



THE OHIO STATE UNIVERSITY

COLLEGE OF FOOD, AGRICULTURAL,
AND ENVIRONMENTAL SCIENCES

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News Release

Necessity meets invention

Piketon, Ohio – Roy Noel is a retired machinist that gained farming experience early in life on his grandfather's and uncle's farms. He bought and began operating his own farm in 1970.

Five years ago, Roy traded in an older tractor for a new 6230 John Deere and found out it had a hard-to-turn PTO shaft. When hooking the tractor up to the conditioner, baler, or rotary mower, it would take a half an hour to line up the splines.

As the old saying goes, "necessity is the mother of invention," and Roy's machinist background came in handy for this task. Noel states, "I designed a wrench that gives me the leverage I need to turn the tractor's PTO shaft."

Roy created a prototype (pictured on the left), and made an adjustment to create the final product (pictured on the right). Noel has a patent pending on the device.



Roy's PTO Wrench eliminates the aggravation of hooking up a PTO. It provides:

- Clean connection of PTO shaft...no more greasy hands
- Easy hook up...quick alignment of splines
- Additional leverage...eliminates the need for prying devices
- Speeds up connection of implements
- Tool is attached to remove easily

"The wrench lets me line up the splines in only a few seconds," Noel says. The wrench has a clevis-shaped mouth with a thumb screw that adjusts to grab a spline and set it in place. After the implement is hooked up, just loosen the thumb screw and slide the P.T.O. Tool off to the side.

Roy has had thirty of the shafts made and has given away three for testing. He also sent one to FARM SHOW to review. "I sold them through a local equipment dealer for \$24.95 each," says Noel. "If you have a free moving PTO shaft, you won't need it; but if yours is hard to turn, this

gives just the leverage needed.” Noel is not interested in continuing to manufacture the wrench, but would be happy to discuss selling the patent and all manufacturing rights.

For more information regarding no-cost confidential business counseling from Ohio State University South Centers Manufacturing and Technology Small Business Development Center, contact Joy Bauman at 740-289-2071 x111 or email bauman.67@osu.edu.

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