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COMPLETE SPECIFICATION

AFTER PROVISIONAL
No.67049 dated
6th MAY 1931.

BALDWIN SON & CAREY,
Patent Attorneys
WELLINGTON, N.Z.

"AN IMPROVED WINDMILL HEAD"

I, HAROLD WILFRED BROWNE, of Bradley's Landing, Turiwiri R.D., Dargaville, Provincial District of Auckland, Dominion of New Zealand, a British subject, do hereby declare the nature of this invention and in what manner the same is to be performed, to be particularly described and ascertained in and by the following statement:-

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This invention relates to windmills, and provides an improved form of head for same, which is of simple construction, is light and strong, and has a minimum of moving parts, said head being capable of being manufactured and placed on the market comparatively cheaply.

According to the invention, the improved head comprises a fitting adapted to swivel on the upper end of the main pipe of the mill, an upwardly extending bracket at one side of the fitting, a platform on said bracket, a bearing for the mill shaft on said platform, a crank disc on said shaft, a guide piston in the main pipe, a rod connecting the guide piston with the pin of the crank-disc, and a lifting-rod connected to said guide piston.

The invention is illustrated in the accompanying drawing, and will be further described in conjunction therewith,

Fig. 1 being an elevation, partly in section of the improved head, and

Fig. 2 an elevation at right angles to the view given in Fig. 1.

Referring to the drawing, 1 represents a fitting adapted to be placed on the upper end of the main pipe 2, so as to swivel thereon, said fitting having rising therefrom at one side, a bracket 3 on the platform 4 supported by which is bolted the bearing 5 for the mill shaft 6, said bearing 5 being provided with suitable grease cups

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7 or the like.

The inner end of the mill shaft has mounted thereon a crank disc 8 the crank pin 8a of which is connected by a rod 9 with a piston 10 operable in the main pipe 2, said rod 9 screwing into a T fitting 10a, which is passed upon the crank pin 8a, a lock nut 11 on the rod 9 being screwed against the T fitting 10 which is provided with a grease cup 12 or the like.

The piston 10 has connected thereto the lifting rod 13 which screws into the piston and is secured by a lock nut 14.

The main fitting 1 is also provided with a further platform or bracket 15 from which a weather or wind direction vane is supported.

The piston 10 serves as a guide for the rod 13 within the pipe 2 and is turnable therein, with the head, under the action of the weather or wind direction vane.

HAVING NOW particularly described and ascertained the nature of my said invention and in what manner the same is to be performed, I declare that what I claim is:-

1. A windmill head, comprising, a fitting adapted to swivel on the upper end of the main pipe of the mill; an upwardly extending bracket at one side of the fitting; a platform on the said bracket;

a bearing for the mill shaft on said platform; a crank disc on said shaft; a guide piston in the main pipe; a rod connecting the piston with the pin of the crank disc; and a lifting rod connecting to said guide piston, substantially as described and illustrated.

2. A windmill head, as in claim 1, wherein the connecting rod between the crank disc and the guide piston is screwed and locked in a T fitting passed upon the crank pin of said disc, substantially as described and illustrated.

3. The improved windmill head comprising the parts, formed, assembled and operated substantially as herein described and as illustrated in the accompanying drawing.

DATED this 4th day of February 1932.

Baldwin Son & Carey

ATTORNEYS FOR THE APPLICANT.

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Baldwin Son & Carey

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Attorneys for the Applicant

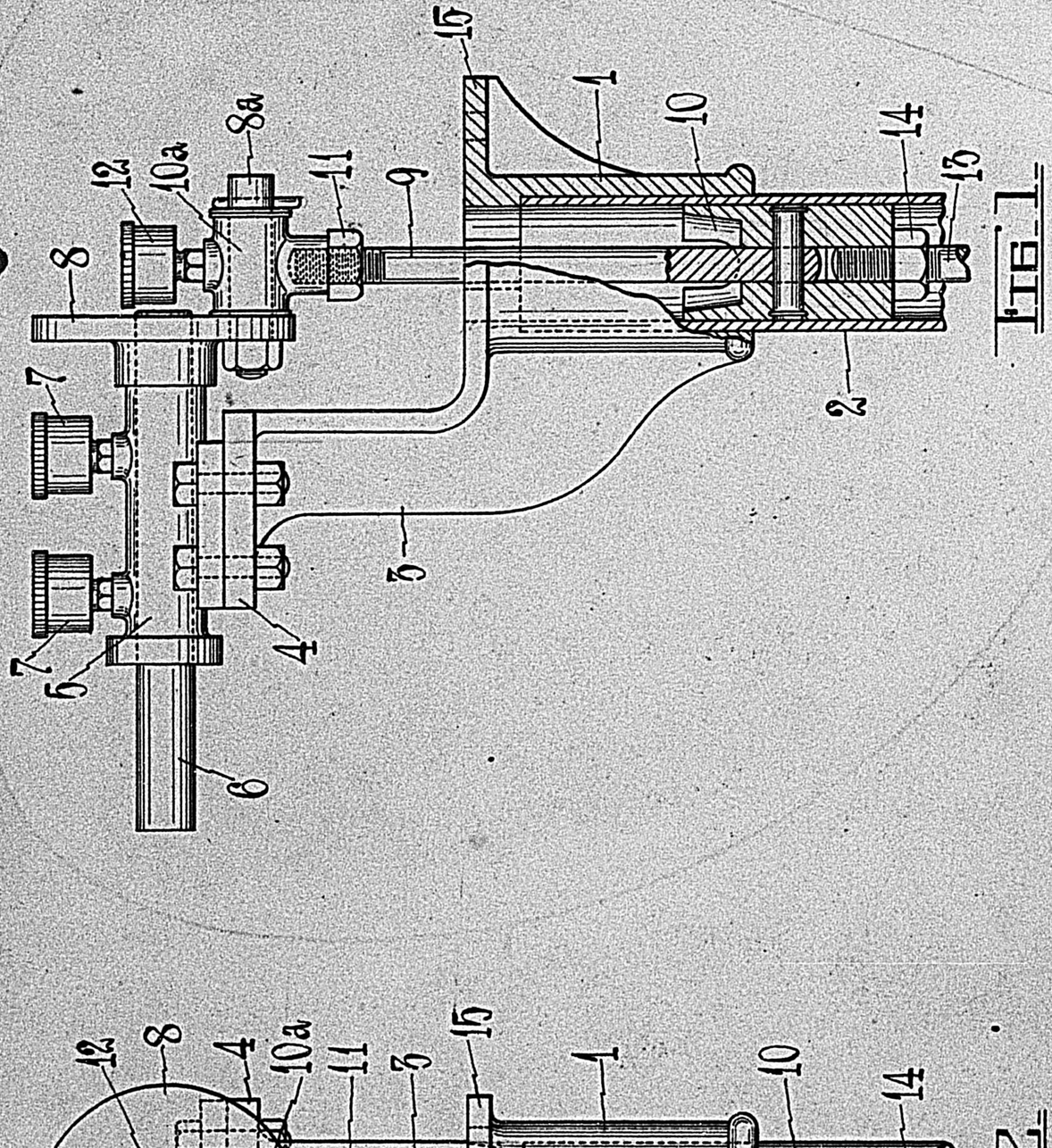


FIG. 1

FIG. 2