



New 3 pt. hitch cart "works great" for moving big round bales.



Ground-driven pto turns 3 pt. rotary mower at 540 rpms when horses move at 3 mph.

"FIRST NEW PATENT FOR DRAFT HORSE EQUIPMENT IN 50 YEARS"

Hitch Cart Lets Horses Pull Pto-Drive Equipment

"You can't find horse-drawn equipment anymore," laments Elmo Reed, Benton Kent. With this in mind, he designed and built the world's first horse-drawn 3-pt. hitch and pto unit. Billed as the first new patent for draft horses in 50 years, it enables horse owners to use 3-pt. and pto-driven equipment built for small tractors.

The hitch cart's 3-pt. accepts Cat. 1 tractor equipment. The ground driven pto turns at 540 rpm (traveling at 3 mph) and features two No. 60 chains driven off each wheel. The chains run to a differential. A V-belt connects the differential to a right angle gearbox.

Several dozen small-tractor implements are available commercially (new or used) for mounting on the new horse-drawn hitch cart, including 5-ft. sickle mowers, 4-ft. rotary mowers, manure spreaders and fertilizer spreaders. The 3-pt.'s hydraulic pump can be powered manually or by a 12-V. battery.

The 3-pt. hitch cart sells for \$1,495, and the bolt-on pto unit for right at \$1,300.

For more information, contact: FARM SHOW Followup, Elmo Reed, R.R. 3, Benton, Kent. 42025 (ph 502 527-1087).

SIMPLE CABLE DESIGN

New "Coverboard" Seals Nitrogen Behind Shanks

Michigan fertilizer dealer Eric Jorgensen has come up with a simple new way to seal anhydrous ammonia to the ground behind injector shanks.

"Coverboards" consist simply of a heavy steel cable and a curved metal plate with a gap at the bottom for soil and trash to pass through. It attaches to the rear of the applicator knife and depth is adjustable simply by changing the angle of the cable. If you want more penetration you just turn down the angle of the cable.

"They have tremendous penetration, even in hard ground, and they'll last 3 to 5 times as long as paddle or disc coulters type coverers commonly used to seal anhydrous," says Jorgensen. "It pulls dirt in from both sides of the slit and after it's passed it's hard to see where the slit was."

Coverboards can also be used behind cultivators used to inject nitrogen. "Farmers who run ridge-till cultivators love it. It's particularly good to sidedress nitrogen because the soil is often harder and more difficult to cover. It not only seals in the nitrogen

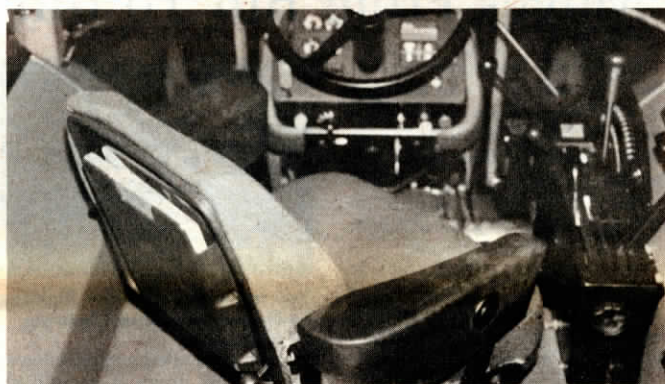


"Coverboards" are made of steel cable and curved metal plate.

but keeps it from escaping and burning leaves."

Life expectancy of units is 8,000 to 10,000 acres. They're made with solid core 3/8-in. dia. steel cable and heavy 10 ga. steel. They sell for \$25 apiece. Jorgensen's looking for distributors.

For more information, contact: FARM SHOW Followup, Eric Jorgensen, Jorgensen Elevator, 2214 South Dietz Rd., Williamston, Mich. 48895 (ph 517 655-4296 or 517 665-1375).



Seat rotates freely to right or left.

MOUNTS BENEATH SEAT PEDESTAL

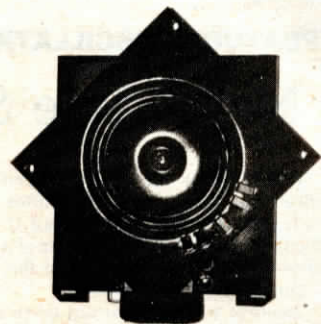
New Tractor Seat Swivel Saves Your Achin' Neck

Saskatchewan grain farmer Arlen Manske, tired of continuously looking back over his shoulder to see equipment, designed and built a seat swivel for his Deere 2-WD tractor.

"Even though there's not a lot of room in Deere cabs, there's plenty of room to freely rotate the seat from side to side. Your knee may hit the console but you can still turn," he says.

Because of the interest in his home-built swivel, Manske decided to put it on the market. At present, it fits only Deere 30 Series standard deluxe cushion seats and the 40 and 50 Series hydraulic suspension seat.

The free-rolling swivel has five locking positions to the left or right and mounts directly beneath the seat pedestal in just a few minutes. Manske hopes to fit other tractor models, as well as combines and other self-propelled equipment, in the near future. He notes that the swivel can also be used under chairs, tables, lazy susans, and so on. It sells for \$115



Seat swivel has 5 locking positions to left or right.

(U.S.).

For more information, contact: FARM SHOW Followup, Apollo Industries, Box 725, Bismark, N. Dak. 58502 (ph 701 255-1221).

In Canada, contact: FARM SHOW Followup, Apollo Distributing, P.O. Box 528, White City, Sask. SOG 5B0 (ph 306 525-9516).