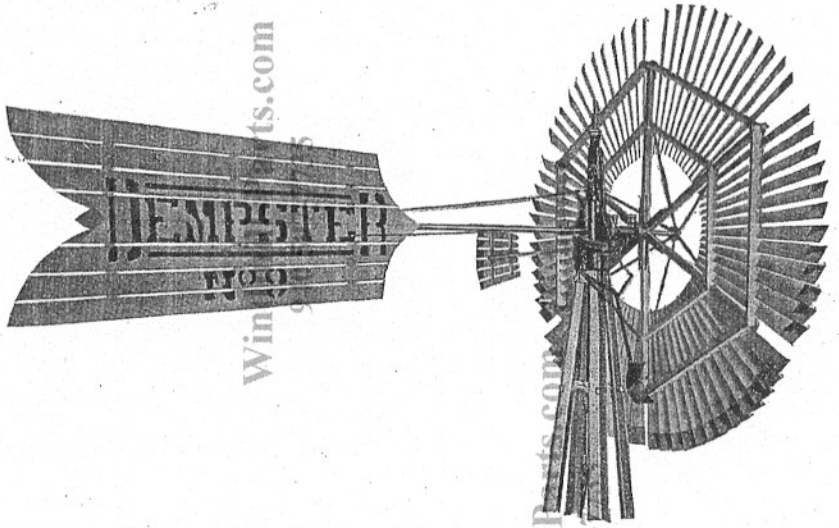
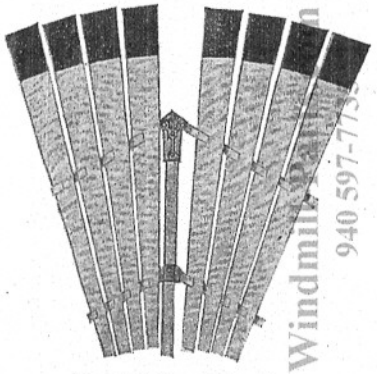
DEMPSTER NO. 9 SOLID WHEEL MILL

This mill is built with the idea of securing the greatest possible strength and durability. There is no stronger or better wood mill made. The main frame is made of the best gray iron casting, reinforced to withstand the maxi-



mum strain. The wood used is carefully selected, shaped to resist greatest strain without being heavy and cumbersome. The large wheel spider and face plate are driven to place and immovably attached to the main shaft by long machined steel drive keys.

THE BLADES IN THE WHEEL SECTIONS



No. 9 Wheel Section

of our No. 9 are set in thick straight girts, which provide an end brace and counteract the collapsing tendency of the wheel. These straight girts are locked to the wheel arm by iron clips and bolts, which completely cover and protect the joints, and prevent the sections from working loose.

THE RUDDER VANE

is made extra long, and is set in such a that it responds to the slightest breeze the mill steadily in position and keeps it facing the wind. This Vane is exceptionally light and strong, and is well trussed with wrought steel rods, supported at the top and side.

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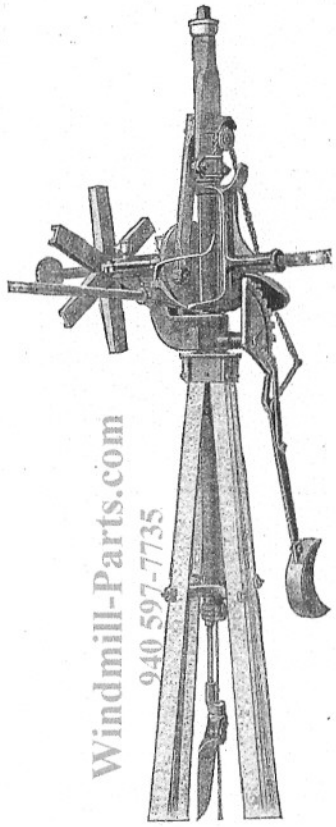

THE REGULATING DEVICE

consists of a set of eccentric gears, a governor weight and a side Vane, which projects slightly beyond the rim of the wind wheel. When the velocity of the wheel exceeds the speed required for pumping the pressure on the side Vane forces the edge of the wheel and small Vane around parallel with the rudder vane, at the same time raising the bar bearing the governor weight. As the wind decreases in force the governor weight forces the mill back again to face the wind. This simple arrangement automatically governs our No. 9 mill in any wind.

To adjust the speed of the wheel, move the governor weight up or down the bar and the side vane in or out. For heavy work pull the side vane in and slide the weight down and reverse these directions for light work.

THE MAIN PIVOT

and the small vane and rudder bars are made of tubular steel, a combination of maximum strength and light weight. Bearing of main shaft is high grade babbitt and is adjustable for taking up wear.

THE WRIST PINS

are made of cold rolled steel and are re-machined so as to produce exact duplicates.

THE PITMAN

is made of rock maple, the most durable material available, strapped and bolted at the ends. Pitman bar is of steel, the upper portion being square. The upper guide, in which the square end of the pitman works is extremely long and is lined with a specially prepared babbitt metal.

The **DEMPSTER** No. 9 is without question one of the very best solid wheel direct stroke wood mills built, and its years of service have proven it a great favorite in many sections of the country.

Dempster No. 9 is Made in Following Sizes:

Size	Length of Stroke	No. Sections	Weight
10 feet	4, 5, 7 and 8 inch	6	540 lbs.
12 feet	5, 6, 8 and 10 inch	8	740 lbs.
14 feet	6, 7, 8 and 10 inch	8	1075 lbs.