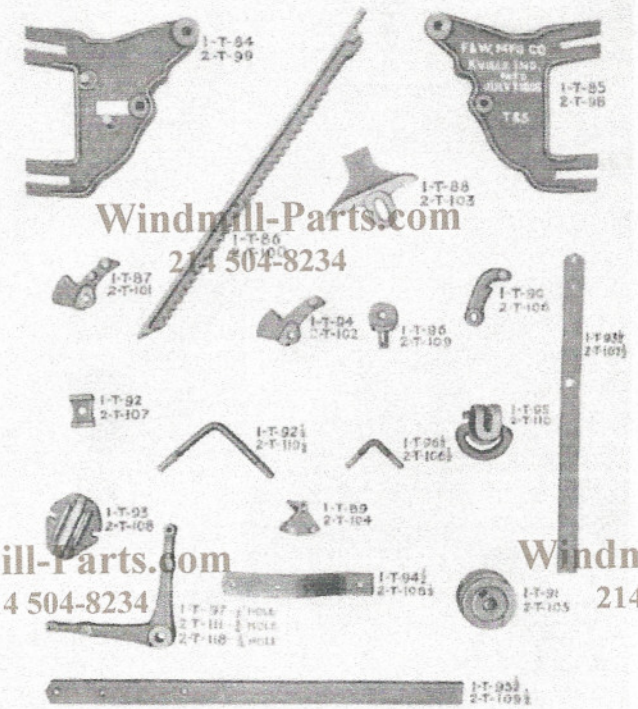
# Repairs

## For Fig. 666, Hoosier Ratchet Regulator






| Parts | Nos. 1 and 3 Pattern | Nos. 1 and 3 Price | Nos. 2 and 4 Pattern | Nos. 2 and 4 Price |
|---|---|---|---|---|
| Right-Hand Frame | T84 | $1.00 | T99 | $1.65 |
| Left-Hand Frame | T85 | 1.00 | T98 | 1.65 |
| Rack | T86 | .75 | T100 | 1.65 |
| Upper Dog | T87 | .15 | T101 | .20 |
| Shifter for Dog | T88 | .15 | T103 | .20 |
| Shifter Weight | T89 | .20 | T104 | .30 |
| Pawl | T90 | .15 | T106 | .15 |
| Float Lever Weight | T91 | .50 | T105 | .50 |
| Washer for Lever | T92 | .15 | T107 | .15 |
| L-Bolt, $\frac{3}{8}$x4-in | T92½ | .15 | | |
| Pump Rod Connection | T93 | .15 | T108 | .45 |
| Weight Lever | T93½ | .25 | T107½ | .30 |
| Lower Dog | T94 | .15 | T102 | .20 |
| Pump Rod Lever Bracket | T94½ | .25 | T108½ | .25 |
| Triangle Swivel | T95 | .15 | T110 | .40 |
| Pump Rod Lever | T95½ | .30 | T109½ | .60 |
| Triangle Bearing | T96 | .15 | T109 | .15 |
| L-Bolt, $\frac{5}{8}$x2-in | T96½ | .15 | | |
| Triangle | T97—½-in. | .20 | T111—¾-in. | .25 |
| Triangle | | | T118—⅞-in. | .25 |
| L-Bolt, $\frac{5}{8}$x3½-in | | | T106½ | .15 |
| L-Bolt, $\frac{7}{16}$x4¾-in | | | T110½ | .20 |
| And the following when used with Models 12 and 15 Windmills | No. 3 | | No. 4 | |
| Weight | T121 | $1.35 | T124 | $2.40 |
| Sheave Bracket | T123 | .75 | T123 | .75 |
| Sheave Bracket | AO12½ | .25 | AO12½ | .25 |
| Rack | T127 | 1.00 | T122 | 3.00 |
| Pump Rod Connection, with Fig. 665 | T128 | .30 | T129 | .50 |
| Hook | ½-in. | .25 | ½-in. | .30 |
| Chain | 30-in. | .75 | 45-in. | 1.00 |

# HOOSIER WINDMILL RATCHET REGULATOR

**(Patented July 7, 1903, U. S. A.)**



FIGURE 666, Hoosier Windmill Ratchet Regulator, for automatically controlling the windmill and tank supply. This regulator saves the mill from unnecessary wear and prevents a waste of water, as the mill is automatically thrown out of gear when the tank is pumped full of water, and as the water level in tank lowers, the weighted float releases the regulator, throwing the mill in gear and pumping is resumed.

Fig. 666—Connected Ready for Operation

The regulator is attached to the angle corner post of tower with special L-bolts securely clamped over the angle; it requires no frame to support it and it will not settle out of place. The triangle connection may be attached to the angle corner post below the regulator, or connected to the tower band as shown in cut at left.

The connection to pump rod is one of the most practical, as it can be shifted up or down, and is not necessary to bore holes in the pump rod. The regulator can be easily shifted on the angle corner post. The trip wire connection is very effective, being in line with the tank regardless of the tank's location. No delicate parts to weaken or break. This is a regulator that needs no attention and does its work to perfection.

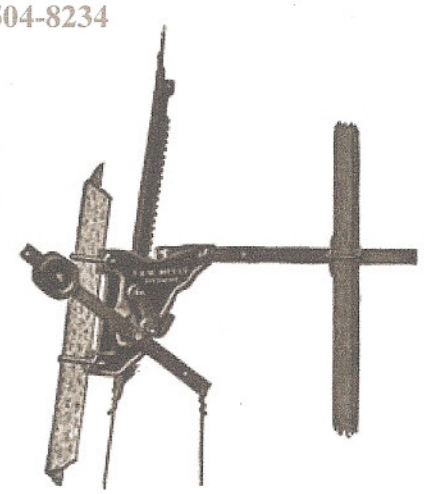


Fig. 666

This regulator is also designed to be used in connection with Fig. 1291 Hoosier Automatic Diaphragm Controller, for both the open tank and pneumatic tank systems.

**For Star Windmills Model 24**

| No. | Size | Weight, Pounds | Price |
|---|---|---|---|
| 1 | For 10-foot Mills and smaller | 55 | $ 6.65 |
| 2 | For 12- and 15-foot Mills | 71 | 10.70 |

The Hoosier Ratchet Regulator can be used with any make windmill.

For repairs, see page 113.

## TRIANGLES

Fig. 659

FIGURE 659, Triangles, are used for transmitting motion of windmill pump rod to the pump, when the pump is located over 20 feet from the windmill.

| | Weight, Pounds | Price |
|---|---|---|
| Fig. 659, per pair, without wire | 56 | $0.95 |
| No. 6 Galvanized Steel Wire, per 100 feet | 10 | .85 |

For repairs, see page 136.

## ROCKER SHAFT

Fig. 660

FIGURE 660, Rocker Shaft with arms and boxes. A windmill cannot always be set directly over the pump, and when the distance between them is not over 20 feet, the rocker shaft transmits the windmill pump rod motion to the pump.

| | Weight, Pounds | Price |
|---|---|---|
| Fig. 660, Arms and Boxes, only, per set | 50 | $4.60 |
| Shaft—1¼-inch extra strong pipe, per foot | 3 | .33 |

For repairs, see page 136.