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NEW ZEALAND.

"THE PATENTS, DESIGNS, AND TRADE-MARKS ACT, 1889."

COMPLETE SPECIFICATION
FOR LETTERS PATENT.

Where provisional specification has been left, quote No. and date of acceptance.
No.:
Date:

(*) Here insert title of invention as in application.

(*) Improvements in Wind mills

(*) "I" or "We," followed by name in full, address, and calling of applicant or applicants, as in application.

(*) I Thomas Dennis of Lichfield Street Christchurch Provincial District of Canterbury New Zealand Engineer

(*) "My" or "our." (*) See above.

do hereby declare the nature of (*) My invention for (*) Improvements in windmills

and in what manner the same is to be performed, to be particularly described and ascertained in and by the following statement:

(d) Here describe the invention at length.

(d) In a wind mill with the Tail or Rudder swinging upon a bolt or joint, and not upon the Main Casting or pipe as a centre, a difficulty is to

guide the chain or rope that pulls the wind mill out of gear in a easy manner to the centre of the wind Mill and thence to the ground, and at the same time the chain or rope, not to be twisted round the wind mill or the frame or rods that connect the wind mill and the machinery that the Wind Mill moves. Wind mills as made by me previous are as follows, The tail casting A Fig I with a lever B and links C and a pulley D with a chain or rope from lever B over pulley D and thence to the ground this was troublesome as sometimes the rope or chain became entangled with the wind mill frame and any obstacle that interfered with the revolving of the wind mill on the centre of its frame as the wind changed the position of the wind mill, Now what I desire to protect by letters patent is the lengthening of lever B Fig 2 and the guide or pulley X which may be upon the tail casting, or the main wind mill casting or frame, to direct the chain or rope E into a tubular pin Y on which the tail or rudder of the wind mill swings and the guides or pulleys Z Z to lead the chain or rope E to the inside of the Main casting or pipe that supports the wind mill

(*) See last page

(*) "I" or "we."

(*) See above.

(†) Here state distinctly the features of novelty claimed

(†) Signature the applicant applicants.

NOTE.—If the description cannot be contained in the space provided, as many sheets of wide-ruled foolscap paper as may be required may be inserted between this and the sheet containing the claim.

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mill out
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the same
ground
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at the Wind
by me
g A Fig I
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over pulley
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obstacle that
nd mill or
changed
what I desire
g of lever B
may be upon
e casting or
into a tubular
the wind mill
Z Z to lead
the Main
Wind mill

sheets of wide-ruled foolscap
laim.

(*) See last page.

(*) "I" or "we."

(*) See above.

(†) Here state distinctly the features of novelty claimed

Having now particularly described and ascertained the nature of (*) the said invention, and in what manner the same is to be performed, (*) I declare that what (*) I claim is:—

(†) 1st In a wind mill a tubular pin upon which the tail or rudder swings. 2d The combination of a guide or pulley to direct the chain or rope of the pulling out-gear of a wind mill into a tubular pin upon which the tail or rudder swings. 3d The combination of a weighted lever to pull a windmill into the wind with an extension to allow a chain or rope passing over to be joined thereto such chain or rope a guide or pulley thence through a tubular pin upon which the tail or rudder swings. 4th The combination of guides or pulleys to direct the rope or chain of the pulling out-gear of a wind mill after it has passed through a tubular centre pin to the inside of the main casting or tube that supports the windmill

Dated this 9th day of July A.D. 1894.

(*) Thomas Davis
Liverpool

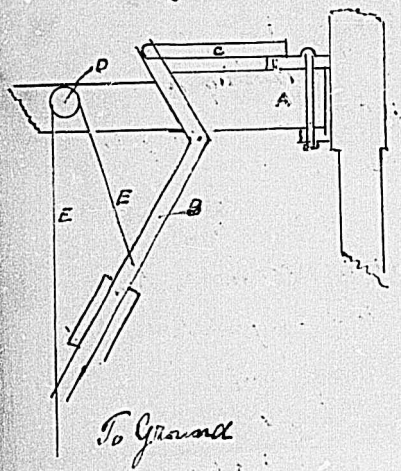
(*) Signature of the applicant or applicants.

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Improvements on Windmills by Thomas Danks

Fig 1



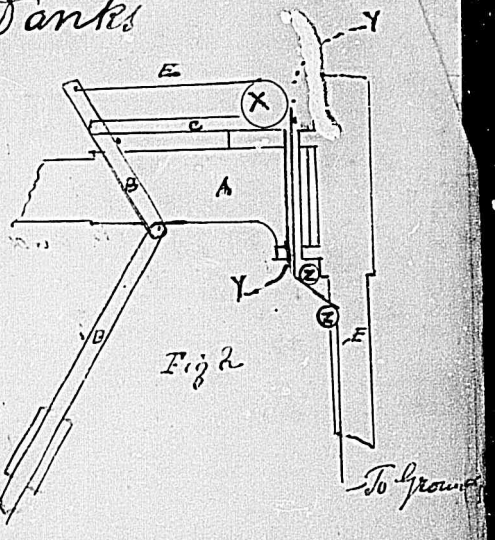


Fig 2

Thomas Danks