the following description.

In the accompanying drawings forming a part of this application and in which like numerals are employed to designate like parts throughout the same,

FIGURE 1 is a plan view of a design producing appliance or template according to the invention,

FIGURE 2 is an edge elevation of the same,

FIGURE 3 is a partly diagrammatic plan view on a reduced scale of the appliance illustrating the use of the same for producing a design on paper or the like,

FIGURE 4 is a plan view of the design produced by the appliance in accordance with FIGURE 3,

FIGURES 5 and 6 are fragmentary plan views similar to FIGURE 4 showing additional designs typical of many which may be produced by the appliance.

In the drawings, wherein for the purpose of illustration is shown a preferred embodiment of the invention, the numeral 10 designates the design producing appliance or template in its entirety, the same being formed from a circular section of preferably transparent or semi-transparent sheet plastics material, Celluloid or the like. The template 10 is flat and preferably substantially stiff in a manner similar to other drafting implements such as triangles, French curves and the like. The template 10 can, if preferred, be formed from material which is opaque, but it can be used more efficiently if transparent or semi-transparent.

The template 10 is provided over the major portion of its area with a multiplicity of openings or cut-outs of various regular geometrical, curved and irregular configurations. The shapes of these cut-outs and their number and arrangement may be varied almost endlessly, and the specific shapes and spaced arrangement of the cut-outs shown are illustrative only and may be varied within the scope of the invention. For example, the cut-outs may include arcuate cut-outs or slots 11, 12, 13, 14, 15, etc. of varying size and length and disposed upon the template in a definite relationship to the center of the same, the periphery of the template and circumferentially thereof as will be further described. Other cut-outs of the template may be circular at 16, diamond-shaped at 17, reversely curved at 18, straight slots at 19, 20 and 21, as well as small openings 22 at various points on the template for producing concentric circles and the like around the center 23 of the template, which is defined by a small pin opening to receive a thumbtack or the like, whereby the template 10 may be placed over a sheet of paper or the like on a table or drafting board and revolved about its center 23 during the mak-

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ing of a given design in step-by-step increments as will be described further hereinafter.

The template 10 is provided at its peripheral edge with a visible graduated scale extending circumferentially thereof and having a multiplicity of circumferentially equidistantly spaced scale markings 24 as indicated. These scale markings are useful in producing the various designs efficiently and with perfect symmetry inside of the circular confines of the template. The numerous cut-outs or openings of the template shown in FIGURE 1 and above-described bear a relation to the circumferential scale markings 24 and visible radial scribe lines 25 which may be provided upon the face of the template, radiating from its center in circumferentially equidistantly spaced relation, FIGURE 1. That is to say, considering the arcuate design slot 11, for example, the same spans the circumferential distance between three of the radial lines 25, and the slot 11 is disposed near and inwardly of the periphery of the template and between an outer pair of visible concentric circular guide lines 26 and 27 which may be delineated upon the template 10 to further aid in using the same as shown in FIGURE 1. Additional concentric circular visible guide lines are preferably provided inwardly of the lines 26 as shown in FIGURE 1.

With reference to FIGURE 3, the appliance is used in the following manner to produce a design on a sheet of paper 28 or the like, the completed design being shown in FIGURE 4. In FIGURE 3, the template 10 is placed upon the paper sheet 28 and pinned thereto pivotally by a thumbtack 29 or the like at the central opening 23 so that the template may be rotated relative to the paper. The paper is preferably secured to the table or drafting board with additional tacks, adhesive tape or the like so that it will remain stationary.

In beginning the design shown in FIGURE 4, by utilizing the arcuate slot 11 of the template, the draftsman preferably makes an index line or mark 30 upon the paper 28 adjacent the scribe line 25 which bisects the slot 11. A pencil 31 or the like is placed in the arcuate slot 25 and guided along the same to produce upon the paper a first arcuate pencil line 32 at the start of the design shown in FIGURE 4. The template 10 is then turned in the direction of the arrow, FIGURE 3, until the second trailing radial scribe line 25 moves adjacent the fixed index mark 30, and the pencil is again utilized in the template slot 11 to produce the second symmetrically arranged arcuate line 33 of the design shown in FIGURE 4 on the paper 28. The template 10 is now turned step-by-step by the draftsman in the same angular increments with reference to the fixed index mark 30 so that additional arcuate lines 34, 35, 36, 37, etc. may be produced upon the paper 28 until one circumferential segment or portion of the design shown in FIGURE 4 is completed in a uniform and symmetrical manner relative to the center and periphery of the template 10.

Next, the pencil 31 is utilized in the identical manner with the slot 15 of the template and with relation to the fixed index mark 30 and radial scribe lines 25 to produce the next circumferential segment 38 of the design shown in FIGURE 4, consisting of a regular series of arcuate lines 39 produced in the manner described. In similar manner, the next innermost segment 40 of the design shown in FIGURE 4 is produced by utilizing another of the arcuate slots 41 of the template and a companion or reversely curved arcuate slot 42 in a manner which should now be obvious to anyone skilled in the art. The center circle 43 of the design shown in FIGURE 4 is made by placing the pencil point within the small opening 44 of the template and turning the latter about its center.

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It should now be apparent that the template may be utilized to produce an almost endless series of designs on paper or the like, efficiently and with uniformity and without great skill. Variations of the possible designs are shown in part in FIGURES 5 and 6, and these are merely illustrations of the numerous designs which can be made with the template. The graduated scale on the periphery of the template in connection with the index mark 30 allows the draftsman to rapidly build the design by merely shifting the proper radial scribe line 25 into registration with the mark 30 as the lay out of the design progresses. The device is educational and amusing to children and adults and it may also be useful to architects and draftsmen for designing ornamentation for various purposes. The use of the device takes guesswork out of designing and allows beautiful designs to be produced rapidly as needed.

It is to be understood that the form of the invention herewith shown and described is to be taken as a preferred example of the same, and that various changes in the shape, size and arrangement of parts may be resorted to, without departing from the spirit of the invention or the scope of the subjoined claims.

Having thus described my invention, I claim:

1. An appliance for producing ornamental designs upon a flat surface with symmetry and uniformity and without the need for skill comprising a substantially flat template having a central opening to receive a pivot element so that the template may be turned about its center, said template having a visible index scale marked thereon a substantial distance radially outwardly of the center of the template and including circumferential scale graduations, said template having a multiplicity of cut-outs of various geometrical, straight line, regularly and irregularly curved shapes adapted to receive a pencil point or the like for inscribing on a flat surface a design line of like shape, said cut-outs being oriented radially to the center of the template and circumferentially to said scale.

2. An appliance for producing varied ornamental de-

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signs upon a surface comprising a substantially flat circular disc-like template formed of at least partially transparent material and having a central opening to receive a pivot element, whereby the template may be turned, said template having a plurality of circumferentially equidistantly spaced visible radial lines and visible scale graduations adjacent its periphery, said template provided over the major portion of its area with a multiplicity of design cut-outs of varying regular and irregular shapes and positioned in a predetermined manner with respect to said radial lines and scale graduations, whereby the template may be indexed circumferentially from a fixed reference point to produce a symmetrical and uniform design within the circular confines of the template.

3. A drawing appliance of the character described comprising a substantially flat template formed of material which is at least partially transparent and having a central pivot opening to receive a thumbtack or the like and radiating visible guide lines which are spaced circumferentially equidistantly, said template having a multiplicity of separately formed spaced openings of individual size and shape formed therethrough and positioned in a predetermined pattern relative to said central opening and guide lines, whereby an ornamental symmetrical design may be produced on a flat surface with a pencil or the like by providing a fixed reference mark at one of the guide lines and repeatedly indexing the template circumferentially and inscribing a line on said flat surface at each point of indexing conforming to the shape of said openings.

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