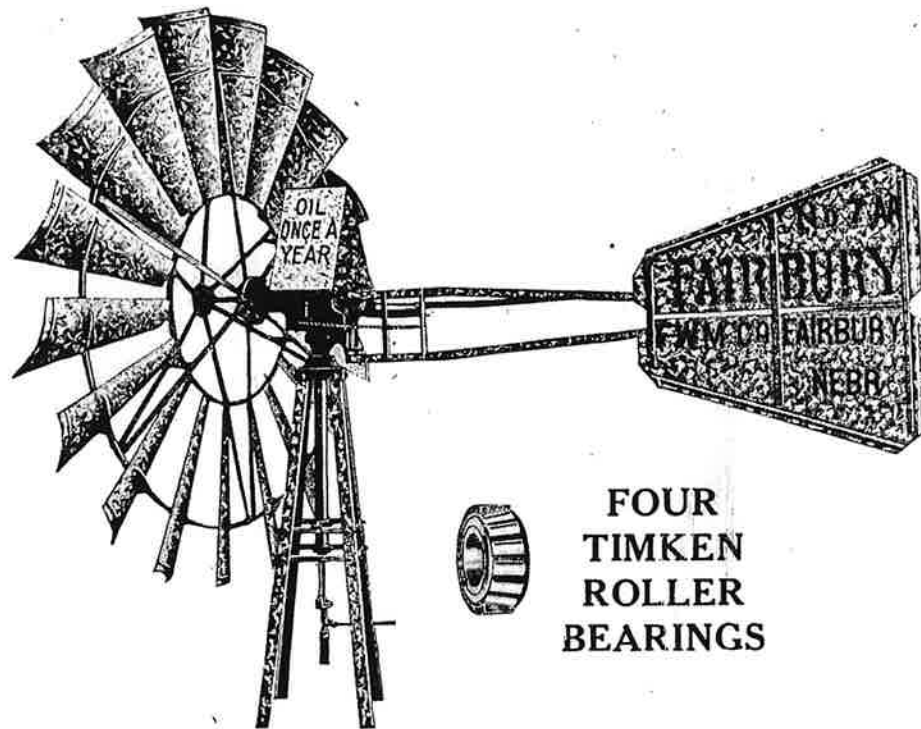


# THE FAIRBURY No. 7AA



**FOUR  
TIMKEN  
ROLLER  
BEARINGS**

The Fairbury No. 7-AA Windmill embodies all of the modern windmill improvements plus a great many patented exclusive features. These features make the Fairbury outstanding in the windmill field today.

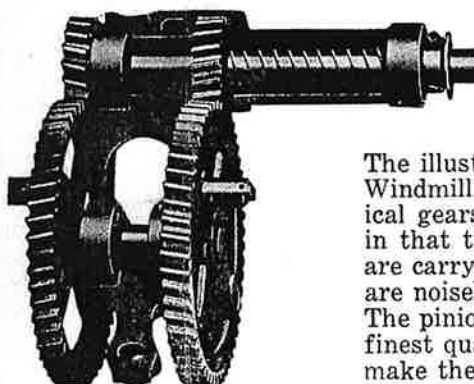
No other windmill on the market today is equipped with Helical Machine Cut Gears and Pinions; a patented feature exclusive to the Fairbury. The Helical Gear is a smoother and quieter running gear, having two teeth in mesh at all times. Another important patented feature of the Fairbury is the inclosed swivel—inside the engine, protected from all wearing elements.

Friction has been reduced to a minimum by the use of four Timken Tapered Roller Bear-

ings. It is an established fact that the Timken is the finest bearing made. For this reason, Fairbury Engineers chose the Timken.

The lubricating system of the Fairbury is simple but efficient. There are no oil pumps, rings, or trouble making devices. The revolutions of the gears and channel guides carry the oil to every point where it is needed. This insures long life and smoothness of operation.

All in all, the Fairbury represents all that is finer in windmill construction. It is a windmill built for service and ultimate satisfaction for the owner. For a more detailed description of the Fairbury, you are invited to read the following pages of this catalog.



## HELICAL GEARS

The illustration to the left shows the gear assembly of the Fairbury Windmill. You will note that the gears are spiral or helical cut. Helical gears have an advantage over spur gears, or straight cut gears in that two teeth are always in mesh at all times. Thus, two teeth are carrying the load where the spur gear has but one. Helical gears are noiseless, having no back lash or chatter. The pinions are cut from solid steel, while the gears are cut from the finest quality of semi-steel. It is a known fact that these two metals make the best gear wearing surface.

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