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PATENTED OCT. 15, 1907.

F. RIVETT & S. OLDHAM.
SPLIT DRUM FOR WINDING FRAMES.

APPLICATION FILED JUNE 4, 1906.

2 SHEETS—SHEET 1.

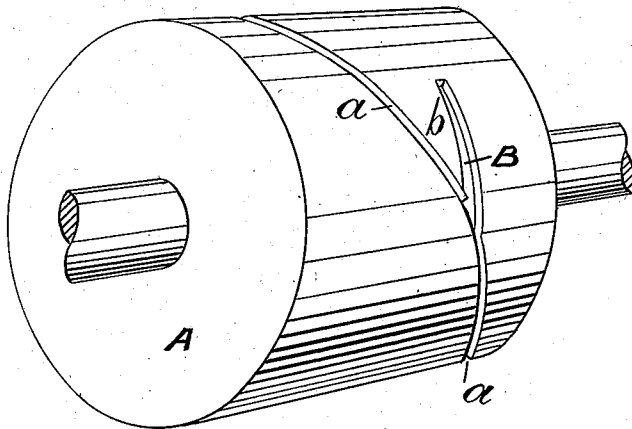


FIG. 1.

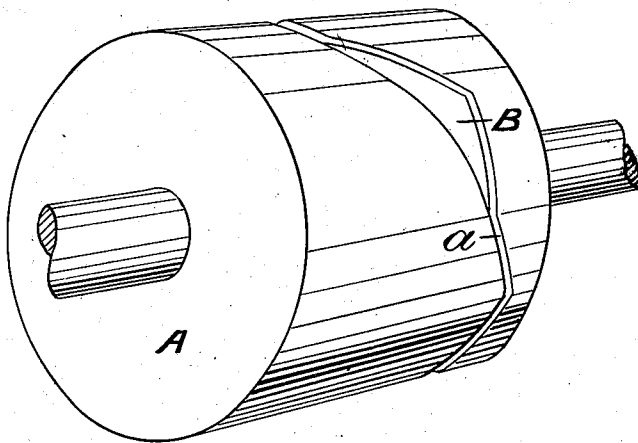


FIG. 2.

WITNESSES

E. Howard
Joseph Bates.

INVENTORS.

F. Rivett
S. Oldham
By J. A. Brown
att

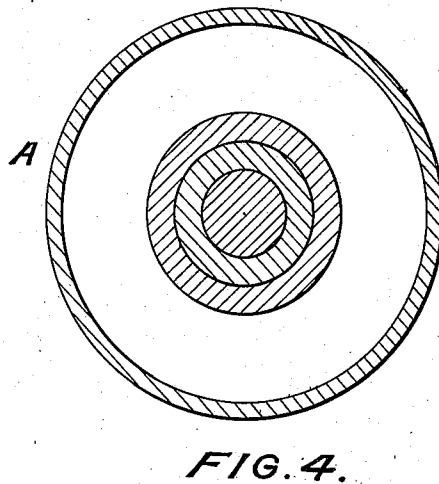
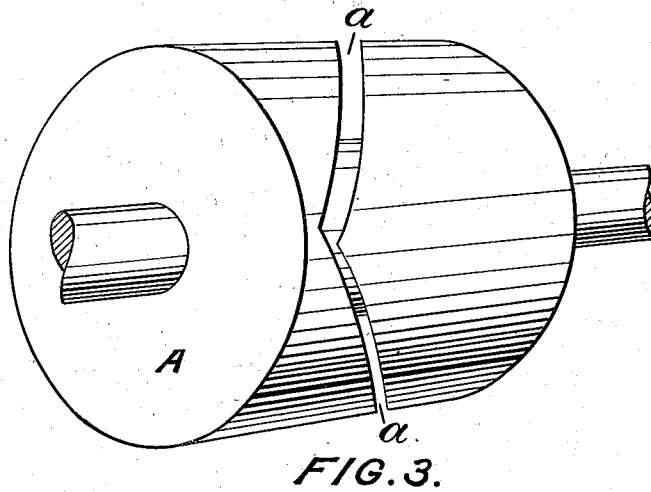
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S. Oldham
W. J. Outen
att.

UNITED STATES PATENT OFFICE.

FRED RIVETT, OF HEATON CHAPEL, AND SAMUEL OLDHAM, OF HEATON NORRIS,
ENGLAND.

SPLIT DRUM FOR WINDING-FRAMES.

No. 868,013.

Specification of Letters Patent.

Patented Oct. 15, 1907.

Application filed June 4, 1906. Serial No. 320,094.

To all whom it may concern:

Be it known that we, FRED RIVETT, a British subject, and a resident of Heaton Chapel, county of Lancaster, England, and SAMUEL OLDHAM, a British subject and a resident of Heaton Norris, county of Lancaster, England, have invented certain new and useful Improvements in Split Drums for Winding-Frames, of which the following is a specification.

This invention relates to the drums of winding and gassing frames in which the cross winding is performed by a split or groove running spirally or diagonally across the periphery of the drum.

It consists essentially in constructing the drum with an auxiliary slot parallel or approximately parallel with the direction of rotation or at right angles to the axis on one or both sides or with an opening or aperture or increased width of slot at one side of the present slit or split into which the thread can enter while the drum continues its rotating at a rapid rate and by which the thread will be at once directed into the slit or split of the drum.

The invention will be fully described with reference to the accompanying drawings in which as examples several forms of the invention are shown.

Figure 1. Perspective view of split winding drum showing one form of the invention. Fig. 2. Similar view showing another form. Fig. 3. Similar view showing another form. Fig. 4. End elevation in section.

The winding drum A is split or formed with a slit *a* traversing the periphery of the drum in the usual way by which the thread or yarn is directed during the process of winding.

In one face or side of the drum an auxiliary slot or opening B is made of sufficient width to allow the thread

to readily enter while the drum is rotating at a high speed. In the form shown in Fig. 1, the auxiliary slot B is placed near to the center of the periphery of the drum and approximately at right angles to the central axis so that a thread will readily enter it upon being laid across the drum and be at once directed into the slit *a*. In the form shown in Fig. 2 an opening or hole B is formed by removing the intervening piece of metal *b* shown in Fig. 1. between the slot B and the slit *a*. The opening slot or aperture B may be of any shape to throw the yarn or thread into and against the guiding edge of the slit *a*. In the form shown in Fig. 3. the opening or aperture is made in the form of an increased width of slit around one side of the drum leaving the guiding edge of the slit *a* without any alteration. If desired the slit or opening B may be made on both sides of the drum.

With this construction the drum can be threaded by merely drawing the thread across it while it is rotating at a high speed.

What we claim as our invention and desire to protect by Letters Patent is:—

1. A split drum for winding and gassing frames constructed with an auxiliary slit or opening by which to introduce the yarn or thread into the guiding slit of the drum substantially as described.

2. In a split drum for winding or gassing frames the combination with the zig-zag slit *a* of an auxiliary slit B leading into the main slit to guide the yarn or thread into the main slit while the drum continues rotating substantially as described.

In witness whereof, we have hereunto signed our names in the presence of two subscribing witnesses.

FRED RIVETT.
SAMUEL OLDHAM.

Witnesses:

I. OWDEN O'BRIEN,
H. BARNFATHER.