CARVEWRIGHT™ WOODWORKING SYSTEM

PROJECT BASIC DIFFICULTY

PROJECT TUTORIAL

Wooden Faucet Wall Planter

Designed for CarveWright™ by Michael Tyler - www.carvebuddy.com

The faucet on this project looks almost real but it is pure wood, carved with your CarveWright machine!

This wall planter is sure to add a touch of charm to your space, with it's clean design allowing the wooden faucet to be featured as the main focal point. The integrated box container can be filled with anything you like, but "seasonal-themed" silk plants or flowers to match your indoor seasonal decor can be a great start.

The overall dimensions are 7.125" wide x 7.25" deep x 16.75" tall.

Main items you will need:

1) The Project Files (included):
- Spigot.mpc
- Back_Panel_and_Parts.mpc
- Box_Side_Panels.mpc
- Box_Front-and-Bottom.mpc

2) Boards with the following dimensions:

Spigot:	0.75"x 11"x 13"
Back Panel and Parts:	0.75"x 11"x 24"
Box Side Panels:	0.75"x 9"x 21"
Box Front and Bottom:	0.75"x 7"x 21"

Do not use boards that are smaller than specified above unless using an appropriate jig.

3) 0.125"dowels, sandpaper, clamps, wood glue, epoxy, stain and/or paint and clear finish

4) A Dremel-type rotary tool with assorted sanding wheels and bits to sand small details and speed up preparation for finishing.

STEP 1
Start the Designer software and open the .mpc file. (fig. 1a)

Spigot.mpc
BEST: 1hr. 32 min.
OPTIMAL: 2hr. 20 min.

Back_Panel_and_Parts.mpc
BEST: 1hr. 57 min.
OPTIMAL: 3hr. 8 min.

Box_Side_Panels.mpc
BEST: 1hr. 3 min. or OPTIMAL: 2hr. 4 min.

Box_Front_and_Bottom.mpc
BEST: 14 min. or OPTIMAL: 17 min.

fig. 1a

Upload the project files to your memory card. (File/Upload). During upload, you may or may not see a pop-up window with an "Auto-Jig" warning message (and/or a Zero Carve region message). (fig. 1b)

fig. 1b

If you do see the messages, you may safely click on "Ignore" because the actual board will be large enough and any Zero Carve Regions are intentional. After the project is compiled, select BEST or OPTIMAL File Quality setting when uploading the .mpc project file to your memory card.

Insert the card into your machine and load a board that measures the appropriate dimension specified for the particular mpc (see page 1 for board dimensions). Turn on your machine and proceed with the project setup in Step 2...

STEP 2 - Running the MPC Files
You will see "Project Menu" on your LCD display. Press "1", scroll to the **Spigot.mpc** project, and press the green ENTER button. Follow the additional prompts closely....

- **Stay Under Rollers** - press 1) YES

- **DO NOT RESIZE or SCALE the projects!** If prompted, always **Keep the Original Size**. No scaling!

- **How to Place...** - press 1) Center

- **Cut Board to Size?** - press 2) NO

- **Select Carving Bit: 1/16" Carving** - Press ENTER. The machine will move the bit holder to the center.

- **Load Bit: 1/16" Carving** -Insert your 1/16" carving bit, then press the green ENTER button. After homing and finding surface, the machine will begin the carving process.

When the machine is finished, remove your board and clean your machine of excess sawdust. Your board will look something like this (fig. 2a)

fig. 2a **Spigot.mpc**

(cont.)

STEP 2 - Running the MPC Files (cont.)
You will see "Project Menu" on your LCD display. Press "1", scroll to the **Back_Panel_and_Parts.mpc** project, and press the green ENTER button. Follow the additional prompts closely....

• **Stay Under Rollers** - press 1) YES

• **DO NOT RESIZE or SCALE the projects!** If prompted, always **Keep the Original Size**. No scaling!

• **How to Place...** - press 1) Center

• **Cut Board to Size?** - press 2) NO

• **Select Drill Bit: 1/8" Cutting** - Press ENTER. The machine will move the bit holder to the center.

• **Load Bit:1/8" Cutting** -Insert your 1/8" cutting bit, then press the green ENTER button. (homes, etc.)

• **Select Vector Bit: 1/8" Cutting** - Just press ENTER. The bit is already installed

• **Select Cutting Bit: 1/8" Cutting** - Just press ENTER. The bit is already installed

• **Select Carving Bit: 1/16" Carving** - Press ENTER. The machine will move the bit holder to the center.

• **Load Bit: 1/16" Carving** - Remove the 1/8" cutting bit, and insert your 1/16" carving bit, then press the green ENTER button. After homing and finding surface, the machine will begin the carving process.

• **After it is done carving, you will be prompted to load your 1/8" cutting bit.** Take out the 1/16" carving bit and insert your 1/8" cutting bit. Press the green ENTER button. The machine will perform the drills, vector cuts and part cutouts as it moves around the component outlines. Your board will look something like this (fig. 2b)

fig. 2b Back_Panel_and_Parts.mpc

STEP 2 - Running the MPC Files (cont.)
You will see "Project Menu" on your LCD display. Press "1", scroll to the **Box_Side_Panels.mpc** project, and press the green ENTER button. Follow the additional prompts closely....

• **Stay Under Rollers** - press 1) YES

• **DO NOT RESIZE or SCALE the projects!** If prompted, always **Keep the Original Size**. No scaling!

• **How to Place...** - press 1) Center

• **Cut Board to Size?** - press 2) NO

• **Select Vector Bit: 1/8" Cutting** - Press ENTER. The machine will move the bit holder to the center.

• **Load Bit:1/8" Cutting** -Insert your 1/8" cutting bit, then press the green ENTER button. (homes, etc.)

• **Select Drill Bit: 1/8" Cutting** - Just press ENTER. The bit is already installed

• **Select Cutting Bit: 1/8" Cutting** - Just press ENTER. The bit is already installed

• **Select Carving Bit: 1/16" Carving** - Press ENTER. The machine will move the bit holder to the center.

• **Load Bit: 1/16" Carving** - Remove the 1/8" cutting bit, and insert your 1/16" carving bit, then press the green ENTER button. After homing and finding surface, the machine will begin the carving process.

• **After it is done carving, you will be prompted to load your 1/8" cutting bit.** Take out the 1/16" carving bit and insert your 1/8" cutting bit. Press the green ENTER button. The machine will perform the drills, vector cuts and part cutouts as it moves around the component outlines. Your board will look something like this (fig. 2c)

fig. 2c Box_Side_Panels.mpc

(cont.)

STEP 2 - Running the MPC Files (cont.)
You will see "Project Menu" on your LCD display. Press "1", scroll to the **Box_Front-and-Bottom.mpc** project, and press the green ENTER button. Follow the additional prompts closely....

• **Stay Under Rollers** - press 1) YES

• **DO NOT RESIZE or SCALE the projects!** If prompted, always **Keep the Original Size**. No scaling!

• **How to Place...** - press 1) Center

• **Cut Board to Size?** - press 2) NO

• **Select Vector Bit: 1/16" Carving** - Press ENTER. The machine will move the bit holder to the center.

• **Load Bit: 1/16" Carving** -Insert your 1/16" carving bit, then press the green ENTER button. (homes, etc.)

• **Select Cutting Bit: 1/8" Cutting** - Press ENTER. The machine will move the bit holder to the center.

• **Load Bit:1/8" Cutting** - Remove the 1/16" carving bit and insert your 1/8" cutting bit. then press the green ENTER button. (homes, etc.)

• **Select Vector Bit: 1/8" Cutting** - Just press ENTER. The bit is already installed. After homing, the machine will perform the 1/8" vector cuts.

• **Load Bit: 1/16" Carving** - Remove the 1/8" cutting bit, and insert your 1/16" carving bit, then press the green ENTER button. After homing, the 1/16" vector cuts will be performed.

• **After it is done, you will be prompted to load your 1/8" cutting bit.** Take out the 1/16" carving bit and insert your 1/8" cutting bit. Press the green ENTER button. The machine will perform the part cutouts. Your board will look something like this (fig. 2d)

fig. 2d Box_Front-and-Bottom.mpc

STEP 3 - Separate Parts
Separate the parts from the boards with a utility knife or hobby saw or rotary tool. Sand off the tabs and undesirable toolmarks of all parts except the spigot (the spigot will be sanded after glue up). (fig. 3a, 3b)

fig. 3a

fig. 3b

STEP 4 - Assembly
Glue the two spigot halves together. Clamp until dry. (fig. 4a, 4b)

fig. 4a

fig. 4b

I used clamps and rubber bands to hold the halves together while the glue dried.

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STEP 4 - Assembly (cont.)
After the glue has dried, remove the clamps and sand off the tabs and undesirable toolmarks from the spigot. Sand the top and back end of the spigot flat, too. In addition to hand sanding, I used a variety of abrasive tips with my rotary tool to expedite the sanding process. (fig. 4c)

fig. 4c

Mark the center of the top of the spigot and drill a pilot hole for affixing the handle. You can use a 0.125 " dowel to glue the handle on, or you can drill a pilot hole for a small screw if you want the handle to be able to rotate. (fig. 4d, 4e)

fig. 4d

Mark the top center with a pencil

Drill a pilot hole for a screw or dowel

fig. 4e

fig. 4f

Glue the spigot into the escutcheon. Allow to dry. (fig. 4f)

Glue the box parts to the back panel. Clamp until dry. (fig. 4g)

fig. 4g

After the glue has dried, remove the clamps from the box assembly. Using the four pre-drilled holes as a guide, extend the side panel hole depths into the back panel by a half inch or so with a hand drill. Glue in lengths of 0.125 " dowels that are a little longer than the holes are deep. Trim and sand the dowels flush with the surface. (fig. 4h, 4i, 4j)

fig. 4h

Drill through the side panel holes into the back panel

Glue dowels into the holes.

fig. 4i

fig. 4j

Trim and sand the dowels flush with surface.

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STEP 5 - Apply Finish
Apply your choice of finish. Here's what I used: (fig. 5a, 5b, 5c, 5d)

Spigot and Escutcheon Assembly:
• Left natural with several coats of spray Shellac

Faucet Handle:
• Rust Oleum Ultimate Stain - Traditional Cherry

Wall Box Assembly:
• Rust Oleum Ultimate Stain - Wheat

• Several coats Krylon Clear Acrylic spray overall

Spray Shellac

fig. 5a

Cherry Stain

fig. 5b

Wheat Stain

fig. 5c

Krylon Clear on all parts

fig. 5d

STEP 6 - Final Assembly
Attach the handle to the top of the spigot (glue in dowel or use a screw). (fig. 6a)

fig. 6a

Glue the completed faucet assembly to the back panel using quick-set epoxy. (fig. 6b)

fig. 6b

IN CONCLUSION
I hope you enjoyed making your Wooden Faucet Wall Planter!

Happy Carving!

Michael

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Materials Source Page

• **3M Radial Bristle Discs from** www.mcmaster.com
(stack 3 discs at a time on your rotary tool mandrel)
80-grit: part # 4494A19
220-grit: part # 4494A18

(also available from http://www.ottofrei.com)

Krylon Clear Gloss and Flat Acrylic
from WalMart™

Items Purchased at Home Depot™ or Lowes™

- **Rust-Oleum Ultimate Stain - Traditional Cherry**
- **Rust-Oleum Ultimate Stain - Wheat**
- **Quick-Set Epoxy**
- **Sandpaper**
- **Zinsser Bulls Eye Spray Shellac**
- **Disposable Brushes and Paint Rags**

NOTE: Direct weblinks were valid at time of this writing, but can change at any time. If links don't work, then try visiting the manufacturer's home page and do a Search for the item to get directed to a current/valid page.

Additional Resources

RESOURCES...
There are numerous resources for the CarveWright/CompuCarve owner to make their experience with these machines much more enjoyable.

Every owner should join the CarveWright User Forum (http://forum.carvewright.com/forum.php) where fellow users share their experiences and knowledge with these machines on a daily basis. It is a FREE service that you will surely appreciate. A handy Search Feature helps you find answers to any questions you may have.

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