(No Model.)

H. M. BINGHAM & G. RUNGE.

INCLOSURE FOR PACKING AND CARRYING PRINTERS' ROLLERS.

No. 481,465. Patented Aug. 23, 1892.

Fig. 1.

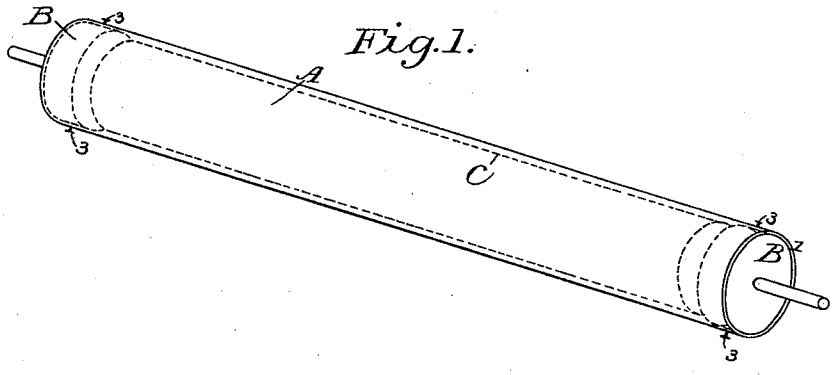


Fig. 2.

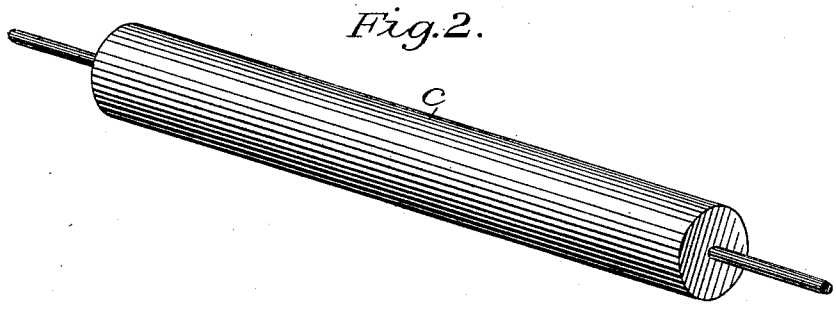
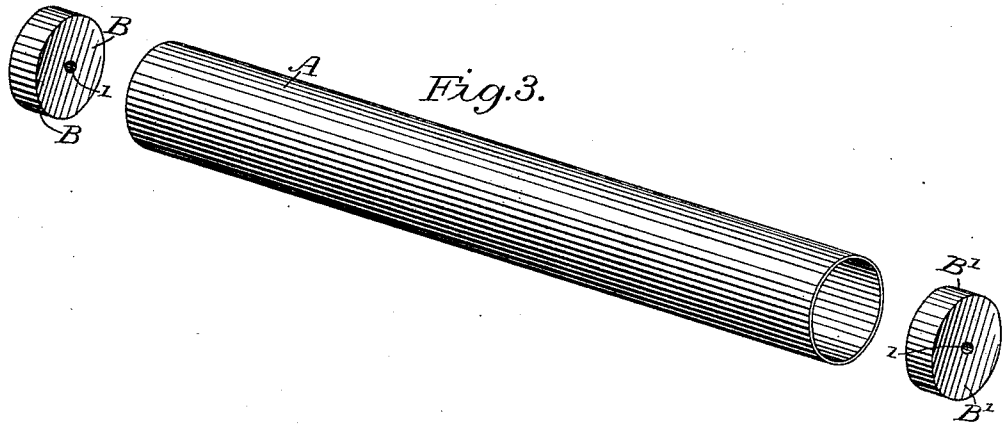


Fig. 3.



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UNITED STATES PATENT OFFICE.

HERBERT M. BINGHAM, OF AVONDALE, NEW JERSEY, AND GUSTAVE RUNGE, OF CLEVELAND, OHIO.

INCLOSURE FOR PACKING AND CARRYING PRINTERS' ROLLERS.

SPECIFICATION forming part of Letters Patent No. 481,465, dated August 23, 1892.

Application filed November 25, 1891. Serial No. 413,027. (No model.)

To all whom it may concern:

Be it known that we, HERBERT M. BINGHAM, of Avondale, in the county of Essex and State of New Jersey, and GUSTAVE RUNGE, of Cleveland, in the county of Cuyahoga and State of Ohio, citizens of the United States of America, have jointly invented a new and useful Inclosure for Packing and Carrying Printers' Rollers, of which the following is a specification.

Our invention has relation to improvements in boxes or cases for printers' rollers during transportation; and the object is to provide a cheap, simple, and convenient box or case, in which a printer's roller or similar article may be placed and secured for transportation, and such casing may be preserved for reshipment to the factory after the roller has become impaired and in need of repairs.

Our invention consists in an improved article of manufacture in the nature of a packing or storage case for holding and shielding "printers' rollers" and similar articles during transportation, as will be hereinafter fully specified, and particularly as the same is pointed out in the claim.

We have fully and clearly illustrated our invention in the accompanying drawings, wherein—

Figure 1 is a side view of the case, a roller being shown in dotted lines as supported and incased therein in condition for shipment or portage, the inner limit of the end pieces being also shown in dotted lines. Fig. 2 is a view of a printer's roller; and Fig. 3 is a view of the casing and the end pieces, the latter being shown as detached or removed from the casing.

Referring to the drawings, A designates a shell, made of paper, and which may be of any shape in cross-section, a round shell being preferred, as shown in the drawings. This shell, as illustrated, is a true cylinder, having open ends, as shown, in which are detachably fitted wooden disks, constituting end pieces B B′, having central holes 1, in which the journals of a printer's roller are disposed when arranged in the case. The tube or cylinder is made in one piece slightly longer than the roller to be carried by it, and also of larger diameter than the incased roller.

C designates a printer's roller arranged in the case and having its journals in the end pieces of the case. The case being of larger diameter than the roller, the latter is free from contact with the former, except at the points of support in the end pieces.

To secure the end pieces B B′ in the ends of the case, a screw, nail, or tack 3 is used, being driven through the case into the end piece, substantially as shown in Fig. 1 of the drawings. This relation of the roller and the shell, case, or tube suspends or supports the roller in the middle and away from the surface of any abrading or injurious surface or object.

To place the roller in the casing, the former is slipped into the latter, the wooden end pieces then arranged on the journals of the roller and pushed in the ends of the casing, and the fastening-nails driven through the casing into the end pieces.

Roller-cases have heretofore been shipped for repairs inclosed in wooden boxes. In their used and impaired condition the cores do not require protection. Our invention not only provides a convenient means for shipping back old rollers; but the repaired roller can be returned in the same box or casing and be fully protected on all sides. The usual packing-boxes are expensive and somewhat inconvenient. They are usually saved by the trade for subsequent use in sending back the cores or rollers, and, besides being expensive, they are comparatively heavy and bulky, and the cost of freight thereby increased. Our device, composed of a paper shell with the wooden end caps, being light, inexpensive, and durable, does away with these objectionable features and characteristics of the old style of shipping-boxes.

Having thus described our invention, what we claim is—

The carrying-case for printers' rollers herein described, consisting of a cylindrical paper tube of greater diameter and length than the roller to be carried, wooden disks detachably fitted in the ends of the tube and formed with central apertures to take the journals of a roller, and fastening-nails to hold the disks in the tube, as specified.

In witness whereof we have hereto set our hands in the presence of two attesting witnesses.

HERBERT M. BINGHAM.
GUSTAVE RUNGE.

Attest as to H. M. Bingham:
CHARLES BINGHAM,
H. C. SEARING.
Attest as to Gustave Runge:
H. F. HARRIS,
H. A. REGEL.