

**MAKE SAFE LEFT HAND TURNS
WHEN PULLING WAGONS, EQUIPMENT**

New Tractor, Combine "Side View" Mirror

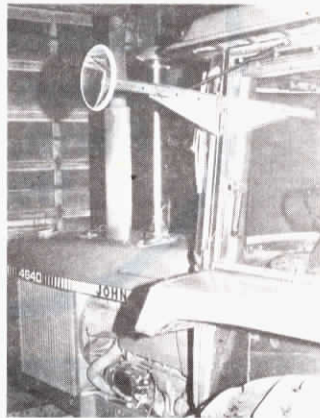
"It gives you security on the road and the safety of knowing what's behind you. You'll wonder how you got along without it," says M.W. Mulder, of K & M Manufacturing, about the company's new side view mirror for tractors and combines.

The 8-in. convex mirror extends out from the left side of the tractor cab from 18 to 24 in. on a bracket that fits the mirror bracket on Deere cabs and installs by drilling three holes on other makes.

"There is another model on the market which uses the original mirror mounted on a 36-in. long bracket. Because we use a convex mirror which widens the angle of view, we don't have to go out so far," says Mulder. "This eliminates problems getting into buildings or around other equipment. Two plastic knobs are all you have to remove to take off the K & M mirror.

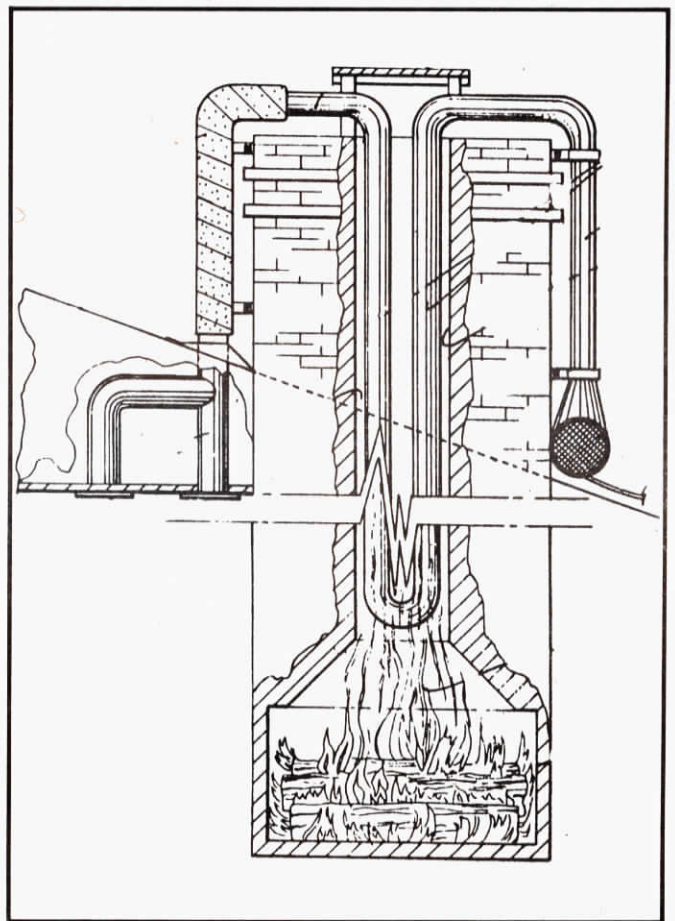
The new mirror sells for \$40.

For more information, contact:



Convex design keeps new mirror closer to cab.

FARM SHOW Followup, K & M Manufacturing, Renville, Minn. 56284 (ph toll-free 800-328-1752. In Minn., call 800-992-1702).



Heat Saver captures escaping heat in the chimney and blows it back into the house through the roof.

SYSTEM COLLECTS WASTED HEAT

Chimney Heat Saver Cuts Fuel Bill 60%

Leonard Base, of Kingman, Kan., figures he cut more than 60% off his heat bill last winter with a simple device that captures "waste heat" in the chimney and blows it back into the house.

His new chimney heat saver consists of a length of 4-in. pipe formed in a U-shape and slipped 13 ft. down into the chimney. A fan outside the chimney blows air down into the pipe, which reaches almost to the fireplace, and back up the other side.

"The device not only reclaims much of the heat leaving the house through the chimney, but by forcing air into the house, it also pressurizes the house so that cold air isn't drawn into the house through cracks, crevices and other openings," says Base.

Base used automobile exhaust pipe to build the prototype he's had operating in his house for the past three years and has now patented. The Base family has used a standard fireplace to heat their 2,300 sq. ft. home since installing the heat saver. They run their electric furnace only at night.

The device uses a small 5-in. dia. fan to move the air down through the

chimney and back up before going through more than 20 ft. of pipe to an inlet into the house. Base says the air could enter the house anywhere in one or more locations. The small fan, he says, moves more than enough air for the system.

The chimney on the Base house is 12-in. square on the outside. Base says the device would work on smaller or larger chimneys by adapting size of the pipe to size of the chimney opening.

Key to the success of the device is the amount of heat escaping up the chimney. "Even with a small fire in the fireplace, very warm air blows into the house from the system," notes Base. "Any gas, oil, or wood furnace or stove that is losing warm air up the chimney could benefit."

Base says he spent about \$135 to build his heat saver. He'd like to compare notes with anyone interested in manufacturing and marketing the device.

For more information, contact: FARM SHOW Followup, L.C. Base, Rt. 3, Box 123, Kingman, Kan. 67068 (ph 316 532-2648).

KEEPS WATER FLOWING AT NO COST

"No Energy" Waterer Heats from Underground

"The earth's temperature at 12 ft. below the surface stays at 50 to 60° even during the coldest months of the year. We've harnessed that heat for our new hog waterers," says Virgil R. Marek, of Agri Energy Tek, Belle Plaine, Iowa, manufacturer of the first-of-its-kind "no energy" Terra Temp geothermal livestock waterer.

Terra Temp waterers feature a closed loop system filled with a freon-type liquid gas sealed in a heat delivery tube that extends 12 ft. directly below a two-nipple waterer. At the bottom of the tube the liquid is heated by the earth's temperature. This causes it to gasify, rising to a heat exchanger in the waterer aboveground. The heat in the gas is "scrubbed" off, causing it to condense and drop back to the 12-ft. level at the bottom of the tube.

"The system is permanently sealed and completely separate from the water system," Marek told FARM SHOW. "It will work continuously without supervision and with absolutely no cost to operate."

Outside air temperature regulates the system in that the system is activated when outside temperatures fall below the ground temperature in the 12-ft. depth.

Waterers are installed by boring a 12-ft. hole for the heat delivery tube and running a waterline to the wa-



Waterer has "closed loop" extending 12 ft. underground.

terer below the frost line. The waterer can be used anywhere water freezing is a problem.

The company has so far introduced a two-nipple waterer and plans to introduce a four-nipple unit soon. A bowl type cattle waterer is on the drawing board and is slated for production by next summer.

Terra Temp waterers sell for \$600 installed, or \$500 if you do it yourself.

For more information, contact: FARM SHOW Followup, Agri Energy Tek, Inc. P.O. Box 233, Belle Plaine, Iowa 52208 (ph 319 444-2180).