

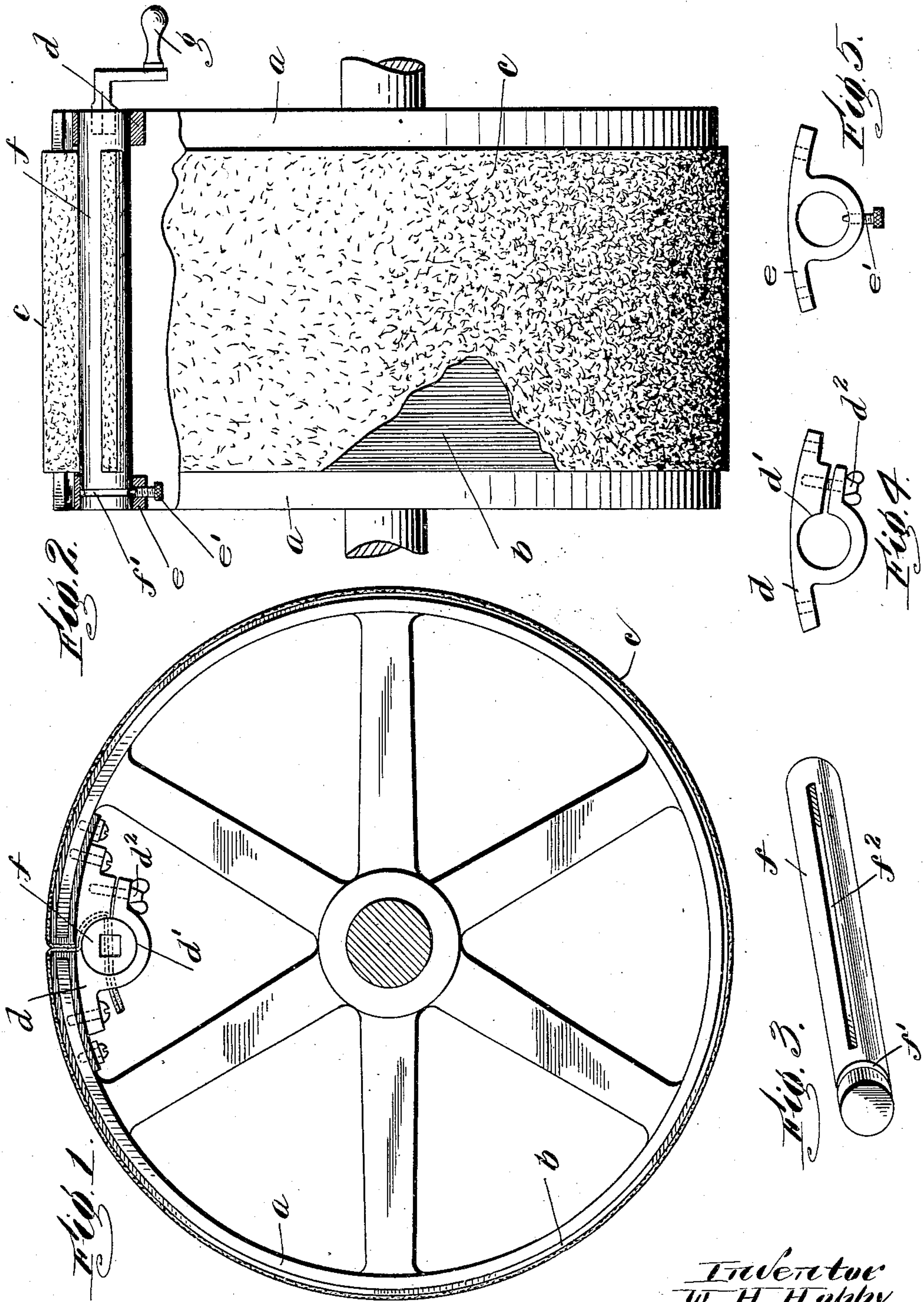
No. 863,276.

PATENTED AUG. 13, 1907.

W. H. HOBBY.

SAND WHEEL.

APPLICATION FILED NOV. 20, 1906.



Witnesses:

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UNITED STATES PATENT OFFICE.

WILLIAM H. HOBBY, OF GARDNER, MASSACHUSETTS.

SAND-WHEEL.

No. 863,276.

Specification of Letters Patent.

Patented Aug. 13, 1907.

Application filed November 20, 1906. Serial No. 344,285.

To all whom it may concern:

Be it known that I, WILLIAM H. HOBBY, a citizen of the United States, residing at Gardner, in the county of Worcester and State of Massachusetts, have invented
5 a new and useful Sand-Wheel, of which the following is a specification.

This invention relates to a sand wheel and is adapted to the various uses for which articles of this character are or may be employed.

10 The principal objects of the invention are to provide means whereby the sand sheet may be tightened on the circumference of the wheel or drum on which it is mounted and clamped in tightened position; also to simplify the construction of the means for tightening
15 the sand sheet, to prevent longitudinal motion thereof, and generally to improve the construction and operation of articles of this character.

Reference is to be had to the accompanying drawings, in which

20 Figure 1 is an end elevation of a sand wheel showing one form of the present improvements applied thereto. Fig. 2 is a side elevation of the same partly broken away and in section. Fig. 3 is a perspective view of the tightening roller, and Figs. 4 and 5 are end eleva-
25 tions of a pair of brackets employed on the wheel.

The sand wheel itself may be of any desired or convenient construction, but it is shown in the form of a wheel or drum *a* slit longitudinally on a line parallel with its axis. On the outside of the drum is placed
30 a sheet *b* of padding material, the ends of said sheet being brought through the slit in the drum and fastened to the inner side thereof by screws or in any other convenient manner. The sand sheet *c* of paper or other material is passed around the drum in a similar
35 way, and its ends pass through the slit.

An important feature of the invention is the provision of means for engaging these ends drawing them through the slit, and tightening them so as to give a smooth surface to the sand sheet on the drum. For
40 this purpose a pair of brackets *d* and *e* are secured or otherwise fastened to the inside of the drum near the opposite ends of said slit. The bracket *d* is provided with a split bearing *d'*, and with a wing bolt *d''* for pressing the slit ends together so as to compress them
45 upon a roll *f* which passes through the bearing. The bracket *e* is provided with an ordinary bearing for the roll and with a screw *e'* passing into the bearing to engage a circumferential slot *f'* in one end of the roll *f* so as to prevent the roll from receiving a longitudinal
50 motion. This roll is provided with a slot *f''* extending longitudinally thereof preferably through the center,

and substantially from end to end. This slot is as long as the sheet of sand material is wide, and is intended to receive the two ends which pass through the slit in the drum as indicated in Fig. 1. When these
55 ends pass through the slot, a handle *g* which may be connected with the end of the roll in any desired way, as for example, by a square socket in the roll and a square projection on the handle, is employed to turn the roll to draw the sheet into the slit from both direc-
60 tions and wind it upon the roll so as to tighten the same. When the sheet is sufficiently tightened, the screw *d''* is tightened so as to clamp the roll in position to hold the sheet tight on the surface of the drum or wheel.
65

While I have illustrated and described a particular form of my invention, I am aware that modifications may be made therein by any person skilled in the art without departing from the spirit of the invention as expressed in the claims.
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Having thus fully described my invention, what I claim is:—

1. The combination with a sand wheel, of a winding roll therefor of substantially the same diameter throughout its length, and having a diametrical slot therethrough
75 and a circumferential groove near one end, and two brackets one on each side of said wheel, each having a bearing for the roll, and one having a screw entering said groove.

2. The combination with a sand wheel, of a winding roll
80 of substantially the same length as the wheel, and of substantially the same diameter throughout its length, and having a diametrical slot therethrough, and two brackets mounted on the inside of the sand wheel, each having a bearing for the roll, the bearing of one of said brackets
85 being split and provided with means for clamping the roll therein.

3. In a sand wheel, the combination of a drum having a longitudinal slit therein, a pair of brackets fixed to the inside of the drum and having bearings, one of said bear-
90 ings being split, a roll located in said bearings and having a slot for receiving the ends of a sand sheet on the drum, and means for clamping the ends of the slit bearing together to fix said roll in adjusted angular positions.

4. In a sand wheel, the combination of a drum longi-
95 tudinally slit, a pair of brackets fixed to the inside of the drum near the ends thereof, each having a bearing a winding roll located in said bearings and having means for receiving the ends of a sand sheet on the drum and provided with a circumferential groove located within
100 one of said bearings, and a screw located in the bearing in which the groove is located and adapted to engage in said groove to prevent longitudinal motion of the roll.

In testimony whereof I have hereunto set my hand, in the presence of two subscribing witnesses.

WILLIAM H. HOBBY.

Witnesses:

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