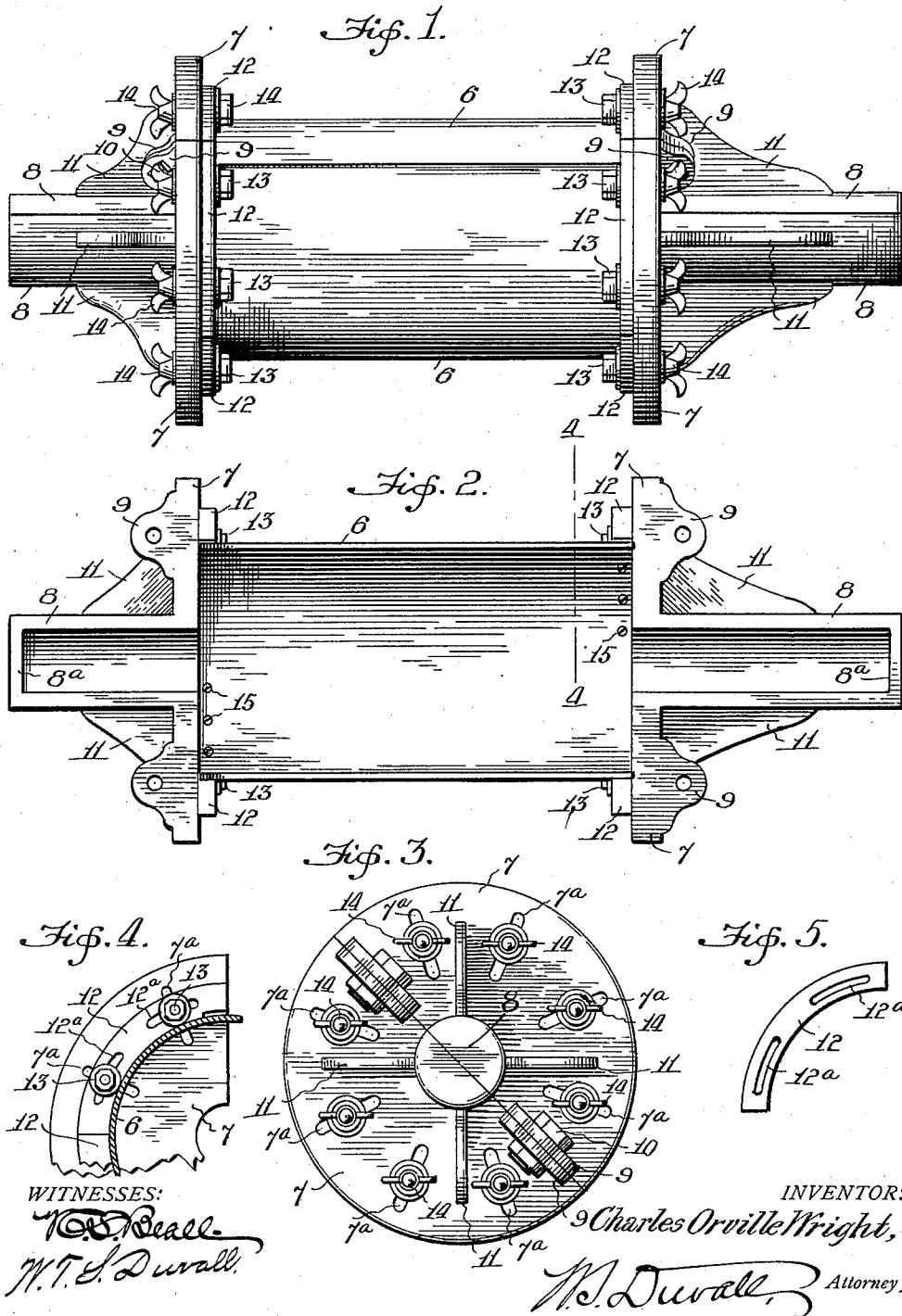


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SHIPPING CASE FOR FLOUR MILL ROLLS, &c.
APPLICATION FILED FEB. 20, 1912.

1,032,461.

Patented July 16, 1912.



UNITED STATES PATENT OFFICE.

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SHIPPING-CASE FOR FLOUR-MILL ROLLS, &c.

1,032,461.

Specification of Letters Patent.

Patented July 16, 1912.

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To all whom it may concern:

Be it known that I, CHARLES O. WRIGHT, a citizen of the United States, residing at Bluefield, in the county of Mercer and State of West Virginia, have invented a Shipping-Case for Flour-Mill Rolls, &c., of which the following is a full and complete specification.

This invention is an improvement in shipping-cases, and relates more especially to those devices of this character which are employed for the purpose of safely shipping flour-mill rolls, paper-mill rolls, armatures, and similar articles in which extraordinary care must be taken in their handling and transportation.

The primary object of my present invention is to provide a shipping device which is strong and durable in construction to incase the roll or armature and thoroughly protect it, and which may be readily and conveniently adjusted to fit rolls or armatures of different sizes.

My present invention consists of a shipping case made up of sections bolted together to provide circular heads with axial extensions to embrace the ends of the roll and receive the spindles or gudgeons, and a cylindrical casing between the heads to incase the body of the roll; together with means for connecting the sections of the shipping-case together, and means for connecting the sections of the cylindrical casing to the heads in such manner that the diameter of said cylindrical casing may be varied to receive rolls of different diameters and press snugly thereagainst; all as hereinafter fully described and specifically set forth in the appended claims.

In the accompanying drawings, which form a part of this specification: Figure 1 is a side view of a shipping-case, constructed in accordance with my invention. Fig. 2 is a similar view, looking at the inner side of one of the sections of the shipping-case. Fig. 3 is an end view of the shipping-case. Fig. 4 is a fragmental sectional view, on the line 4-4 of Fig. 2, and Fig. 5 is a detail view of one of the ring-segments employed for connecting the sections of the cylindrical casing to the heads.

Like numerals of reference indicate like parts in all the figures of the drawings.

In carrying out my invention I preferably construct the shipping-case of two longitudinal sections or halves, which are similar

in shape, each having a semi-cylindrical body portion 6, to receive and protect the roll, opposite semi-circular heads 7, to embrace the ends of the roll, and axial extensions 8 projecting outwardly from the heads to receive the spindles or gudgeons with which such rolls are usually provided; said sections or halves being provided with means, as companion ears 9, through which the bolts 10 pass for connecting the sections firmly and securely together upon the roll.

The axial extensions 8 are suitably braced by means of webs 11, which extend from the semi-circular heads to said extensions. The axial extensions are semi-circular in cross-section, so that when the two sections of the shipping case are brought together they will form pockets for the spindles or gudgeons, as will be understood; each extension being closed at its outer end by a transverse wall 8^a.

The ears 9, for connecting the sections of the shipping-case together, project outwardly at the meeting edges of the semi-circular head-sections 7, and register when the sections are brought together, so as to receive the connecting-bolts 10.

In the present instance the semi-cylindrical sections 6, forming the body of the shipping-case, are connected to the head-sections 7 in such manner as to be adjustable radially for varying the diameter of the body portion or casing. For this purpose two or more ring-segments 12 are adjustably secured to the inner side of each semi-circular head-section 7, and the semi-cylindrical sections are secured at their ends to said ring-segments. These ring-segments are secured to the head-sections by means of bolts 13 and thumb-nuts 14, and the desired adjustment is secured by providing the ring-segments with concentric slots 12^a, and the head-sections with radial slots 7^a. The semi-cylindrical sections bear against the inner edges of the ring-segments, and each semi-cylindrical section is secured at its opposite ends to only one of the ring-segments, as shown in Fig. 2, whereby said semi-cylindrical section may be expanded or contracted to a more or less extent, and to provide for this the edges of the two sections preferably overlap, as indicated in Fig. 4. It will be understood, however, that this expansion and contraction is limited, and therefore in adjusting the device for a roll of a much larger or smaller size other semi-cylindrical sections are substi-

tuted. These sections are secured to the ring-segments by screws 15, and of course when sections of much larger or smaller diameter are required corresponding ring-segments are used in connection therewith. Furthermore, the semi-circular head-sections 7 may be used in connection with semi-cylindrical sections of any desired length.

In the application of my improved shipping-case for rolls, armatures, and similar articles semi-cylindrical sections of approximately the required size are bolted to the head-sections by means of the ring-segments, to thereby provide a shipping-case of two sections or halves, and in fitting the sections or halves on a roll or armature the thumb-nuts 14 are first loosened, so that after the sections are placed over the roll or armature the semi-cylindrical sections 6 may be pressed closely against the surface of the roll and held securely in place by tightening the thumb-nuts, this operation also pressing the heads firmly against the ends of the roll.

It will be understood, of course, that instead of forming the cylindrical body portion or casing 6 of the device in two sections, as shown in the drawings and hereinbefore described, I may form the same of three or more sections of such width that they will overlap, and provide each section with a single ring-segment at each end.

The shipping case herein shown and described not only thoroughly protects the roll or armature during the handling and transportation of the same, but also provides a means for conveniently moving a roll or armature from place to place, inasmuch as the circular heads will permit the shipping case to be easily rolled over the ground or other surface.

Having described my invention, I claim:

1. A shipping-case for flour-mill rolls, comprising opposite heads, a casing made

up of sections, segment-rings to which the sections of the casing are attached, and means for adjustably securing the segment-rings to the heads, substantially as shown and for the purpose set forth.

2. A shipping-case for flour-mill rolls, comprising opposite heads having radial slots, a casing made up of sections, segment-rings to which the sections of the casing are attached, and bolts passing through the segment-rings and radial slots in the heads, substantially as shown and for the purpose set forth.

3. A shipping-case for flour-mill rolls, comprising sections, each section consisting of opposite heads having radial slots and an axial extension, the latter being semi-cylindrical, a semi-cylindrical casing between the heads, and bolts for connecting the semi-cylindrical casing to the heads, said bolts passing through the radial slots, substantially as shown and for the purpose set forth.

4. A shipping-case for flour-mill rolls, comprising sections, each section consisting of opposite semi-circular heads having radial slots and an axial extension, a semi-cylindrical casing between the heads, segment-rings to which the semi-cylindrical casing is attached at its ends, said segment rings having concentric slots, and bolts passing through the slots in the segment-rings and heads for connecting the semi-cylindrical casing adjustably to the heads, substantially as shown and for the purpose set forth.

In testimony whereof I have signed my name to this specification in the presence of two subscribing witnesses.

CHARLES ORVILLE WRIGHT.

Witnesses:

P. A. BRAMMER,
T. P. WATTS.