# PATENTS.

Applicant: J. BEDFORD & T.F. LONGLAND. No. 14541

Invention: Windmill. Date: 20.2.02

APPLICATION—

Received with Provl. specification and fee (10s.) paid ... 20.2.02

Accepted, : : Acknowledged, 28 : 2 : 02 Gazetted. 6 : 3 : 02

COMPLETE SPECIFICATION (if left subsequently)—

Received and fee (10s.) paid ... ... ... ... ... ... 29.10.02

Accepted, : : Acknowledged, 26 : 11 : 02 Gazetted, 11 : 12 : 02

COST OF COPYING—

Specification, £ : 2/- Drawings, £ : 1/-

LETTERS PATENT—

Memorandum and form re issue posted to N J Dalton 17 : 2 : 03

Issue applied for and fee (£2) paid ... ... ... ... ... 1 : 5 : 03

Prepared, 11 : 5 : 03 Issued to N. J. Dalton 21 : 5 : 03

Advice to the Governor with No. 114 of 15 Receipt Forwd.

FEES FOR SECOND AND THIRD TERMS—

Reminder sent to Applts. agt. 27 : 1 : 06 Fee (£5) paid, 28 : 2 : 06

Reminder sent to Applts. 21 : 12 : 08 Fee (£10) paid, : :

[2,000/6/1901—3136

## MEMORANDA.

Extension of time granted payment 2nd term fee 9-3-1906
Fee 10s. paid 8-3-1906. £1, 8/5/06

VOID.

NEW ZEALAND.

NEW ZEALAND PATENT OFFICE 29 OCT 1902

"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.: 14541
Date: February 20 1902

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

(a) An improved windmill ~~or accessories~~

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

(b) I James Bedford Puriri Ohinemuri Provincial District of Auckland and Colony of New Zealand Plumber. A subject of Great Britain. And Thomas Francis Longland City of Auckland and Colony aforesaid Commercial Traveller

(c) "My" or "our"

(c) See above.

do hereby declare the nature of (c) ~~my~~ our invention for (a) An improved windmill ~~or accessories~~

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) We do not propose to alter the design or framework (as for instance in the American style of windmill) but our invention consists in an additional device or

or arrangement of parts acting conjointly, automatically or otherwise whereby the motion of the slats are simultaneously acted upon by an attachment to an annular ring or rings. The object of the device is to prevent the racing of the machinery or sudden and unequal motion of the mill. I effect this object to regulate the speed of the revolving parts of the wheel by having one side of each of the slats or sails hung hinge like to one of the felloes, or spokes of the frame of the wheel as at E E and the other side of each of the slats or sails connected to the annular ring F at the back of the wheel so that the slats will open out or close in simultaneously according to the wind pressure on the wheel, so that the wind will pass through the wheel as in a hurricane or close up to receive the lightest breeze. The annular ring being controlled by the springs on the face of the wheel, or at the back by long springs extending to the diameter of the wheel or spiral spring on main shaft.

The drawings hereto will explain the action of the device. The same letters being applicable to all the drawings for the similar parts.

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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.

(a) See first page.

(c) "I" or "we."

(e) See above.

(f) Here state distinctly the features of novelty claimed.

Having now particularly described and ascertained the nature of (c) ~~my~~ our said invention, and in what manner the same is to be performed, (c) ~~I~~ We declare that what (c) ~~I~~ We claim is,—

(f) The device of having an annular ring or rings controlled by springs at face or back of the mill such ring being connected on one side of the slats of a windmill, and the other side of the slats connected hinge like to the frame of the mill, the opening out of the slats is effected by the pressure of the wind on the face of the mill and closed by the springs when the pressure of the wind is removed. As substantially set forth

Thomas Francis Longhurst

(c) Signature of the applicant or applicants.

Dated this Twentieth day of October A.D. 1902

(c) James Bedford Inventors

[2,000/11/1900—7763]

Fig 1. Is the half front view of a windmill ~~a governor~~, the slats being open as in a gale of wind.

Fig 2. Is the half front view of same the slats being closed as in a gentle breeze.

Fig 3. Is the section of the wheel at A.B

C is the outer frame. D is the inner frame.

E.E. is the attachment of the slats to the frame C. and D.

F. Is the annular ring, one or more if desirable.

G. The controlling spring on the face may be at the back or by spiral springs on the shaft or near spider H.

PATENT OFFICE
29 OCT 1902
NEW ZEALAND.

NEW ZEALAND.

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

# APPLICATION FOR LETTERS PATENT.

(TO BE ACCOMPANIED BY EITHER PROVISIONAL OR COMPLETE SPECIFICATION.)

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

(a) I James Bedford Puriri Thamesmouth Provincial District of Auckland and Colony of New Zealand Plumber

(b) "I am" or "we are."

(c) Insert title of invention.

declare that (b) I am in possession of an invention for (c) An improved windmill or aermotor

(d) "I am" or "we are," except when application is made by nominee or assignee, in which case name and description of actual inventor should be inserted. (See No. 8, Patent Regulations).

that (d) I am the true and first inventor thereof; and that the same is not in use by any other person or persons to the best of (e) my knowledge and belief, and

(e) "My" or "our."

(f) "I" or "we." "Me" or "us"

(f) I pray that a patent may be granted to (g) me for the said invention, as described in the specification herewith.

(g) "I" or "we." "Me" or "us"

Dated this Twenty fifth day of October, ~~1902~~ 1902

James Bedford

(h) Inventor

(h) Signature of applicant or applicants.

Witness to signature: Frederic Bedford

(i) Blacksmith

Puriri

(i) Signature, address, and occupation of witness.

5,000/10/02—6527

NEW ZEALAND.

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

## PROVISIONAL SPECIFICATION
FOR LETTERS PATENT.

(a) An improved Windmill

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

(b) We James Beaford of Purewa Rhinemure Plumber And Thomas Francis Longland of Mount Eden Suburbs of Auckland Commercial Traveller both of the Provincial District of Auckland and Colony of New Zealand

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

do hereby declare the nature of (c) our invention for (a)

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

An improved Windmill

to be as follows (d) The object of this invention is to have a device, automatic or otherwise in its action, connected with a regulating attachment to the sails or stock of a Windmill (more particularly adapted to the American style of wheel or windmill) for the purpose of preventing the racing of the machinery or sudden accelleration of the mill and

(d) Here insert short description of the invention.

NEW ZEALAND.

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

## PROVISIONAL SPECIFICATION
FOR LETTERS PATENT.

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

(a) An improved Windmill

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

(b) We James Beasley of Puriri Ironmonger Plumber And Thomas Francis Longland of Mount Eden suburbs of Auckland Commercial Traveller both of the Provincial District of Auckland and Colony of New Zealand

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

do hereby declare the nature of(c) our invention for(a)

An improved Windmill

(d) Here insert short description of the invention.

to be as follows(d) The object of the invention is to have a direct, automatic or otherwise instantaneous action, connected with a regulating attachment to the sails or sails of a Windmill (more particularly adapted to the American style of wheel or windmill) for the purpose of preventing the racing of the machinery or sudden and unexpected motion of the mill and so to

14541

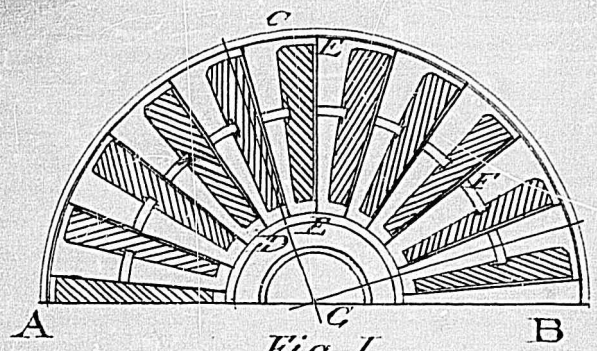



Fig. 1

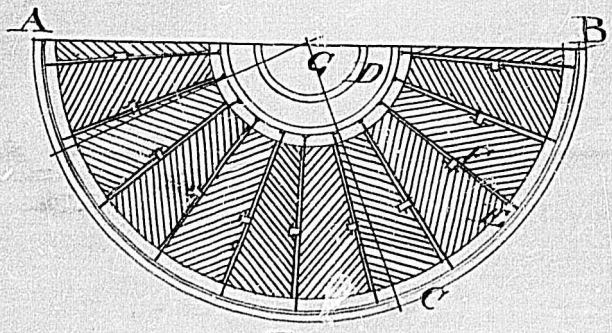



Fig. 2.

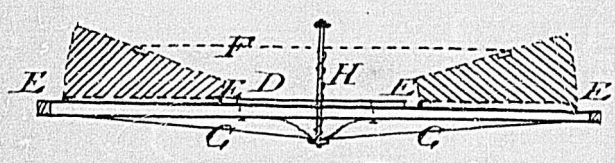



Fig. 3.

James Bedford