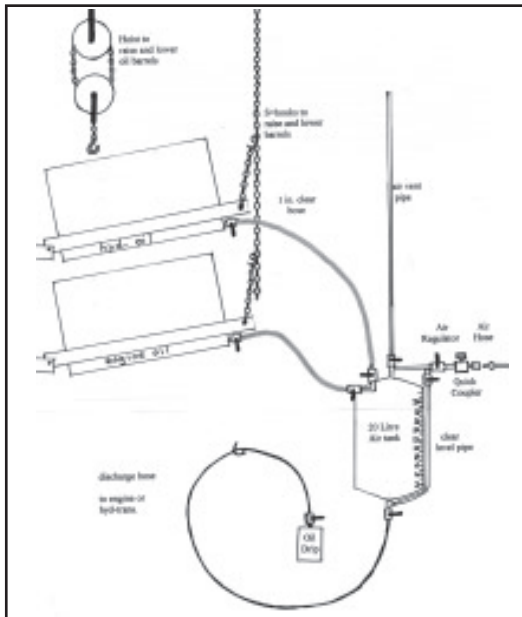


Barrels are lifted into position by chain hoist. Oil drains down to small air tank that's pressurized to service equipment.



Air-Powered Oiler

Melvin Penner came up with a "less messy" way to refill oil in engines, transmissions, hydraulics and differentials.

"It's a lot cleaner than using oil pitchers and funnels and great for getting into hard-to-reach places," he told FARM SHOW.

He hangs barrels of oil from the ceiling of his shop on metal frames that are hinged at one end and attached to chains at the other. This makes it easy to lower the end of the barrel to completely drain out all the oil.

He used a "carry air" portable tank to make an oil reservoir, running a clear plastic tube up one side with measured levels marked on the sides. That way he simply pours a measured amount of oil into the small tank from the barrels, closes the barrel valves and opens the air valve to push oil out to a length

of tubing. He uses approximately 20 psi. An air regulator is needed where air goes into the tank. An air vent tube goes out the top.

"I used 1/4-in. valves and fittings for the air components and level pipe. The fittings and valves from the barrels to the air tank are 3/4-in. with 1-in. dia. clear plastic pipe fit over the 3/4-in. fittings. The discharge pipe is fitted with 3/8-in. valves and fittings. An extension on the discharge pipe is needed for larger machinery, like combines. The end of the discharge hose hangs in a drip can attached to the wall."

Contact: FARM SHOW Followup, Melvin Penner, P.O. Box 123, RR 1, Rd. 31E, Ste. Anne, Manitoba, Canada R5H 1R1 (ph 204 355-4479).

Heat-activated fire extinguisher was originally designed for race cars.



"Mount Anywhere" Automatic Fire Extinguisher

This new heat-activated fire extinguisher can be used in any engine compartment or anywhere there's a potential for fire.

The "Fire Fight" line of products was originally designed for race cars. However, the products can also be used by owners of motorhomes, classic cars, and farm equipment. The fire extinguishers are available in both manual and automatic designs. The automatic designs use heat-activated thermal links that are activated at 165 or 286 degrees Fahrenheit depending on the application. A variety of sizes are available.

"We can customize the design - just tell us what you need and we'll make it for you," says Ralph Kennerknecht, Fight Fire Extinguishers, Melbourne, Fla. "Although we specialize in custom fire suppression for race cars and service vehicles such as police cars, we believe we can make designs for the farm environment as well and look forward to

hearing from FARM SHOW readers who might be interested. Our principal fire suppressant is halon, which has no equal in fighting fires. We're buying up existing stocks as halon is no longer being made. New replacements are on the market but we'll use halon until it's no longer available.

"Farm applications can include tractor engine compartments, remote pump stations, balers, combine engine compartments and other fire sensitive areas. Our automatic release fire extinguishers start at \$125 and range up to \$375. That isn't a lot of money when you consider what a fire can do to expensive machinery."

Contact: FARM SHOW Followup, Fire Fight Fire Extinguishers, Division of Global Aerotech, Inc. C-7, 2885 Electronics Dr., Melbourne, Fla. 32935 (ph 321 752-9096; Ralphnio@bellsouth.net; www.FireFight1.com).



Barbed wire unroller carries roll off the ground to keep wire from tangling.



Barbed Wire Unroller Rides On Wheels

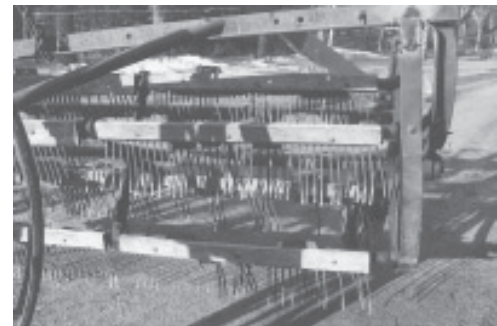
"There are lots of barbed wire unrollers around but mine is different because it carries the roll off the ground," says Dennis Shelts, Huntsville, Ill.

"Most unrollers like this roll the wire along the ground. That tends to loosen up the roll of wire and can cause tangling. Also, the end-to-end stability of the fence wire can be poor, putting a lot of twist and stress on your wrist and arm.

"I solved the problem by mounting wheels on the handle with pivoting arms holding the roll of wire. For transport, you just swing the roll up and back against the handle. To unroll the wire, just flip the roll down onto the ground."

Contact: FARM SHOW Followup, Dennis Shelts, Rt. 1, Box 72, Huntsville, Ill. 62344.

Doug Firebaugh turned an old hay rake into a power rake by mounting a series of flat-toothed metal rake heads on it. He uses it to remove gravel from his lawn and to rake leaves in the fall.



Power Rake Makes Lawn Cleanup Easy

Doug Firebaugh's power rake gets gravel off his lawn and back on the road quickly, and makes short work of leaf-raking in the fall using an array of flat toothed metal rake heads.

"The clerk at the farm supply store didn't know what to think when I bought 24 metal rakes at once," says Firebaugh. "I needed rakes with a metal flange that I could attach to the rake bars."

After removing the original tines, he cut down the bars, frame and axle. The old rake went from a 7-ft. swath to a four to five-ft. swath. Firebaugh also cut off one of the rear wheels.

"I wanted it to be short enough to get around trees in the yard," he says.

He then mounted half a dozen metal rake heads to each bar by placing them between two 1 by 2-in. wood strips which he bolted

to the bar. To power the rake, he modified the ground drive to run off an old 3 hp gas engine.

"The driveshaft still goes through the gearbox to power the four bars, but it's powered by the motor now," explains Firebaugh.

He cut the dogs off both wheels, locked them to the drive axle and slipped a pulley on it. A series of belts and small-to-large pulleys gear the drive speed down by the time it reaches the large pulley on the axle.

"I pull it with a lawn tractor, and the gas engine lets me stop it and let the rake run in place," explains Firebaugh. "I can move slow where the grass or leaves are heaviest and speed up where it's light."

Contact: FARM SHOW Followup, Douglas Firebaugh, 697 N. Harlem Center Rd., Freeport, Ill. 61032 (ph 815 232-6341).

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