## 3-Pt. "Auger Caddy" For Unloading Bins

"It eliminated the need to have a separate unloading auger at each of my six bins," says Norval Hundertmark, Humboldt, Iowa, about his 3-pt. "auger caddy" that makes it easy to move an upright unloading auger from bin to bin.

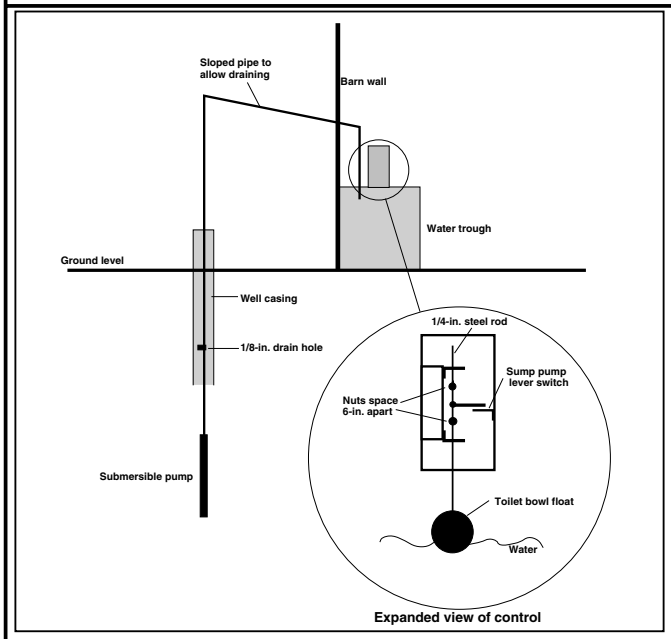
The caddy is used to move the upright unloading auger which is connected to a short length of horizontal auger that clamps onto each bin's unloading tube.

Hundertmark used flat steel, angle iron, and channel iron to build the 4-ft. high, 32-in. wide caddy which quick-taches to his 3-pt. hitch. A yoke and chain binder at the top of the caddy are used to secure the upright auger, and a length of channel iron at the bottom of the caddy keeps the base of the auger from twisting when moving. A short length of auger clamps into the bin unloading tube.

To remove the auger from a bin, Hundertmark positions the caddy under the base and unclamps the horizontal auger from the bin unloading tube. He then chains the upright auger to the yoke and drives to the next bin.

"It eliminates the need to buy an unloading auger for each bin which saved me at least $10,000," says Hundertmark.

Contact: FARM SHOW Followup, Norval Hundertmark, 1409 Elmhurst, Humboldt, Iowa 50548 (ph 515 332-1022).




## "No-Freeze" Water Pump, Waterer

Canadian farmer Bill Matheson faces the challenge every winter of keeping waterers, pumps and water lines from freezing. He came up with a freeze-proof setup that's simple yet works.

It consists of a water trough inside his barn that's fed by a water line that runs directly to a submersible pump in his well. There's a 1/8-in. dia. drain hole 5 ft. below ground in the line that runs down into the well casing. The line runs up to a sloped pipe that runs to the water trough. Water level inside the trough is controlled by an automatic float made from odds and ends, and a toilet bowl float.

The float mounts on a 16-in. long 1/4-in. dia. rod that mounts in a box above the water trough. There are two nuts on the rod spaced 6 in. apart with a pump switch located between them. The cattle have to drink at least 6 in. of surface water depth in the trough before the float lowers down enough to start the pump again. When the pump turns off, water drains out the 1/8-in. hole in the well and also down the sloped portion of the pipe into the trough so there's no water in the lines to freeze. A heater in the trough keeps the water from freezing.

Contact: FARM SHOW Followup, Bill Matheson, Box 118, Stonewall, MB R0C 2Z0 Canada.

## Bolt-On Gate Stop

"It's simple but it works," says Wayne Wiley, Gordon, Neb., about his bolt-on gate stop that attaches with two U-bolts to the bottom corner of any gate.

When it's not needed, the gate stop folds up out of the way. To hold a gate in place, you simply flip it down against the ground.

"I have them installed on six of our gates and they really come in handy. No need to go hunting for a stick to hold the gate open," says Wiley, who's applied for a patent on the gate stop and wants to find a manufacturer.

Contact: FARM SHOW Followup, Wayne E. Wiley, 500 N. Oak, Gordon, Neb. 69343 (ph 308 282-2748).

## Low-Cost Feederhouse Reverser

"I made this simple, inexpensive feederhouse reverser for my Massey-Ferguson 760 self-propelled combine. It attaches to the top shaft on the feederhouse," says Gerald Oloske, Edmonton, Alberta.

"I cut four notches into a steel ring and welded the ring to a short length of 2-in. sq. steel tubing. A bolt on each side of the ring fastens the tubing to the end of the feederhouse shaft. To operate the reverser I use an unplugging wrench that comes with the combine and is designed to unplug the cylinder and open the rock trap. I simply fit the wrench over the end of the tubing and turn it. It turns easy. Works as good as a $1,200 commercial hydraulic reverser, maybe better, because if rocks get caught in the feederhouse I can watch them come out of the header as I turn the wrench and make sure that they're all out before I start combining again."

Contact: FARM SHOW Followup, Gerald Oloske, 10415 120th Ave., Edmonton, Alberta, Canada T5G 0S5 (ph 403 479-4868).

## Low-Cost, Simple Guidance System

Here's a low-cost, do-it-yourself guidance system used by sunflower growers Blake and Calvin Nestibo to make cultivating easier.

"It's like putting your tractors on auto pilot," says Blake of Goodlands, Manitoba. "We've used this method for three years on about 1,200 acres a year. It greatly reduces operator fatigue and slightly increases speed at which you can cultivate."

The system consists of two C-tines off a 12-row Wil-Rich cultivator that mount on a 65-in. long 4-in. sq. toolbar that mounts across the tongue of their Deere 7200 MaxEmerge planter. The tines are positioned 4 ft. behind the tractor's hitch so they clear the rear tires on turns and the planter's front tires in transport. The tines are spaced on 60-in. centers, exactly the same as the rear tires on the Case-IH 7110 they use to pull the planter.

The tines run about 4 in. deep, leaving a track 6 in. wide and 3 in. deep immediately after planting. While the track erodes somewhat in the weeks between planting and cultivating, there's still plenty of it left to guide the Nestibos' Deere 4430 and Case-IH 7110 for cultivating.

"The key is, we put single-ribbed, narrow tires on front of the 4430 and 7110 to keep them in the track," Nestibo explains. "It works like a charm."

Contact: FARM SHOW Followup, Blake Nestibo, P.O. Box 9, Goodlands, Manitoba, Canada ROM ORO (ph 204 658-3450).