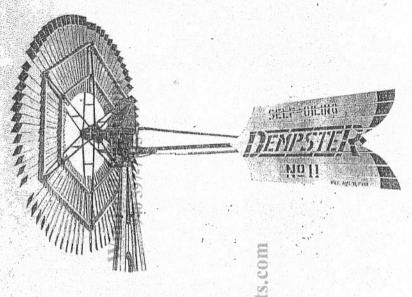
Windmill-Parts.com



The Dempster Wood Wheel is made in standard sizes, of clear grain selected material. It is very strong and substantial aid is braced with steel arms, which are kept absolutely tight by lock washers. The wheel slats are set in deep slots in the wheel rib. They are nailed securely and will not come tense, even during severe storms. The wheel arms are made of steel, strongly trussed and braced. The wheel is painted two coars of best white lead. Arms and other metal parts are painted with black, weather proof paint. The ends of the slats are tipped with a broad band of red. The vanc stem is steel angle and the vanc proper is built up of clear grained material, bolted to the steel angle. The vane is finished in white, with a red tip. The wood wheel and tane can be removed and the steel wheel and vane substituted without any other change.

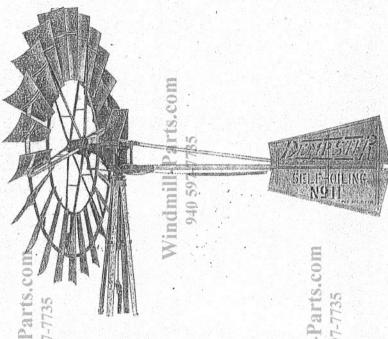
Dempster No. 11 wood mill is made in the following sizes:

	1	arteriar operation of particles and management acting to a minimal contract of the contract of	,		
Size	Bength of Stroke	No Sections	Weight		
10 feet 12 feet 14 feet	514 and 714 inch 514 and 714 inch 714 and 10 inch	6 8 8	495 604 820		

Licensed under Bret Catent granted July 31st 1966.

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DEMPSTER No. 11 SELF-OILING STEEL WINDMILL



The Dempster Steel Wheel comes in standard sizes. All parts are heavily galvanized after machine work is done so that when assembled they are rust-proof. There are no unprotected raw edges where water can get it and start rust. The Engine and other parts not protected by galvanizing are painted with weather-proof paint.

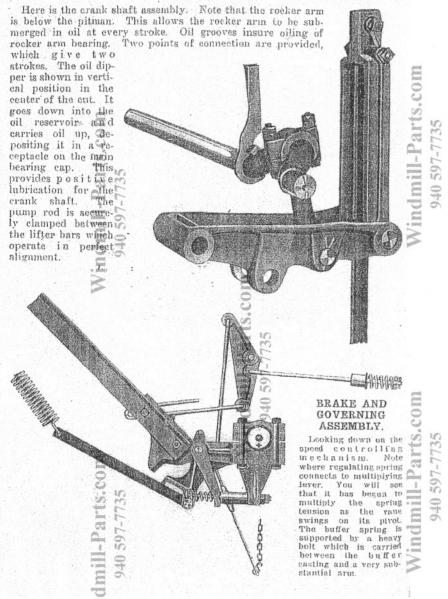
Note the heavy trussed arms which give the wheel its great strength.

The engine and all parts except the wind wheel and vane are exactly the same as used with our Wood Wheel.

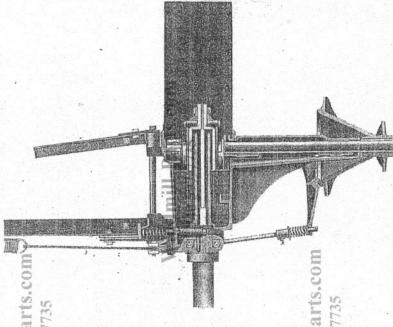
Dempster No. 11 steel mill is made in the following sizes.

Size		Length of Stroke		No	No Sections		Weight		
8 fe 10 fe 12 fe 14 fe	et et	53 53	and 7	1/2 frech	And the second of the second o	6 6 8		490	lbs. lbs. lbs. lbs.

Licensed under Brett patent granted July 31st 1906



DEMPSTER NO. 11 SELF-OILING WINDMILL



This cut shows how the wheel spider extends over the outer bearing excluding any possibility of water entering the oil reservoir from this opening.

This view of the mill shows part of the main frame cut away, showing the oil channels above and below the wheel shaft, also the self-aligning main bearings. The spring on the brake rod allows the brake to be applied gently, but firmly and compensates for any wear of the shoe or the spider. Note the construction of the vane hinges and method of attaching to main frame.

You will also note the pipe stem is clamped to main frame, as shown in cut, with a heavy clamp and two-large double nutted bolts.



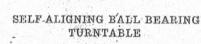
CROSS SECTION VIEW

This cross sectional view of the main frame taken through the middle main bearing, shows channel above the shaft through which the oil flows to the bearings, and the channel below, through which it returns to the main oil reservoir

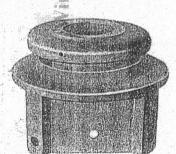
Also note the heavy ribs which make the main easting very strong.

DEMPSTER NO. 11 SELF-OILING WINDMILL

The brake on the Dempster No. 11 acts effectively and with certainty when it is needed but causes no friction or interference with the smooth operation of the mill. This brake is the shoe type and when properly adjusted never needs my further attention. The brake on this mill is only applied by means of the pull out lever at the bettom of the tower and is not applied by the changing positions of the wheel or vane as the windmill continues its work. In this way, there is absolutely no chance for the brake dragging, thereby decreasing the power of the mill.



"The ents on this page show the Dempster Self-Aligning, Ball Bearing Turntable. It is shown assembled at the right, while at the left the two races and balls are separated from the tower can proper. The races are made of special cast iron, ground to a perfect surface. The lower race has a spherical surface, which fits into a similar one on the tower cap. This insores the even distribution of weight on all the balls. The lips of the top race extend down inside and outside the lower race, forming a weather-proof shield.

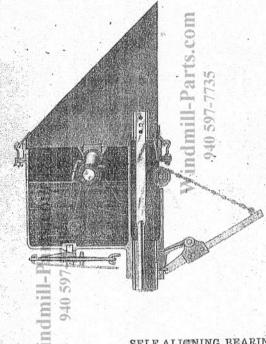


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DEMPSTER

DEMPSTER NO. 11 SELF OILING WINDMILL



PHANTOM CUT OF ENGINE

End view showing oil reservoir with rocker arm and pitman immersed in ail:

Cut shows just how the mill is oiled. The dipper revolves with the crank shaft, collects the oil on the upward movement and pours it into the oil cup at the inner end of the main bearing cap. This cap has a channel which feeds the of to the bearings, in this channel is an oil spreader which collects the oil on Top of the shaft producing a constant flow of oil to the main bearings. Wo

SELF-ALIGNING BEARINGS

Here are the three self-aligning removable crank shaft bearings. These bearings are of babbitt metal poured into east iron backs which conforms to approved engincering practice and will be found in high class automobiles-Note the "V" notches that stripthe oil from the shaft after is has been used. It then returns to the reservoir. No possibility of oil escaping out along the main shaft,

