

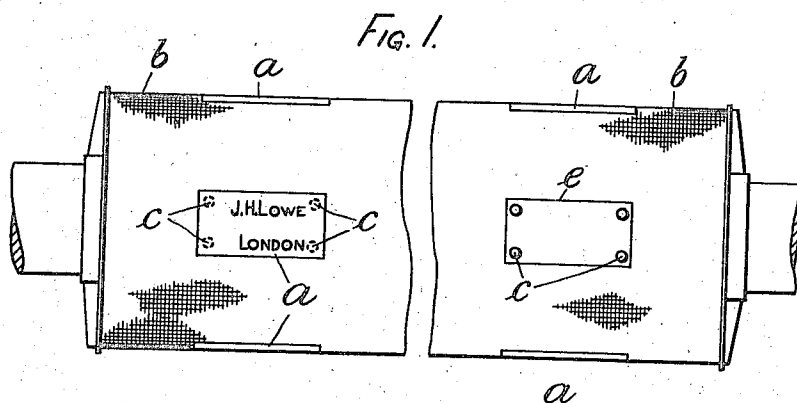
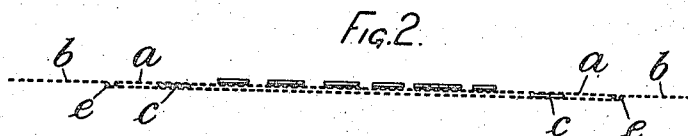
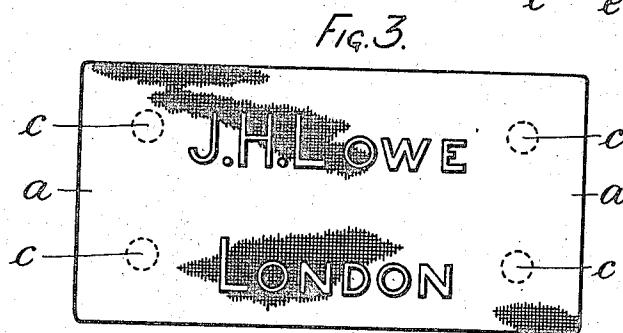
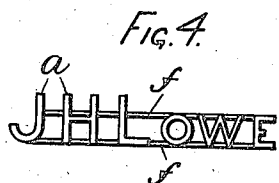
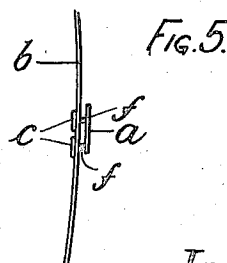
July 17, 1923.

J. H. LOWE

1,462,369

DANDY ROLL

Filed May 2, 1922



Inventor
J. H. Lowe
by Wilkinson & Gustaf
Attorneys.

UNITED STATES PATENT OFFICE.

JAMES HENRY LOWE, OF BASTED, BORO' GREEN, ENGLAND.

DANDY ROLL.

Application filed May 2, 1922. Serial No. 557,817.

To all whom it may concern:

Be it known that I, JAMES HENRY LOWE, a subject of the King of Great Britain, of Bridge House, Basted, Boro' Green, in the county of Kent, England, have invented a certain new and useful Improvement in or Relating to Dandy Rolls, of which the following is a specification.

This invention relates to dandy rolls for paper making machines and has for its object to provide improvements therein or relating thereto, whereby the necessity for using a different roll for each different water mark may be avoided.

To this end and according to this invention a water mark device is provided adapted to be detachably and interchangeably fitted to the surface of the roll. For example, the dandy roll and the water mark device may each be formed or provided with coating fastening devices by which the water mark device is detachably and interchangeably secured thereto.

In the accompanying drawings which show two ways of carrying out this invention,

Fig. 1 is an elevation of a dandy roll having the invention applied thereto,

Figs. 2 and 3 are respectively a longitudinal section and face view drawn to a larger scale, of the improved water mark device shown applied to the dandy roll in Fig. 1.

Fig. 4 is a face view of a modified form of the invention, and

Fig. 5 is a transverse section of Fig. 4.

In the construction of dandy roll carried out in accordance with this invention, as shown in Figs. 1 to 3, the water mark device which in this case is shown as consisting of the name "J. H. Lowe" is formed upon a rectangular tablet *a* of wire gauze or wire work similar to that employed for the surface or body of the dandy roll or of other suitable foraminous metal fabric. Although shown as rectangular, this tablet *a* may be of any suitable design. The said water mark tablet is detachably fastened to the surface of the dandy roll *b* by devices having the form of a press button or the like *c*, the surface of the roll *b* being fitted with one half of the fasteners placed to correspond with the other portions of the water mark tablet *a*, which fastenings may be conveniently placed in any position around the edge or adjacent to the corner of the tablet

as shown, or as may be desired. Other suitable fastening devices may be employed.

The water mark tablet *a* of wire gauze or the like is received around its edges in a suitable frame *e* of wire or the like permanently mounted on or built into the surface of the roll. As shown in Figs. 2 and 3 the frame *e* may be arranged around the border of a recessed portion of the roll in which the tablet *a* rests in order to bring the operative surface of the water mark to the required level.

In the modified construction shown in Figs. 4 and 5 the water mark lettering is attached to wire strips *f* *f* which are detachably secured, by press studs, or other fastenings *c* to the surface of the dandy roll *b*.

The surface of the dandy roll which is to receive tablet *a* may be mutilated so as to bring the surface of the tablet flush with the remaining surface, for example, the surface may be countersunk, see Fig. 2, or a section of the surface of the dandy roll may be removed so as to bring the said tablet section or plate *a* flush with the surface of the roll.

It will be seen that by the use of the detachable and interchangeable water mark, or water mark tablet, one of the improved dandy rolls may be used for any number of different water marks, and thus the necessity and expense of employing a large number of rolls one for each water mark is avoided, and any number of different water marks may be used at the same time if desired, and further comparatively small quantities of paper may be made with one mark without appreciable extra expense.

What I claim as my invention and desire to secure by Letters Patent is:—

1. A water mark device for dandy rolls comprising a tablet adapted to carry a water mark and adapted to be fitted to the dandy roll, and two-part detachable fasteners carried by the back of said tablet and said roll whereby to removably attach the tablet to the dandy roll.

2. In dandy rolls, a water mark device mounted on a tablet of material similar to the surface of the dandy roll, a tablet receiving frame on the dandy roll, and detachable fastenings for securing the water mark tablet to the dandy roll in said frame.

3. In dandy rolls, a water mark device mounted on a tablet of foraminous metal fabric, a tablet receiving frame on the dandy

roll and detachable fastenings for securing the water mark tablet to the dandy roll in said frame.

4. In dandy rolls, a water mark device
5 mounted on a tablet of material similar to the surface of the dandy roll, a tablet receiving frame on the dandy roll and press button fastenings for securing the water mark tablet to the dandy roll in said frame.
10 5. In dandy rolls a water mark device mounted on a frame consisting of wire

strips and detachable fastenings whereby said frame is attached to the dandy roll.

6. The combination with a dandy roll and a detachable tablet carrying a water
15 mark device wherein the surface of the dandy roll is mutilated at that portion which is to receive the water mark tablet whereby the said water mark tablet may be
20 brought level with the surrounding surface of the roll.

JAMES HENRY LOWE.