

## TAKES WORK OUT OF CHECKING GRAIN

# Spiral Stairway For Grain Bins

"It makes checking bin openings as easy as going upstairs in your home," says Wayne Hansen, president of Hansco Inc.'s new spiral stairway for grain bins. "They're especially nice for older persons with arthritis or other physical problems," notes Hansen.

No on-site welding is required to assemble the stairway. The bottom pipe section, cemented into the ground, extends 5 ft. above ground level. Additional 5-ft. sections telescope into the bottom section. As you build the stairway, you use the steps to stand on.

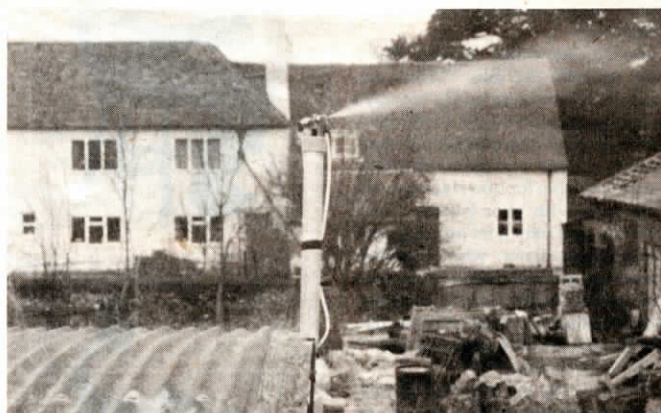
Individual 10-in. high steps are factory welded to a pipe sleeve that slips over the vertical support pipe and is locked in place with a set screw. Underground plastic pipe (1 in. dia.) is used for the hand rails. Takes about 14 man hours to install the steps on a 20-ft. high bin.

Cost for materials is \$43.50 per step, including catwalk platform on top step. Optional bin-to-bin catwalk is available for linking clusters of close-together bins. Stairway can be adapted to workshops, barns, homes and other on-farm applications.

For more information, contact: FARM SHOW Followup, Wayne Hansen, Pres., Pomeroy, Iowa 50575 (ph 712 468-2832).



No on-site welding is required to assemble the bolt-together stairway.



As many as 10 spray nozzles, mounted around slurry tank and barn, spray odor-fighting chemicals into air.

## CHEMICAL APPLICATOR KICKS IN WHEN WIND BLOWS TOWARDS TOWN

# Odor Control System Puts Stop To Complaints

If you farm near town or near neighbors who object to the smell of manure, you'll be interested in a new odor control system that automatically eliminates farm smells.

Sterling Industrial, located in England, first developed the smell-chasing equipment for sewage and

industrial uses. They got into the farm business when the owner of a 150-cow dairy near Whitchurch, in Hampshire — who had close suburban neighbors — nearly lost his farm because of legal action against the smell of his above-ground slurry tank. The farmer tried additives,



The three in-line pumps connect to hoses from three separate chemical tanks.

## FIRST OF ITS KIND PTO ROLLER PUMPS SCREW TOGETHER IN SERIES

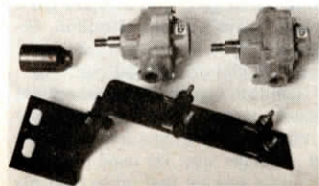
# "Gangable" Pumps Spray Up To 3 Liquids At Once

You can handle up to 3 field spray chores at once with new Shaft Master "gangable" roller pumps that are designed to screw together in series.

Anywhere from one to three pumps can be used at once. Pumps can be mounted or dismounted in minutes. The drive shaft from each pump screws into the back end of the pump ahead of it. Henry Browning, inventor, has also patented a new screw-on pto coupler to drive the lead pump.

"We designed these pumps for use on our own farm. We raise over 2,000 acres of cotton and needed a way to apply more than one chemical in one trip over the field," says Browning who farms near Valdosta, Georgia. "Before we designed these pumps, we had to make three trips to band fertilizer, apply herbicides and spray a fungicide over the top of the growing crop. Now we do it all in one trip."

Browning says the triple pump set-up saves money in several ways. "It cuts fuel use, reduces wear and tear on equipment, saves labor, and



Each pump screws into the pump ahead of it and mounts on a heavy-duty bracket.

cuts fertilizer costs by making it economical to band fertilizer to existing crops while performing other field chores," he explains.

Each pump is rated at 22 gal. per min., with a maximum 300 psi capacity. They can be used individually or in gangs of 2 or 3. The pumps, specially manufactured for Browning by Hypro sell for \$140 each. Browning is looking for dealers.

For more information, contact: FARM SHOW Followup, Shaft Master, Inc., Henry Browning, P.O. Box 1065, Valdosta, Ga. 31603 (ph 912 247-6575).

"perfume" masking agents, and aeration with only partial success. Then he heard that Sterling Industrial was installing a new odor control system at a sewage disposal plant for a nearby community. Sterling worked with the farmer to custom-design a system that solved the problem.

The Sterling system consists of an automatic pump that sprays chemicals into the air through as many as 10 spray nozzles spaced around a slurry tank or lagoon. The specially mixed chemicals interact with the smells to totally neutralize the odors.

"It doesn't just cover up the smell. It gets rid of it by scientifically combining molecules from two dissimilar odors that neutralize each other. Our research scientists tailor each chemical to the particular odor we're trying to eliminate," says marketing controller Pauline Rigg.

The Sterling system works automatically. It can be hooked up to an electronic wind vane which will activate the system only when the wind blows toward town or neighbors. The company says that under most situations they can eliminate 95% of all odor.

The first farm odor control system for the English farmer cost about \$7,500 with an estimated running cost of \$15 per week. It has 10 spray nozzles, four on the corners of the dairy barn and 6 around the slurry tank. The nozzles spray a mixture of two chemicals into the air whenever slurry is being hauled or agitated and the wind is blowing toward town.

For more information, contact: FARM SHOW Followup, Sterling-Winthrop House, Onslow Street, Guildford, Surrey, GU1 4YS England (ph 0483 505515).