No. 665,182. Patented Jan. 1, 1901.

J. M. COOPER.

CANE DISTRIBUTING DEVICE.

(Application filed Feb. 14, 1898.)

(No Model.) 2 Sheets—Sheet 1.

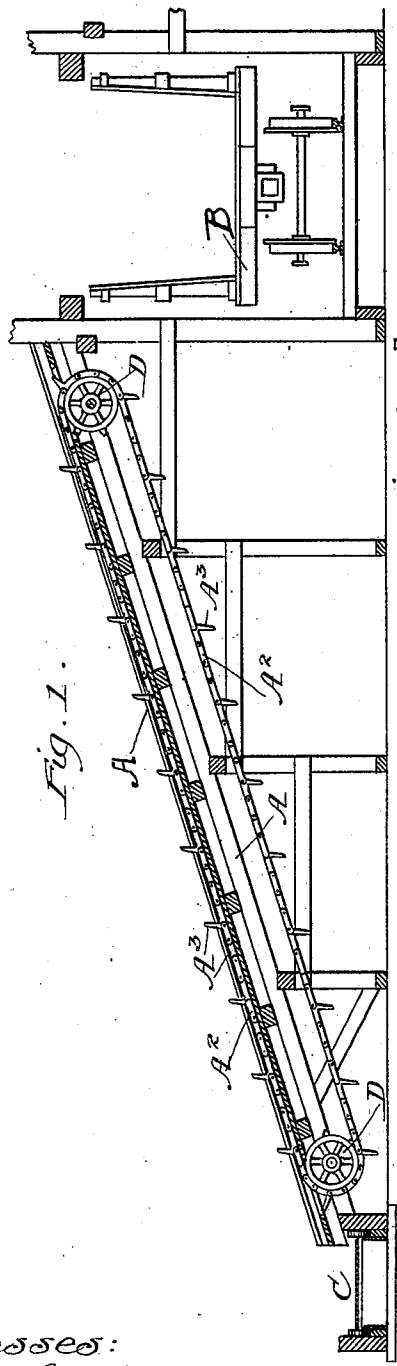


Fig. 1.

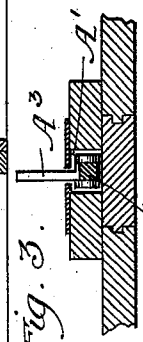


Fig. 3.

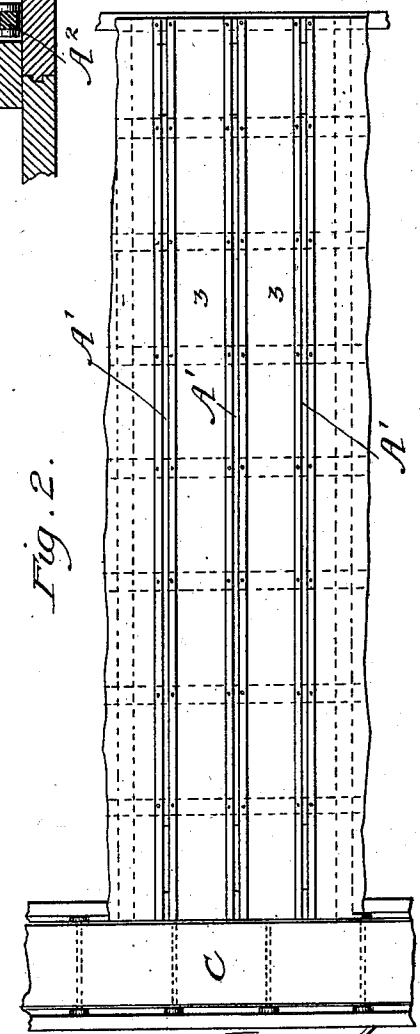


Fig. 2.

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THE NORRIS PETERS CO., PHOTO-LITHO., WASHINGTON, D. C.

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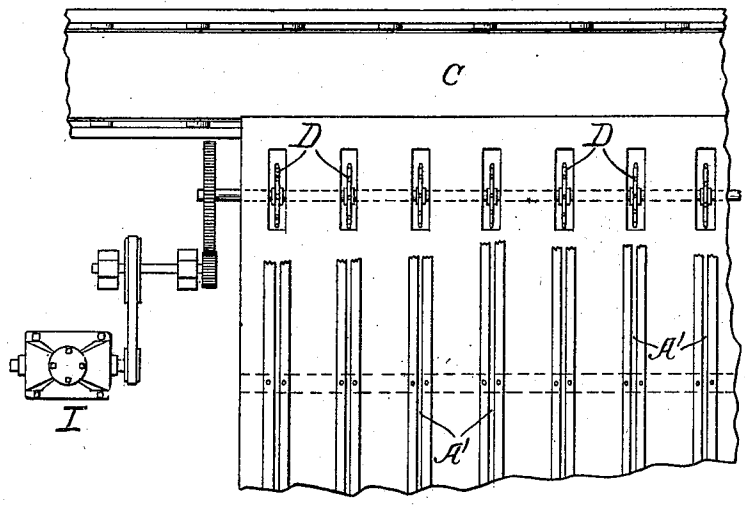


Fig. 4.

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UNITED STATES PATENT OFFICE.

JOHN M. COOPER, OF NEW ORLEANS, LOUISIANA, ASSIGNOR TO THE LINK-BELT MACHINERY COMPANY, OF CHICAGO, ILLINOIS.

CANE-DISTRIBUTING DEVICE.

SPECIFICATION forming part of Letters Patent No. 665,182, dated January 1, 1901.

Application filed February 14, 1898. Serial No. 670,287. (No model.)

To all whom it may concern:

Be it known that I, JOHN M. COOPER, a citizen of the United States, residing at New Orleans, in the parish of Orleans and State of Louisiana, have invented a certain new and useful Improvement in Cane-Distributing Devices, of which the following is a specification.

My invention relates to devices for handling material—such, for example, as sugar-cane—and has for its object to provide a new and improved device for this purpose.

My invention is illustrated in the accompanying drawings, wherein—

Figure 1 shows a sectional view of a device embodying my invention particularly adapted for handling sugar-cane. Fig. 2 is a plan view of Fig. 1. Fig. 3 is a section on line 3 3, Fig. 2. Fig. 4 is a view showing a controlling device operatively connected with the regulating and distributing arms.

Like letters refer to like parts throughout the several figures.

I have shown in the drawings a particular application of my invention in connection with apparatus for handling and distributing sugar-cane.

Referring to Fig. 1, I have shown an inclined platform or table A, adapted to receive the sugar-cane from any desired source—as, for example, the car B—and discharge it upon the cane-carrier C. The cane-carrier C is traveling at a certain predetermined speed, dependent, of course, upon the conditions, and the cane unloaded from the car B is moved along the incline and deposited upon the carrier. It has been found in practice that if an inclined plane alone is used the cane is deposited upon the carrier in large bunches or bundles, thus tending to overload the carrier at points and in many instances necessitating a redistribution of the cane after it has reached the carrier. By means of my invention I am enabled to regulate the feeding and distribute the cane evenly along the carrier in any desired manner and avoid all the difficulties attending the temporary overloading of the carrier.

As illustrated in the drawings, I provide the inclined platform A with a series of slots A^1, in which work a series of chains or other devices A^2, carrying the projecting arms A^3, which project upwardly from the platform, as shown, said arms being moved downwardly therealong when the parts are in operation. I prefer to have these arms inclined in the manner shown, for example, in Fig. 1. When flexible chains are used, I provide a suitable sprocket-wheel D at each end of the platform and use a continuous chain, the chain working on the sprocket-wheels, as shown. The several sprocket-wheels at one end of the platform may be connected together or may be arranged so as to be operated from any desired source or in any desired manner. When the chain or other device provided with the projecting arms A^3 is in motion, the movement of the cane along the platform is regulated and controlled so as to prevent large bunches from sliding onto the carrier, the cane being distributed over the platform and thus being discharged in small quantities upon the carrier, so as to be properly distributed thereon or at least so as to prevent, large accumulations at one place.

In Fig. 4 I have shown the chains or devices A^2, carrying the projecting arms A^3, as connected with the engine I, so as to be controlled thereby. It is of course evident that any other controlling means may be used. This engine or other controlling means acts to move the chains A^2 and arms A^3 down the incline in a predetermined substantially uniform manner, so as to insure the proper regulation of the feeding of the cane to the carrier.

I have shown a simple use of my device in order to make its application clear; but it is of course evident that it may be used in various constructions or mechanisms. I have also described in detail the particular construction shown in the drawings; but it is of course evident that the form, construction, and arrangement of the several parts may be varied without departing from the spirit of my invention, and I therefore do not wish to be limited in any manner by the construction shown.

I claim—

A device for handling cane and the like, comprising an inclined platform down which the cane moves, a receiving device into which

said cane is discharged from the platform, a series of arms projecting above the surface of said platform and adapted to engage the cane or other material and regulate its movement therealong, means for moving said arms downwardly along said platform so that the discharge of the cane from the platform to the receiving device is regulated so as to prevent an unequal discharge.

JOHN M. COOPER.

Witnesses:
C. T. PATTERSON,
J. G. MARSH.