

VERTICALLY SPINNING DISCS

New-Style Electric Centrifugal Nozzles

They're calling it the most revolutionary-spray nozzle in years — a vertically spinning disc nozzle that cuts chemical costs, get chemicals lower to the ground and gets them there faster.

The new nozzle, developed by Tecnomia in Epernay, France, won the gold medal as the most innovative new invention at the 1981 SIMA farm show in Paris. A Tecnomia spokesman told FARM SHOW that each rotating disc is powered by a small electric motor.

"Chemical is fed into the center of the disc and then thrown out by centrifugal force. However, chemical is only thrown out at a 140° angle to the ground. Chemical at the top of the disc is thrown back to the spray tank and recycled through the system," a company spokesman explains. "With this system, spray is directed at high velocity in such a way that it penetrates foliage to get to the base of crops. It also keeps chemicals from blowing away in the wind."



Unlike any other on the market, Tecnomia's new spray nozzle spins vertically to throw chemical out in a 140° arc.

Other advantages of the design include more uniform droplets because of the pulverizing action of the discs, using less diluted chemical and therefore having to carry less water. And, unlike conventional nozzles, the Tecnomia nozzle won't plug up.

For more information, contact: FARM SHOW Followup, Tecnomia, BP 195, Epernay, France (ph 26 51 99 99).

TRANSMITS SIGNAL WHEN COW LIFTS TAIL TO BEGIN LABOR

New "Calf Detector" Signals Delivery Time

You'll never miss another calving if you equip your cows with a new birth detector invented by French farmer and engineer Rene Lorette.

"This detector is fool-proof and completely dependable. I feel it will revolutionize calving on dairy farms," Lorette told FARM SHOW.

The solid state transmitter and switch tied to the cow's tail is attached to a harness that straps across the cow's back. When the tail lifts as labor is beginning, the switch activates the transmitter which calls you to the barn.

"It's a delayed action so that if the cow only lifts her tail to defecate or urinate, it won't be activated. But, if the tail is held up for more than 100 seconds, the signal goes off," explains Lorette.

In some cases, he adds, the cow will not lift her tail. In that case, a lightweight plastic plate, also fastened to the tail, will be lifted as the calf emerges, setting off the alarm.

Two models are currently available. One is a "wireless" transmitter that sends a signal as far as 160 ft. away (in France, Lorette notes, they ran into licensing problems in sending signals further. In the U.S. and Canada, a stronger signal may be allowed). The other model is a low-voltage wire model that Lorette says



Rene Lorette with wooden display cow outfitted with his calving detector.

can transmit up to 12 miles away and can be installed in any barn.

The wire model sells for about \$470 for one sender and transmitter, and \$330 for each additional transmitter. The wireless model sells for about \$590, plus \$380 for each additional transmitter.

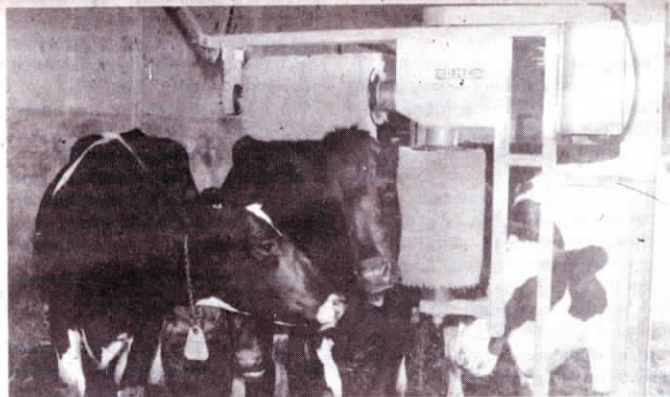
A model for horses is also available. It's a simple mercury switch that fastens across the animal's back. When she lays down, tilting the switch, the alarm is sounded.

For more information, contact: FARM SHOW Followup, Rene Lorette, Lorela, Fleville, 08250 France.

FARM SHOW

Best New Ideas From Europe

FARM SHOW editors cover all major shows in the United States, Canada and foreign countries to keep you and other readers posted on latest new products. Featured here are just a few "best of the show" ideas which caught Associate Editor Mark Newhall's eye at the recent 1981 SIMA show, the International Exhibition of Farm Machinery, in Paris, France, and at the Fieragricola in Verona, Italy. Mark notes that the SIMA show, widely recognized as the biggest farm show in the world, attracted an estimated 1 million people to its 1,800 exhibits from 30 different countries. The Fieragricola, one of four big Italian shows each year, attracted more than 500,000 people from 80 different countries to view 2,500 exhibits. In upcoming issues Mark will report on other exciting new products he learned about on his trip to France and Italy.



Cows quickly learn to "scrub up" on their own with the help of dry nylon brushes.

NO WATER NEEDED

Automatic "Cow Wash"

"Cows like to use it," says Giorgio Cantarella, sales representative for a new dry brush cow cleaner that helps combat disease in dairy barns by keeping cows clean.

Two stiff-bristled, nylon brushes are mounted at right angles to each other, with the bottom of the top brush set at about the average back height for the cow herd. A 220-V, three-phase electric motor spins the brushes against the cows, scrubbing off dirt and dust. It also gets rid of that occasional annoying itch.

"The animals quickly learn how to use the brush, and it can be turned on at certain times in the day, such as

milking, for them to use. Absolutely no wetting with water is necessary," says Cantarella. After a good brushing, cows may still have brown spots below the belly or on their lower legs, but their sides, back, head and neck come shiny clean, and with daily use, stay that way.

The brush can be installed against walls, along runways, or on a post in the open.

The brush sells for about \$950.

For more information, contact: FARM SHOW Followup, OMC, Via XXV April, 11, Correggio, Reggio Emilia, 42015 Italy (ph 0522 69 21 95).