No. 881,490. PATENTED MAR. 10, 1908.

W. E. ROTHERMEL.

PROTECTING MEANS FOR THE ENDS OF ROLLS OF MERCHANDISE.

APPLICATION FILED MAR. 2, 1907.

Fig. 3.

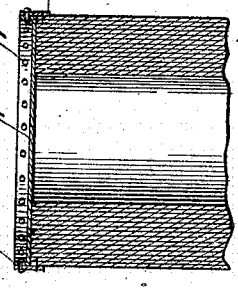
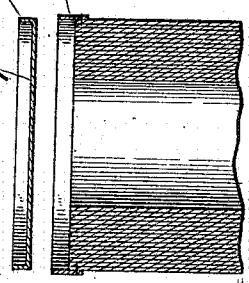



Fig. 4.



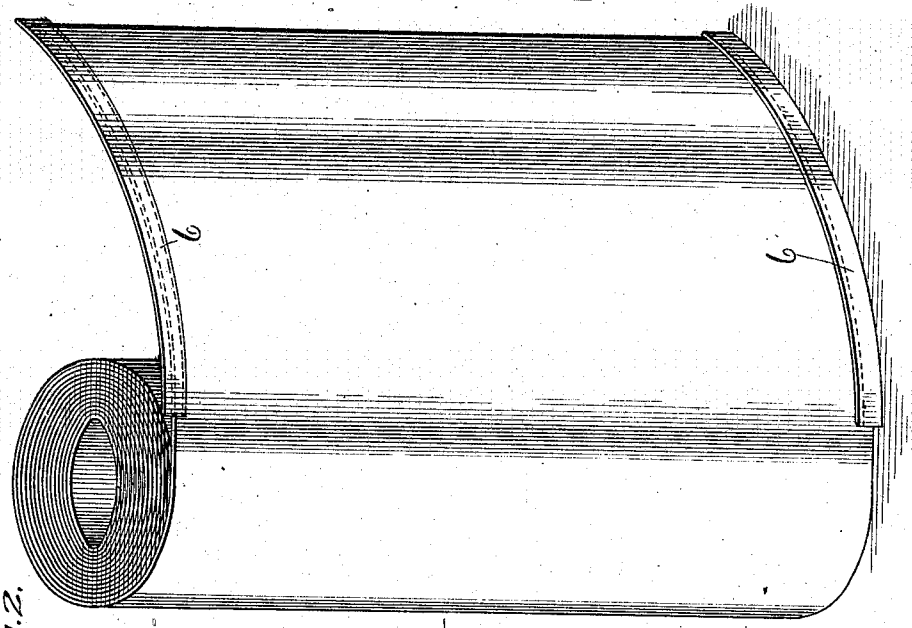




Fig. 2.

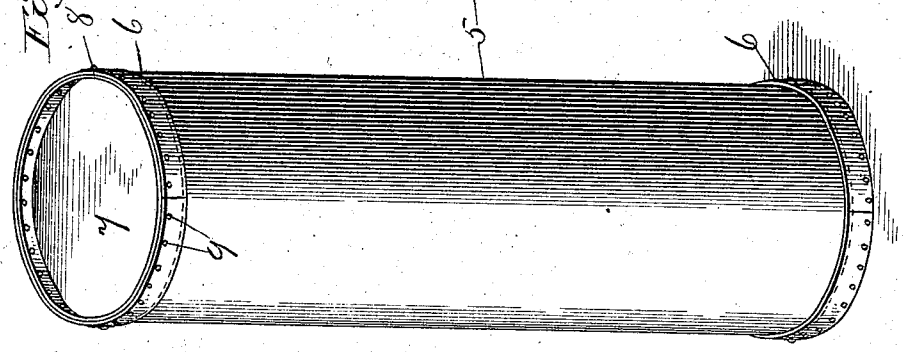



Fig. 1.

Witnesses:
M. Hammel
G. M. Copenhaver.

Inventor:
William E. Rothermel,
By Dyrenforth, Dyrenforth, Lee & Wiles,
Attys.

THE NORRIS PETERS CO., WASHINGTON, D. C.

# UNITED STATES PATENT OFFICE.

WILLIAM E. ROTHERMEL, OF CHICAGO, ILLINOIS.

## PROTECTING MEANS FOR THE ENDS OF ROLLS OF MERCHANDISE.

No. 881,490. Specification of Letters Patent. Patented March 10, 1908.

Application filed March 2, 1907. Serial No. 360,294.

*To all whom it may concern:*

Be it known that I, WILLIAM E. ROTHERMEL, a citizen of the United States, residing at Chicago, in the county of Cook and State of Illinois, have invented a new and useful Improvement in Protecting Means for the Ends of Rolls of Merchandise, of which the following is a specification.

The object of my invention is to provide simple and inexpensive means for protecting the ends of the rolls into which various articles of merchandise are formed to compact them for convenience in handling and shipment—such as paper, and more particularly roofing paper for which I have especially devised my improvement.

The ends of rolls of the character referred to require protection against injury in handling them; and the means I have invented for affording the desired protection subserve the additional purpose of fastening the free end of the rolled material, thereby avoiding any necessity for wrapping it for surface protection, unless the goods be of a character and quality requiring the surface of the roll to be covered.

In the accompanying drawing, Figure 1 is a perspective view of a roll of merchandise provided with my improved end-protection; Fig. 2, a similar view of the roll without the end-protecting heads, showing its free end provided with the permanent fastening-flaps; Fig. 3, a broken view of the roll in sectional elevation, showing one end provided with my improved protecting means, and Fig. 4, a similar view of the roll, showing the head or cap, forming an element of the protecting means, separate from the end of the roll on which it belongs.

The roll 5 may be one of roofing paper, or other material requiring protection of the roll-ends against jamming or other injury to which they are liable to be subjected in handling. On the free-end portion of the rolled material and along its edges are fastened, as by sewing, flaps 6, 6, preferably of a length that will adapt each to completely surround and meet at its ends about the roll.

The flaps may be composed of the same material as that of the roll, or of canvas or other suitably strong and flexible material, and they project beyond the free edges of the end to which they are fastened, to afford, when surrounding the roll 5, flanges extending about its ends. Within each flange is seated a head 7, in the form of a disk, which may be of pasteboard or other adequately stiff material, provided with an outwardly extending circumferential flange 8, about which fit the flange-portions of the flaps 6.

My improvement is applied, after the material to be protected has been reduced to the form of a roll 5, by wrapping about it the flaps, inserting the heads 7 against the roll-ends, and fastening together the flanges 8 and the flange section of the flaps surrounding them by passing through both rivets 9 or eyelets, at intervals, or by sewing or other stitching or fastening means.

The disks thoroughly protect the ends by covering them, and the double thickness of each end-flange may render it sufficiently strong to support the weight of the roll when standing on end, and protects the disk against such injury as would tend to impair its protecting function. Moreover, my improvement may be easily and quickly applied and removed, and affords a very cheap means for its purpose.

The essential feature of my invention is the flap-equipped edges of the free-end portion of the roll, whatever form of head or cap, or other device, may be employed on the roll-ends as the medium for fastening the flaps in place.

What I claim as new and desire to secure by Letters Patent is—

Means for protecting the ends of rolls of roofing or other paper, comprising flaps secured to the edges of the free-end portions of the material constituting the roll and forming flanges extending beyond the roll-ends, and cup-shaped heads seated on the ends of the rolls and having their upwardly extending encircling rims secured to the flange-portions of said flaps, as set forth.

WILLIAM E. ROTHERMEL.

In presence of:

R. A. SCHAEFER,

J. H. LANDES.