





## Butterflies Are Free

*MATERIALS NEEDED: Glues, Wilhold's Glu-Bird for applying braids, 5-Minute Epoxy for cementing metal pieces....Paints, White acrylic and assorted colors Pearlized...Finishes, GlosSeal, Glostique (gloss), Pearl Powder, Brush-on Matte Seal (water soluble)...Paint brushes...Dremel Moto Tool equipped with diamond wheel or carborundum disc...Drill bit or cone-shaped burr....2-lb Test nylon fishing line...Vaseline...Sandpaper for cleaning inner shell...Tweezers...Round-nose plier...Wire Cutter...Egg Marker...All components as outlined within instruction and any other materials normally used in Egg Decor....*

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*A double-yolk goose egg, measuring  $11\frac{1}{2}$ " around in length and  $8\frac{1}{2}$ " around in width, was used in original design...One of comparable size is recommended for duplication of same...*

*Divide egg lengthwise into 4 equal segments...Four parallel lines, 2 on either side of each divider line will be determined and drawn, after which 3 lines will be established around bottom (rounded end) of shell, fig.1...*

*Using permanent marking pen, draw over lines in dotted fashion, fig.2... Mark center top and bottom points and then scrub shell clean of all pencil markings.*

*Drill opening at center top of shell equivalent to  $1/16$ ", and one at bottom of shell equal to  $3/32$ "...Top opening will remain apparant throughout all stages of work on this design, even after application of trims...*

*Preloosened hinges [A] will be affixed along line [x] with raised center of hinge positioned directly over this line...Hinges will lie within center of each quartered segment of shell...Therefore, line[x] will be cut through completely at those places where hinges are to be secured...Remaining portions of line[x] will not be cut through in entirety at this time...*

*Hinges will be applied upon shell surface, one at a time...A thin bead of vaseline, applied to underside of hinge knuckle, will insure that glue does not work itself into center workings of hinge...Make certain hinge knuckle rests directly over slice in line[x]...Use permixed epoxy glue to insure a permanent bond...All 4 hinges are to be applied in like manner...*

*If outer surfaces of shell are clean and stain-free, it will not be necessary to paint the 4 areas of shell which lie inbetween lines[a,d,z]...Otherwise, do paint these wedges of shell with white acrylic paint...A medium sponge brush may be used to apply same sparingly...Allow paint to dry completely...These 4 areas of shell will now have 3 or 4 coats of GlosSeal applied to same, allowing for adequate drying time inbetween...*

*Five or 6 coats of Glostique gloss finish will next be added to these sealed areas of shell...Apply this medium with a soft bristle brush.... Allow for ample drying time inbetween coats....*

*At this same time, filigree butterflies[B] may be treated prior to being painted...Pinch butterfly wings somewhat closer together...Hold outer edge of fili-*

gree with curved tweezer or retriever clamp...Dip entire piece in Glostique solution; lift out and shake off excess; hold for a moment or 2; and then lay butterfly on a piece of waxed paper or plastic material...Do likewise to all 5 pieces and when Glostique has hardened, repeat dipping process once again...Glostique should fill-in all filigree openings with a glass-like appearance...If any of these openings still remain open, apply more Glostique from tip of brush to unaffected areas until butterfly is one solid unit...

Butterfly, when completely dry, will be painted with assorted colors of pearlized paint...Paint will be applied to underside of wings, staining the glass-like covered openings only...Outer rows of openings on wings will be painted one color while second row will be painted another...Remaining openings will be painted with white pearl paint...All 5 butterflies should be painted with individuality for added interest and color excitement...Blues and greens may be combined, as may pinks, reds and purples...Nature knows of no limitations so be creative in coloring your butterflies...When completed, they will appear as cloisonne pieces...

Glostique-coated shell areas will now have irridescent pearl powder added and buffed with soft cloth or paper toweling...A final coat of Glostique will be brushed over same with milk-glass-like appearance becoming end result...

While this last coat of finish is drying, parts [C,D,E,F] will be glued together, figs.3. Make certain tubing [C] is erect and at right angle to base plate [D], lip of tube affixed immediately below center of base plate...Center opening of tube must remain free of any glue...

Area of shell which falls within lines [a,b] and [y,z] will now be cut out, as in fig.4., (shaded portion)...

A double row of narrow, flat antique braid [G] will be applied to cut edge of shell, lines [b and y]...Three rows of bright gold Jap Silk #3 [H], applied immediately next to one another will be added next, followed by 2 rows of antique gold cording [I]...Miter ends and corners of braid...

Leafy findings [J,K] will now be affixed as in fig.5, using 5-Minute epoxy as adhesive agent...Use the minimum of glue for neatness' sake...Narrow strip of egg shell which lies between lines [c,d] will now be cut free from rest of shell, after which braid trims will be added along cut edge of shell [line c] in same manner as along line [b]...Remainder of leafy findings [J,K] will be affixed, fig.6., once again using 5-Minute Epoxy...

C-shaped findings [L] will next be added as in fig.7...These pieces will be used as one complete finding, uncut, as well as in multiple pieces, cut in half... Small heart-shaped findings [M] will also be cut in half and applied to design as in fig.8...

Approximately 40" of antique cording [I] will be painted white, using same paint as on outer shell surfaces, and allowed to dry...All four doors of egg will then be cut open, one at a time...A row of white-painted cording will be affixed along all cut edges immediately adjacent to row of unpainted cording which preceded same...When doors are closed once again, center top of shell must have small opening still apparant, fig.9....

Inner shell surfaces will be cleaned free of any loosened membrane and then painted white...At the same time, undersides of leafy findings [J,K] will also be painted with same white acrylic paint...If more than one coat is needed to remove all traces of gold on these pieces, allow each coat of paint to dry thoroughly before adding another...Be neat...Do not allow paint to become apparant on outer sides of findings...Finally, when satisfied with effect, and paint is completely dry,



seal white painted surfaces with a brush-on matte sealer...

Apply one row of antique gold cording along cut edge of bottom segment of shell... Do not cover hinge flap with same... Touching rows of this cord and painted cord above (bottom cut edge of doors), should fit nicely together when all 4 doors are in closed position... They must not, however, impair the workings of these doors...

Multiple rows of antique cording will then be affixed around bottom segment of shell until all that remains is center-bottom opening...

Secure all doors in a closed position... A piece of string can be used to tie doors shut... Mix a portion of epoxy and then cement egg upon preassembled base plate/tubing unit, length of tube extending up within bottom of shell... A piece of 1/16" brass rod could be used to insure erect attitude of egg upon base by passing same down through opening atop egg and down into length of tubing below...

When glue has set, untie doors and allow them to rest in an open position... Large cap filigree[N], which has had its center opening stretched to accommodate tube[C], and ridged bead[O] will be glued in place, fig.10... Remember to keep inner tube surfaces free if any adhesive... Retie doors in closed position...

Four gold-plated columns[P] will have smaller gold beads[Q], which also have had center openings stretched somewhat, passed onto both ends of same, fig.11... These beads will fit snugly upon posts for most effective results... Mix a portion of epoxy and proceed to cement gold columns into predrilled holes of 2" square onyx block[R]... Apply glue to one end only of each post... Place this end down into one of the onyx holes and secure lower bead down against top of onyx block... When all 4 columns and beads are placed thusly, and before the glue has set-up completely, place egg unit atop posts with all 4 columns extending up through the predrilled holes in base plate, fig.12... These drilled openings are to coincide with openings in onyx below... Base plate will not be glued in place immediately... Wait until glue at bottom of columns has hardened first... (By positioning egg upon posts as suggested, one is assuring that these columns will become affixed in an upright and correct manner)...

Adjust egg/findings unit so that it is erect atop the 4 columns... Cement upper post beads immediately below base plate, thus securing bead, base-plate and column to one another... Bottom of base-plate will be approximately 5 $\frac{1}{4}$ " above top of onyx block...

A fifth bead[Q] will be glued atop tube[S] with eyelet[T] secured within length of same extending down within hollow tube and lip affixed atop center opening of bead, fig.13...

Slide round ridged bead[U] onto length of tube[S], followed by 3 washers[V]... Maintain 3 doors on egg in a closed position and allow one to rest in an open position... Place newly formed bead/tube unit within cavity of shell... Determine correct position of same... End of tube with bead and eyelet attached will be nestled immediately below topmost point of doors and centered within same... Washers will rest atop larger bead[O], while rounded bead above will be permanently attached to tube, fig.14... Epoxy can be placed atop rounded bead and onto tube itself... Bead will then be lifted up-and-down slightly to insure a good bond... Washers will remain free and unglued to insure a smooth turning motion of tube within tube...

Three more washers will now be placed upon underside of tube which is exposed below base-plate, after which bead[W] will be placed and affixed permanently, and then another round bead[U] cemented in place, fig's.15... Before actually gluing these last 2 beads in place, check to make certain length of tube will not be apparant below this last bead... If appreciable length of tube should be

seen, remove tube unit and cut off excess tube, using tubing cutter or clamp-and-saw...When finally affixing lower beads, remember to keep washers free and uninhibited, and to keep inner tube surfaces open and free of glue...

Maintain all 4 doors once again in a closed position...Lip of eyelst atop bead-tube unit will be seen immediately below center opening, topmost point of doors... Affix one upeye[X] per door at the very topmost point of each door...Attach one length of nylon thread, approximately 15" long, to upeye, and then pass length of thread down through eyelet and out bottom of bead/tube unit below base-plate...Do likewise upon all 4 doors...

Glue the four ends of nylon together and cut off any uneven threads...Feed these fused ends through small gold bead [Y/1], 18mm bead[Y/2], and another small gold bead[Y]...Ends of nylon will then be passed up through 18mm CAB bead once again, as will they be through the first gold bead...Beads will rest at bottom of design, immediately above top of onyx...Strings will be taut and even, and the bead/nylon unit will appear as a plumb bob below egg, fig.16...Excess strings will be tied and cut off immediately above first small bead...Doors will now stay closed by means of these nylon strings...To open doors, elevate bead unit...To close doors, lower bead unit...

Leafy findings[Z/1] & [Z/2] will be shaped with round-nose pliers and added to tube post within egg, using 4 pieces of the longer finding and 2 pieces of the shorter finding as ornamentation...Shape each piece, one-at-a-time, and add to post in same manner, fig.17...Add a leaf spray and turn post, add another, and so on...At the same time, remember to close doors to make certain leafy arrangement will not interfere with same...When satisfied with effect, paint all gold beads, caps, leaves, post, etc., within shell with same white paint as used on underside of door findings...When all evidence of gold finish is no longer apparant, and white paint is completely dry, seal surfaces with brush-on matte finish...Three painted butterflies will be nestled upon these treated leaf sprays in random manner, once again making certain they do not interfere with doors...

One large leaf finding will be shaped and affixed to upper post as in fig.18.. A butterfly will then be added, fig.19...Three smaller leaf findings will be shaped and affixed around bottom of one post, fig.20., after which the last painted butterfly will be placed, fig.21...No-hole pearls[B/2] will be glued within center of butterflies, thus completing designer egg, BUTTERFLIES ARE FREE..

