



# HOW TO MAKE A STRENGTHENING RIDGE IN A BUCKET

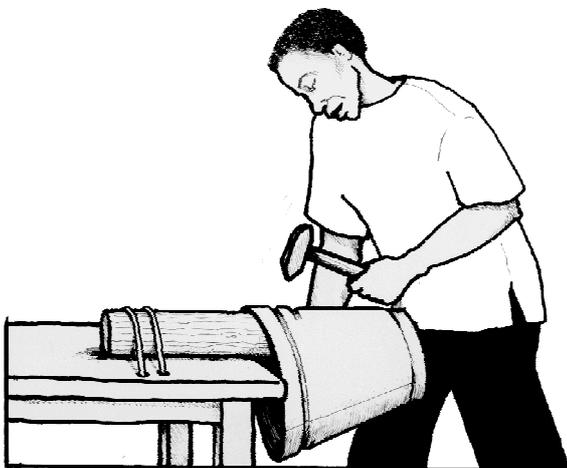
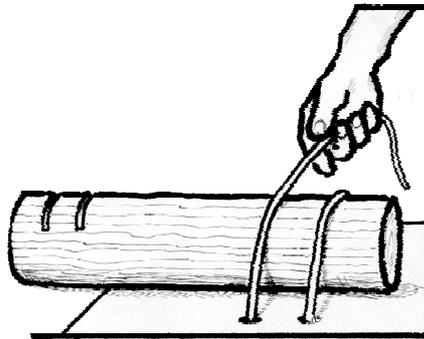
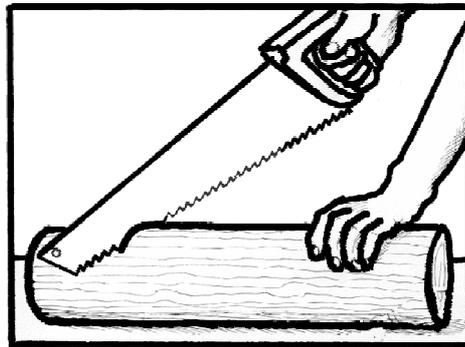
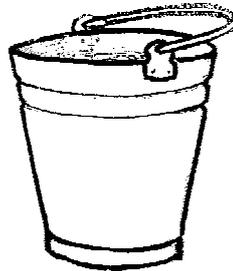
One or two ridges around the rim of a bucket will increase its strength and make it more ridged making it easier to use. One method of making ridges is with a wooden stake and mallet. Another method is to use a spring jenny. Ridges can be added to other metal objects to make them stronger.

## Making a ridge with a stake and mallet

Use a saw to cut grooves in a straight round hard log. Make two cuts, the width of the groove apart, straight across the log. Remove the wood between the cuts with a knife. The distance between the grooves will be the distance between the ridges made in the bucket.

Drill (or burn with hot steel rod) two pairs of holes in the bench.

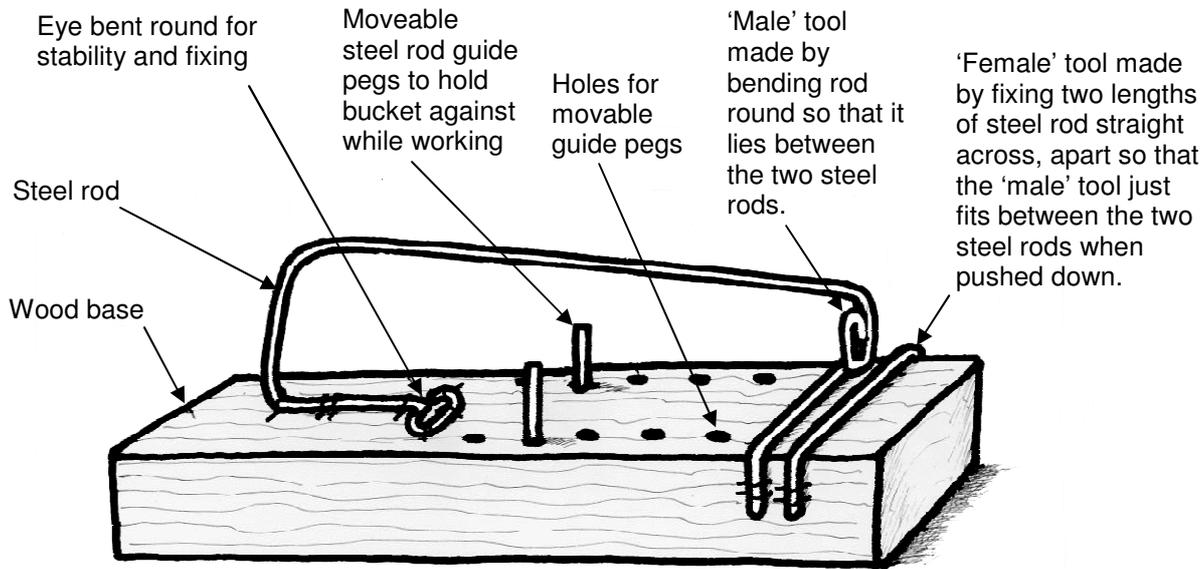
Use strong wire to fix the log to the bench, positioning the log so that the grooves are the distance from the bench edge that you wish the ridges to be from the rim of the bucket



## Making the ridge

- 1) Place the bucket over the log so the metal lies flat along the log, and the rim presses against the edge of the bench.
- 2) Make a wedge-shaped hardwood mallet, and strike the metal above a groove, forcing the metal down into the groove. Turn the bucket slowly round as the ridge forms.
- 3) Make the other ridge with the second groove.

## Making a ridge with a spring jenny



### Making the ridge

- 1) Place guide pegs in equal holes, to guide where the ridge will be made.
- 2) Place rim of the bucket against guide oegs, so that the outside of the bucket presses down against the female tool, so the male tool is on the inside of the bucket.
- 3) Strike the top of the male tool repeatedly with a hammer or mallet, and rotate the bucket slowly as the ridge is formed, taking care that the bucket rim always rests against the guide pegs.
- 4) When ridge is completed, move guide pegs and repeat the process for another ridge.



### References and further reading

- *How to Make a Folding Machine for Sheet Metal Work - Workshop Equipment 1*  
Rob Hithings, ITDG Publishing
- *How to Make a Foot-operated Workshop Drill Workshop Equipment 2*  
Paul Smith, ITDG Publishing
- *How to Make a Rolling Machine for Sheet Metal Work – Workshop Equipment 3*  
Rob Hutchings, ITDG Publishing
- *How to Make Cutting Shears for Sheet Metal – Workshop Equipment 4*  
Rob Hutchings, ITDG Publishing
- *How to Make a Hand-operated Holepunch – Workshop Equipment 7*  
Ted Stone and Jim Tanburn
- *How to make a Metal-bending Machine – Workshop Equipment 10*  
R.D. Mann, ITDG Publishing

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Directory: C:\Documents and Settings\neilnob\Local Settings\Temporary  
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Template: C:\Documents and Settings\neilnob\Application  
Data\Microsoft\Templates\Normal.dot  
Title: How to make a ridge in a Bucket Using a Stake and Mallet  
Subject:  
Author: Practical Action  
Keywords:  
Comments: Adapted in September 2003 by Neil Noble  
Creation Date: 9/4/2003 4:36:00 PM  
Change Number: 16  
Last Saved On: 9/23/2005 4:25:00 PM  
Last Saved By: Neil Noble  
Total Editing Time: 124 Minutes  
Last Printed On: 4/22/2008 11:44:00 AM  
As of Last Complete Printing  
Number of Pages: 2  
Number of Words: 317 (approx.)  
Number of Characters: 1,812 (approx.)