



Angled spear is out of way and can be left on when using the bucket for loading snow, silage or manure.

DOESN'T INTERFERE WHEN USING THE BUCKET FOR OTHER JOBS

Bale Spear For Tractor Loaders

"Unlike other bale spears for tractor loaders, this one leaves the bucket open for other uses," says Iowa farmer Ralph Hecht, Westfield, of his "angled spear".

"There's no mounting framework to take up space inside the bucket. And the spear itself mounts at an upward angle — enough so you don't have to remove it when using the loader for normal snow, silage or manure work," explains Hecht. "It's easy to remove — just pull one pin and it slips right out."

Hecht uses a 2 ft. long angle iron to spread weight of the bale along the top of the bucket and thus avoid bending it. "The angle of the spear is easily adjusted to adapt it to most makes of tractor loaders," notes Hecht.

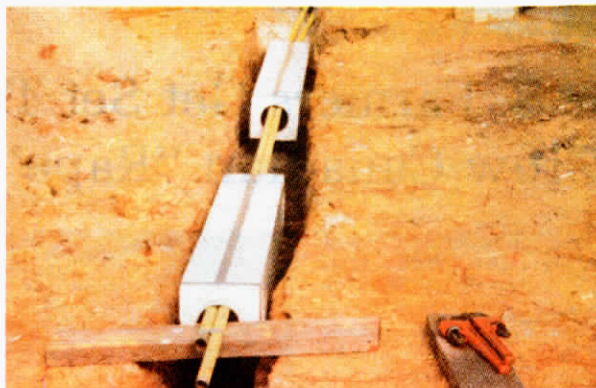
Sells for \$150, including mounting bracket.

Contact: FARM SHOW Followup Ralph Hecht, Rt. 1, Westfield, Iowa 51062 (ph 712 568-2851).



Above photo: Angle iron spreads weight along top of bucket to avoid bending. Spear (7 ft. long, 2 in. in dia.) removes by pulling one pin.

Photo on right: Angled spear has enough downward tilt to drop off the bale.



Hot water, such as between an outside furnace and farm home, can be piped long distances with very little temperature drop when threaded through Underground Insulated Conduit® at a depth of less than 18 in., as shown above.

KEEPS WATER PIPES FROM FREEZING

New "Warm Up" Jacket For Underground Pipes

Water pipes don't have to be buried below frost if they're protected with Underground Insulated Conduit®, an exciting new energy saver developed by Salvatore Reale, president of A-I Drafting and Design, Preston, Md.

Suppose, for example, you're running water pipe through an area where, because of trees, rocks or other obstructions, it's difficult to dig a deep "below frost" trench. Thanks to Salvatore's UIC (Underground Insulated Conduit®), you only have to dig a trench 18 in. deep.

The system features 5 ft. lengths of styrofoam insulation which slip together at the ends and are joined with a special glue-sealant. Individual sections of styrofoam conduit are 18 in. square with a 4 in. dia. hole in the center. Metal or plastic pipes are then placed inside the insulated "jacket". Special metal hangers keep the pipes, or pipe, suspended in the center of the 4 in. dia. opening.

In addition to underground frost protection for water pipes, Salvatore feels his UIC system has many other on-farm and industrial uses.

"Several companies have introduced outside furnaces which use hot water, circulated through under-

ground pipes, to heat farm homes, livestock barns and other buildings," Salvatore points out. "By running the pipe through Underground Insulated Conduit®, hot water can be piped long distances with very little temperature drop."

Salvatore notes that his UIC system could also be used to keep hot water hot — or to keep cold water from freezing — inside buildings where freezing is a problem, such as in crawl spaces.

Another advantage is that long underground sections of plastic pipe threaded through Underground Insulated Conduit® can expand and contract without stress since the pipe isn't in direct contact with soil.

Salvatore hopes to have his Underground Insulated Conduit® in commercial production later this summer. Meanwhile, he'd be happy to "compare notes" with interested FARM SHOW readers on custom-designed on-farm applications of the system.

For more information, contact: FARM SHOW Followup, A-I Drafting & Design, Salvatore Reale, President, Rt. 1, Box 198, Preston, Md. 21655 (ph 301 673-7200).

