

(No Model.)

F. N. JONES.

RETARDING TUBE FOR CASH CARRIERS.

No. 391,051.

Patented Oct. 16, 1888.

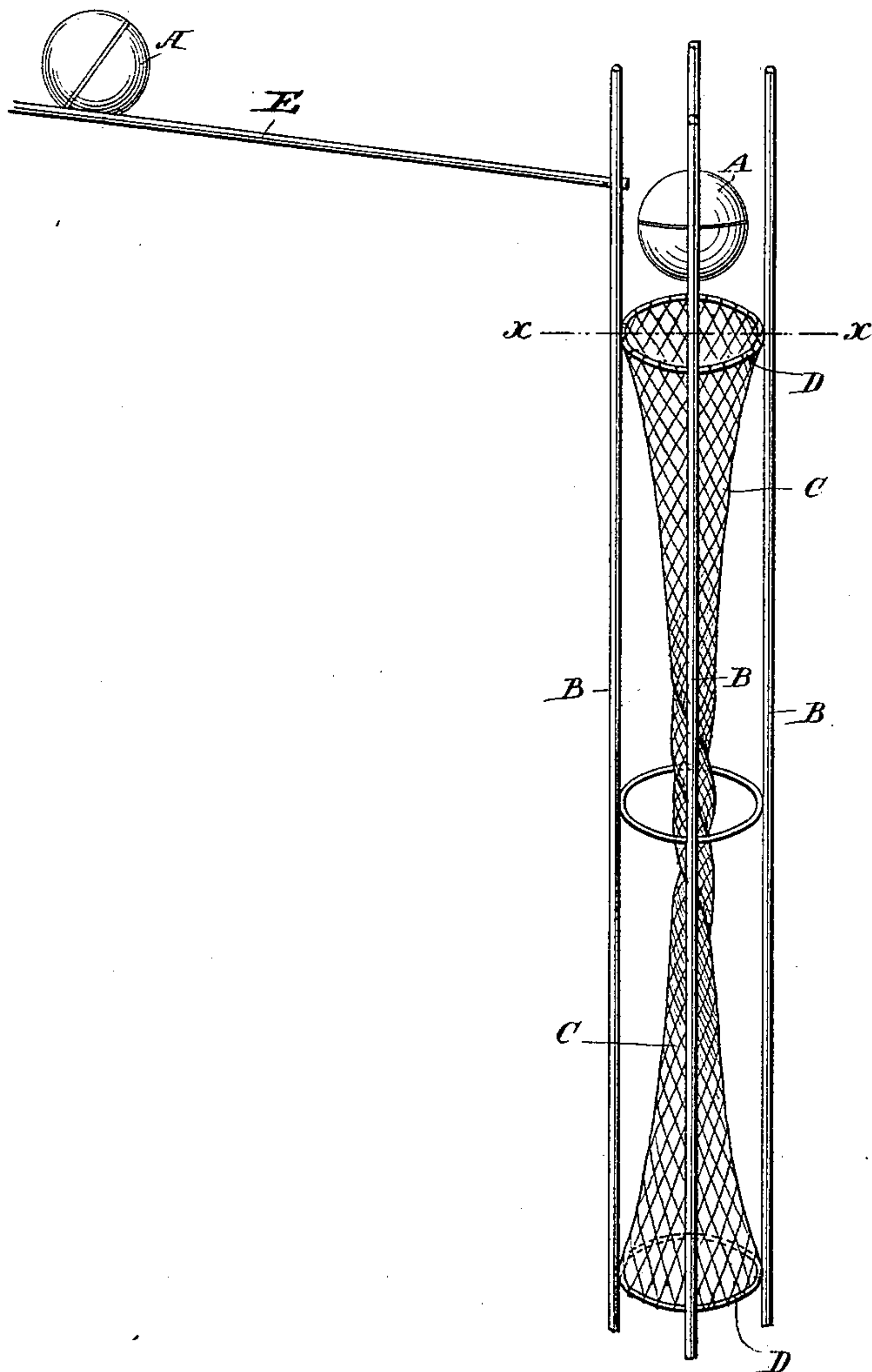


Fig. 1.

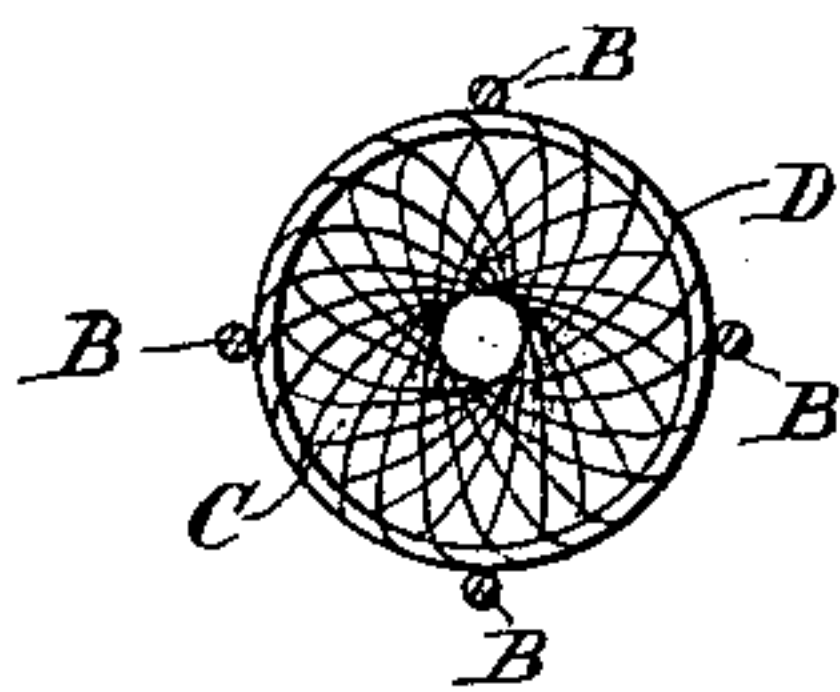


Fig. 2.

Witnesses.
Sidney L. Johnson.
H. S. McArthur.

F. N. Jones.
Inventor.
By Foster & Freeman
his attys

UNITED STATES PATENT OFFICE.

FREDERICK N. JONES, OF LEEDS, COUNTY OF YORK, ENGLAND, ASSIGNOR
TO WILLIAM STICKNEY LAMSON, OF LOWELL, MASSACHUSETTS.

RETARDING-TUBE FOR CASH-CARRIERS.

SPECIFICATION forming part of Letters Patent No. 391,051, dated October 16, 1888.

Application filed April 24, 1888. Serial No. 271,703. (No model.)

To all whom it may concern:

Be it known that I, FREDERICK NORMAN JONES, a subject of Her Majesty the Queen of Great Britain, residing at Leeds, in the county
5 of York, England, have invented a new and useful Improved Retarding-Tube for Cash or Parcel Carrier Apparatus, of which the following is a specification.

The object of this invention is to retard the
10 fall of the ball or carrier of a cash-carrier apparatus; and to this end the invention consists in employing a tube of net-work or other flexible material, through which the carrier falls, said tube being twisted to form a tortuous pas-
15 sage slightly reduced in area at one or more points, so as to cause a retardation in the travel of the ball or carrier, yet capable of expanding to permit the passage of the latter.

In order that the invention may be clearly
20 understood, reference is made to the accompanying drawings, which form part of this specification, and in which—

Figure 1 is a perspective view of a ball-carrier assumed to be traveling down a frame
25 from a higher to a lower level and just about to enter the retarding-tube. Fig. 2 is a plan view on the line *x x*.

A is the ball-carrier, B the frame work, and
30 C a net-work tube attached at either end to a ring, D. The top ring being secured in position, the lower ring is turned so as to give the desired twist to the net-work tube to form a

contracted and tortuous passage therethrough, and the ring is then secured to the frame-work; or, if the rings are a permanent part of
35 the frame, the net-work may be stretched and twisted and lashed thereto.

The amount of twist and the length of the tube will naturally vary, depending upon the weight of the ball-carrier and the amount of
40 "drop" below the track E that it is desired to deal with. A net-work tube about four inches in diameter and two yards long with a double twist has been found to give good results when dealing with a ball-carrier of three
45 and one-fourth to three and three-fourth inches diameter.

Having thus described the invention, what is claimed is—

In a cash or parcel carrier apparatus, a re-
50 tarding-tube of flexible material twisted to form a contracted tortuous passage there-through, substantially as and for the purpose set forth.

In testimony whereof I have hereunto set my
55 hand in the presence of two subscribing witnesses.

F. N. JONES.

Witnesses:

HERBERT TEALE,
Solicitor, Leeds, England.

WILLIAM VEVERS,
Leeds, Yorkshire, England, his Clerk.