blades are always at least 1 in. above those stumps. Now I can use the mower anywhere without worrying about hitting the stumps. I used 2-in. angle iron to make the skids."

Steve Spiering, Milbank, S. Dak.: "I converted an old step-in electric fence post into a low-cost, drill-operated paint mixer which I use to stir up 1-gal. pails of paint. I used a chop saw to cut the post off flush with the top of the step and then cut a series of notches into the step. To stir paint, I insert the bottom end of the post into the drill chuck and drag the notched step along the bottom of the pail. The same idea would work for mixing 5-gal. pails of paint if you extended the length of the handle."

Richard B. Allen, Queens Leo, Nova Scotia: "During the past three years I've had difficulty being able to see the twine when baling with my New Holland 630 baler. I couldn't tell if the twine was moving or not so I often dumped out bales that weren't tied. I also had bales with twine wrapped all through them because the twine didn't cut off and I didn't realize that it was still going out. I solved the problem by mounting a pulley on front of the baler. The twine travels under this pulley so I can see at a glance whether it's moving or not. It didn't cost anything more than a little time and material I had on hand."

Stan McDonald, 402 Rosedale Ave., Foxboro, Ontario, Canada K0K 2B0 (ph 613 968-9516; E-mail: smcdonal@kos.net): "I came up with an attachment for small lathes that's designed to cut round

shapes or curves into brass, aluminum, steel, or plastic. The tool cuts convex curves up to 3/4 in. in diameter. Works great for making round ball joints, governor weights, railing knobs, round contact points for tools, nose cones, and many other useful and decorative objects.

"Commercial turning tools like this sell for more than $900. My tool is made to fit most small lathes with a 4 1/2 to 11-in. swing. Sells for $75 plus shipping."

Marvin Kellen, Rt. 2, Box 155, Madison, Minn. 56256 (ph 320 598-3279): "When the return hydraulic line under the platform on my Deere 520 tractor rusted out, I discovered that Deere no longer makes the part and no one else does, either. So I had a local machine shop fabricate the part for me and make six others at the same time. It's designed to fit either Deere 520 or 530 tractors. I know it works because I installed it on my own tractor. I'm willing to sell to others for $69 apiece including S&H."

Michael Vanhorn, Sentinel Butte, N. Dak.: "When the U-joints on our 1983 Ford F-250 4-WD pickup went out, we made a tool that lets us remove the U-joints without having to take the driveshaft out. We just slide the tool in there, take the U-joints off, and push the new ones in. The tool consists of two flat metal plates that are 2 1/2 in. wide by 5 in. long, with a nut welded into the center of it. We simply tighten up a bolt inside the nut in order to push the U-joint out. Then we turn the tool around and push the new one back in."

Robert T. Valentine, 417 Commercial Ave. S., Wolsey, S. Dak.: "I read about the problems Norman Fiddler has had with front spindles breaking on his Deere 4020 tractor (Vol. 25, No. 5). I had the same problems with my Deere 4010 but I solved it in a different way. I bought a used Case 1370 front axle assembly from Paul Meyers Tractor and Combine Salvage in Aberdeen, S. Dak., and modified it to fit the 4010. I used the 4010's regular saddle without any modification. We cut the Case cylinder brackets off the back of the Case front end. Then we cut loose the rear bracket that's welded to the Case wishbone near the back, using the proper size shaft as an alignment guide. We then placed the shaft through the Case front end and through the Deere saddle. Next, we moved the cut-out Case mounting ahead so that it's against the Deere saddle and rewelded it in place.

"The Case tie rod ends are heavier and thicker than the ones Deere uses so we had a local machine shop enlarge the holes in the Deere steering arm in order to accept the Case tie rod ends.

"The machine work was done by folks at the Grasslands Hutterite Colony (11865 - 307th Ave., Wetonka, S. Dak. ph 605 439-3273). Ask for Alvin Wollman or George Waldner, Jr.).

"I solved another problem with a broken spindle on our Oliver 1650 tractor. The 1650 uses the same spindle found on an Oliver 88 tractor. I removed the spindles complete with the outside housing and also the wheel hubs and traded them to a salvage yard for complete assemblies from an Oliver 1955 model. The 1955 has much heavier spindle assemblies and hubs but uses the same center section so the change was simple to make."

Gene Snellings, Montreal, Mo.: "I made my own shop on wheels, starting with the frame of an old pickup to which I added a tongue made of steel box tubing. I used two sheets of 9-gauge steel to make a 7 by 9-ft. bed, which has toolboxes on both sides - three under the bed and one on top. On front are expanded metal racks.

"The trailer carries a Miller welder, cutting torch, and air compressor which are all bolted onto the bed. It also carries a chop saw, air tools, welding clamps, and other metal working tools such as a vise and grinders. I welded used car wheels onto the trailer that serve as racks to hold hoses and welder cables. I also added a rack that's specially-designed to hold acetylene bottles.

"I use the back side of the trailer as a work bench in the field. The trailer is legal to pull on the highway and has all required lights and license."

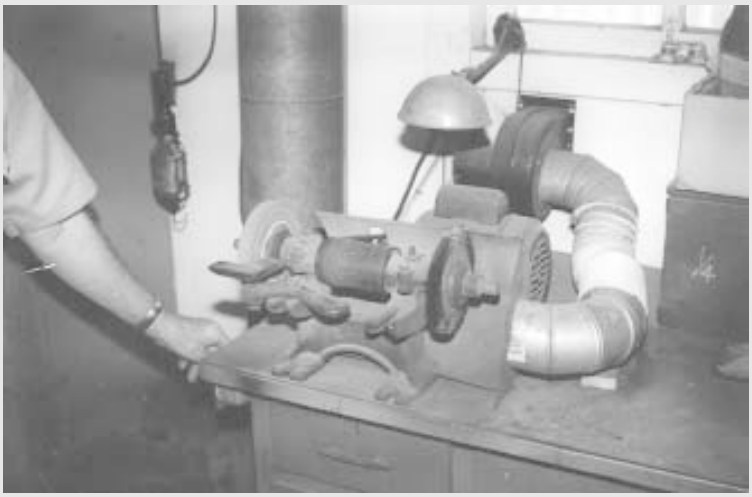
Steve Spiering, Milbank, S. Dak.: "I used a length of 2-in. dia. PVC tubing to make a vacuum nozzle that hooks up to my shop vac. It works great for cleaning out leftover seed in my drill fill auger. I used an electric heat

gun to heat one end of a 1-ft. length of tubing until it started to get soft, and then squeezed it between two boards to flatten it out, leaving a narrow opening. Then I heated the other end of the pipe and inserted the vacuum hose. When the pipe cooled off, I had a tight fit. I also use it to clean out grain from under the aeration floor in my grain bin. You could make the pipe as long as you need."

Denis Seewald, Mustang, Okla.: "The bearings were worn out in my late '40s or early '50s vintage John Deere 8 ft. tandem disk. When I took it apart, I found there was dirt in the bearings and that had worn out the cages that hold the ball bearings. The races and the balls were still good. I priced parts for it and found those bearings cost $42 apiece -there are eight of them. New seals for each bearing were $10. Replacing all the bearings would have cost more than $400. Since I only use it a few hours a year, I decided to try to remake the cages with lead.

"To do this, I laid the bearing flat with one old seal in place on the bottom side. I spaced the balls equidistant around the race and covered everything well with grease. Then I poured melted lead into the bearing, making sure the lead was bridged across every ball. Since the lead won't stick to grease, when it hardened, the balls rolled freely in the new lead cage.

"I've used the disk about 15 hours since I did this and it's still running fine. I don't think I'd try it on a newer, more expensive piece of machinery, but if it's an older machine that gets only a little use, it doesn't take much longer than replacing the bearings and it's a lot less expensive."



Richard Cox, Jacksonville, Ill.: "Grinding jobs are a lot cleaner ever since I installed a vacuum system to carry dust and small grindings out through my shop wall. I used a small fan and furnace pipe with elbows to do the job. I had dust collectors built to mount right up behind the grinding and buffing wheels."

Wringer-Washer For Cleaning Shop Towels

Shop towels and chamois will last longer if you use this hand-operated wringer to wash them, says Fast Lane Products, Palos Verdes Peninsula, Calif.

The "Wring-A-Way" wringer consists of a rustproof, zinc-plated, all-steel frame housing two 15-in. long rubber rollers. A single knob at the top makes it easy to adjust closeness of the rollers (up to 90 percent of the water in a wet towel can be squeezed out).

The wringer comes with two adjustable clamps at the bottom that allow the unit to be attached to laundry tubs, barrels, sawhorses, or the company's "Water-Wheels", a 15 1/2-gal. portable galvanized steel drain tub and stand. A 30-in. hose connected to the tub's drain outlet allows easy removal of water. The tub comes with a set of casters which can be left off for stationary use.

"The wringer's gentle action greatly extends chamois life," says Fay Flanzer. "We've been using the same chamois to clean our cars for more than 10 years."

The Wring-A-Way wringer sells for $139 plus $10 S&H. The Water-Wheels tub sells for $99 plus $19 S&H. Both units together sell for a a special price of $219 plus $22 S&H.

Hand-operated wringer uses two rubber rollers to squeeze water out of towels.

Contact: FARM SHOW Followup, Fast Lane Products, Box 7000-50, Palos Verdes Peninsula, Calif. 90274 (ph 800 327-8669; E-mail: info@fastlaneproducts.com; Website: www.fastlaneproducts.com).