

Steel wagon wheel bolts to one side of electrical cable spool, acting as a giant pulley.

ROLLS UP 3 MILES OF WIRE AT A TIME

Giant Belt-Driven Wire Rolling Spool

An electrical cable spool and an old steel wagon wheel are at the heart of a giant belt-driven wire roller built by Valley Springs, S. Dak., farmer Carl Palmberg.

"I built it in 1974 and I've rolled and unrolled many miles of wire with it since then," says Palmberg, who used all salvaged materials to build it.

The wheels and main frame were taken from a portable highway construction sign. The roller is just a standard cable spool. A steel wagon wheel bolts to one side of the spool, acting as a giant pulley. The pto and gearbox were taken from a front unloading manure spreader. Drive pulleys came off an

old threshing machine and the discs on either side of the main pulley were taken from a grain drill.

The spool holds 3 miles of barbed wire at a time and Palmberg says it will roll or unroll as fast as you can drive. He made a slip clutch for the main drive pulley which is a spring-loaded rectangular-shaped piece of wood held in place by a spring on the side of the pulley. By turning a nut on the end of the spring, he can adjust how fast the wire unrolls when the spool is free-wheeling.

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Tined weeder "combs" weeds out of corn, soybeans, small grains, etc.

LOW HORSEPOWER MACHINE REDUCES HERBICIDE USAGE

New Tined Cultivator "Combs" Out Young Weeds

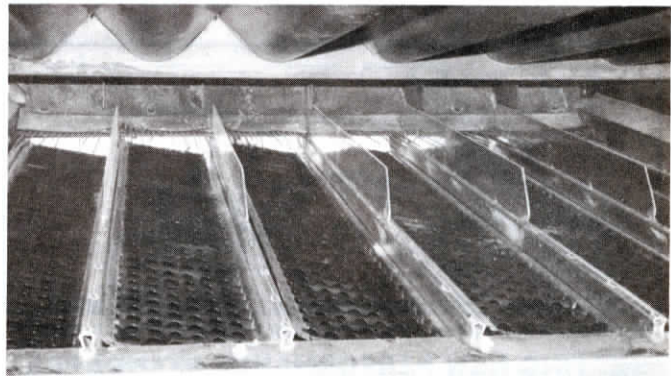
When Canadian farmer Jan Beekman went to Holland last year on vacation, he heard about an innovative new tined cultivator that was selling fast to farmers to keep crops weed-free without herbicides.

After seeing it work, Beekman imported an 18-ft. model and put it to the test on his own farm. It worked so well, he decided to become North American distributor.

The Einböck tined weeder "combs" weeds out of almost any standing crop including corn, soybeans, small grains, potatoes, and so on. Fitted with 6 rows of gently curved

20-in. long steel tines, the new weeder can be used on crops up to about 1 ft. tall. In corn, Beekman first uses the weeder about 5 days after planting to get rid of small weeds. It also breaks up the soil crust to improve seed emergence and increase water absorption and can be used on hay ground to stimulate growth.

Beekman says the no-chemical approach requires more management. "You have to get the weeds when they're small - just breaking through the seedbed - and when the ground is dry and loose. It covers about



Sieve is fitted with rigid aluminum deflectors that separate chaffer sections. Chaffer sections each pivot freely from left to right.

STOPS GRAIN LOSS ON SIDEHILLS

Self-Leveling Combine Sieve

"It keeps grain from being lost out the back of your combine on rolling ground," says Ron Murphy, inventor of a new self-leveling combine sieve that's designed to stop grain buildup along combine sidewalls.

The new sieve replaces the original chaffer sieve. It's fitted with rigid aluminum deflectors that separate chaffer sections. The chaffer sections each pivot freely from left to right, controlled by a 20-lb. steel pendulum that hangs outside the combine. A control rod connected to pivoting chaffer sections turns as the pendulum swings.

"It keeps the chaffer sections parallel to the plane of the pendulum so they remain

level on slopes at all times," says Murphy. "The chaffer sections rotate from one side to the other while the rigid vertical deflectors keep grain from running downhill. On average, it lets you increase speed by 1/2 mph on sidehills with no grain loss.

"I've built models for Gleaner, Deere, and IH combines and haven't found a combine that it won't work on."

Sells for \$1,500 to \$2,500 depending on combine size and model.

For more information, contact: FARM SHOW Followup, Impro, Inc., 1349 East Clearwater Lane, Gilbert, Ariz. 85234 (ph 319 643-7300).

RELEASES PRESET AMOUNT OF CHEMICAL TO REDUCE WASTE AND CROP INJURY

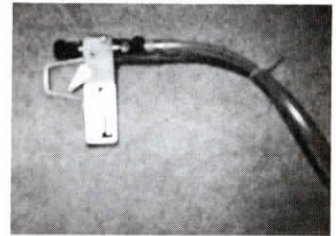
"Quick Shot" Spot Sprayer

New "quick shot" spot sprayer releases a controlled burst of chemical with each trigger pull to reduce waste and crop injury caused by overapplication, says inventor Perry Heard, Lubbock, Texas.

The sprayer operates on a 12-volt battery and dispenses only a preset amount of chemical at each pull of the trigger.

"It reduces chemical use and applicator error," says Heard. "It has a hair trigger that releases a metered amount of chemical. It's lightweight so it can be used by women and small children. I started working on the sprayer after I noticed that my spot-spray crew used a lot more chemical after they had been working for several hours. The amount of herbicide injury to my cotton plants increased noticeably."

Heard says much of the problem is due to operator fatigue. An operator who pulls the spray wand trigger thousands of times a day gets fatigued and is slower in releasing the trigger, which allows more chemical to be



Sprayer releases controlled burst of chemical with each trigger pull.

dispensed with every shot of spray.

"Once you pull the trigger on my spray wand, the shot of spray is released and no more chemical will come out until the trigger is released and pulled again," says Heard.

Sells for \$130.

For more information, contact: FARM SHOW Followup, Perry Heard, Farm World, 2733 79th St., Lubbock, Texas 79423 (ph 806 745-3330).

70 percent of the weeds and rips out the rest. The faster you drive with it, the greater the success. We've worked at speeds up to 7 1/2 mph."

Angle of tines can be adjusted to five different positions, depending on weed size and ground conditions. The more vertical the tines, the more aggressive the tillage. Vibration of the tines is critical to success of

the machine.

Available in sizes from 9 to 36 ft. in width, the largest unit requires only a 70 hp. tractor. It folds hydraulically. An 18-ft. unit sells for \$4,700 (Canadian).

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