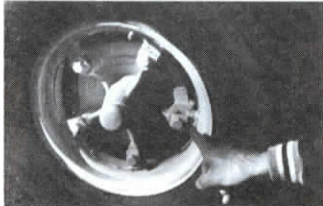


# Repairs & Maintenance Shortcuts

*Continued from previous page*

shares, and then grinding them down to shape. Chromium and carbon are metals that will withstand severe abrasion. Temperature and penetration are critical as too much heat will make the metal too brittle and not enough penetration will not fuse the metals properly. We've successfully used a rod with a chemical analysis of C-3.5%, MN-4.2%, SI-1.9%, and CR 26.5%. If you do it right, you can increase wear 6 to 10 times."

**Chuck Marley, St. Charles, Mo.:** He made a serviceable wheel and axle combination using a trailer home axle fitted with



auto rims. He was building a trailer for long hauls over the road. The problem with just using a trailer home axle was that they're often fitted with just 13.5-in. wheels. He wanted to fit the trailer with 15-in. wheels for a better ride and more wear.

To adapt the car rims to the trailer wheel hubs, he cut away the center of the tires, leaving only 5 small tabs attached to the rims. Then he welded lengths 1-in. dia. steel rod to the tabs, positioned so that when the lugs and cleats on the trailer hubs are tightened down, they grip the short pieces of rod, holding the tires in place. Marley has used the trailer for several years with no problems."

**Dean I. Sill, Monroe, Iowa:** "If you have a problem with leaks between a wheel rim and a tubeless tire, you can solve the problem by marking the point of the leak, breaking the bead, cleaning off both surfaces, and then laying down a thin bead of RTV rubber cement. Inflate immediately. In most cases, it'll stop the leak. Easy, fast and virtually no cost."

**Graham McIntyre, Enid, Okla.:** "I've found that oak pallets make slick overhead shelving to increase storage in my 50 by 30-ft. Morton Building. I've lined both



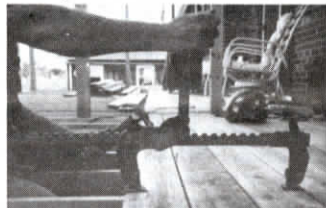
walls with pallets. I lift the pallets into place, up against the rafters with a rope and pulley. Then I tie both sides of the pallet in place with 1/4-in. dia. steel cable. I screw or nail one end to the wall. When secured in this manner, the pallets will support at least 1,200 lbs. Since there's no need for poles to support them, they don't take up space underneath. I use a lightweight aluminum ladder to get at things on the "shelves", which are 12 ft. off the ground."

**Isaac Wenger, New Bloomfield, Pa.:**

"We saw Ernest Newman's 'Big Bale Cutter' chain in FARM SHOW (Vol. 18, No. 1) and thought it was a great, but slightly pricey, idea. I figured I could make something that works as well for a lot less. So last fall, I took an old worn out chain saw chain and ground the cutter hooks straight and sharpened the cleaners. I put the old, modified chain back on our saw and have since used it to cut at least a dozen 5 1/2-ft. by 4-ft. round bales. It works great, just like a hot knife through butter. Incidentally, finding new uses for worn out things helps pay for my subscription to FARM SHOW."

**Leroy Windshiemer, Brush, Colo.:** "Here's a method I discovered accidentally a few years ago to keep soil from slabbing while cultivating. I was changing a point on one of my Orthman cultivator shanks and inadvertently used a bolt that was too long. I discovered that when the bolt holding the point in place protrudes a little, rather than being recessed, it breaks up slabs pulled up by the cultivator. I changed to longer bolts for all my points and haven't had problems with slabbing since."

**Jerry Ziegler, Providence, Ky.:** "I made this tool to straighten warped lumber last year when I was laying flooring on a three-season porch addition to our house. I was

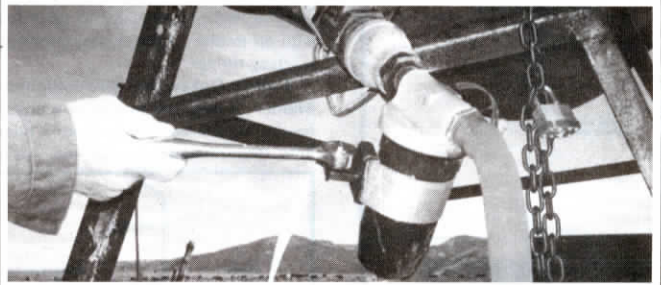


using treated 1 by 6's, which warp pretty easily once you spread them all out. So I welded a 3/16-in. thick section of angle iron onto the end of both jaws of an ordinary fence stretcher. To use the tool, you put a nail between the crack at each end of the board. Then you grip the board just ahead of the last one you nailed down and the one you're going to nail down. By pulling bows out of the wood this way, you get perfectly spaced, straight boards every time. The tool worked so well for the floor, I'm going to use it - just a little differently - for the tongue-in-groove ceiling I'm putting in the porch this year."

**Bob Squirell, Cabool, Mo.:** "I bought a 1952 Allis-Chalmers WD tractor with a blown engine for \$50. I had a 6-cyl. 235 cu. in. engine out of a 1956 Chevy dump truck. So I repowered the WD with the truck engine. Now I've got a tractor that pulls a 14-ft. tandem disk or a 6-ft. offset disk equipped with 24-in. dia. blades with no trouble at all. Here are a couple of key elements in the job.

"I used a homemade adapter to bolt the Chevy bell housing and Allis torque tube together. It consists of two 8 by 10-in. 1/2-in. thick plates with a piece of 5-in. dia. pipe welded between them where the clutch shaft goes through. One plate bolts to the bell housing and one to the torque tube. The adapter design keeps the bell housing and torque tube in alignment.

"Also, I used the Chevy manifold, turned upside down and bolted back onto the engine, so I could install a Marvel-Schebler up-draft carburetor with the use of a home-

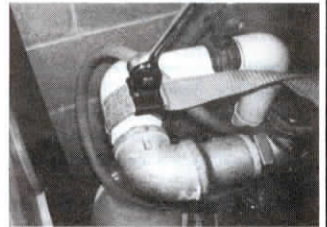


## "Lock-On" Tool Grips Any Size Filter, Shaft

"I'm a road maintenance supervisor and my partner, Clair Teeter, is a farmer, so we operate and maintain many different types of heavy equipment. We were both tired of using filter wrenches that didn't work well or were awkward to use. We decided to come up with something better," says Johnny Erickson, who formed a company to market the "Lock-On Tool" that the two men designed.

"After months of trial and error, we came up with a tool that's like nothing else on the market. This one tool replaces over \$120 worth of different filter wrenches because it fits all sizes. What's more, it's the only tool we know of that will grip a polished steel shaft - such as the ram on a hydraulic cylinder - without scratching or damaging it in any way. It's already being used in a number of tractor and truck shops and everyone who tries it says they've never seen anything like it," says Erickson.

The Lock-On Tool consists of a seat belt-type webbed strap and a tightening bracket that's designed to fit a half-inch ratchet. One end of the strap is attached permanently to the tightening bracket. The other end wraps around the filter or



shaft and is inserted into the bracket and pulled up snug by hand. Then you just insert a ratchet and crank on it.

"It fits anything from 1 to 7 in. dia. What mechanics really like about it is that you can use it in even the tightest places because you can put an extension on the socket wrench and reach the tool from below or above the filter. It also works well on plastic pipe, conduit, turning crankshafts, alternators, and anything else that needs to be turned or twisted. Works on square or round objects."

Sells for \$25 (plus \$3 S&H).

Contact: FARM SHOW Followup, Lock-On Tool, P.O. Box 155, Almo, Idaho 83312 (ph 208 638-5522 or 208 824-5534).



**Bob Squirell turned his 1952 Allis-Chalmers WD into a solid workhorse by repowering it and "modernizing" it with new features.**

made adapter. I used a governor off an old combine to control engine speed.

"Besides repowering the tractor, I've also added a lot of safety and comfort features. For example, I've got a wide front axle off a 400 International tractor on the Allis and

I built a rollover structure out of 1/4-in. thick steel tubing. I've mounted halogen headlights on top of the cab. For comfort, I've added an air ride seat off an old Freightliner semi and installed the power steering unit of an old Camaro car."

## Giant Towel Rolls Handy In Shop

Marshall Litchfield, Macomb, Ill., always has plenty of paper towels in his farm shop. He buys big 3-ft. dia. commercial rolls of towels and hangs them on a roller about 8 ft. off the ground. A section of bow saw blade mounted on a spring-loaded arm is used as a cut-off blade.

"Each roll weighs about 70 lbs. It takes about six to eight months for us to use up a roll," says Litchfield.

He buys the 3-ft. dia. rolls of towels from a friend who gets them from a Wisconsin dairy equipment supplier.

Contact: FARM SHOW Followup,



Marshall and Kendall Litchfield, 15340 N. 700 Road, Macomb, Ill. 61455 (ph 309 254-3481).