

Apr. 10, 1923.

M. CASAMAYOR

1,451,324

SLING RELEASER FOR TRANSPORTING APPARATUS

Filed Nov. 7, 1921

Fig. 1

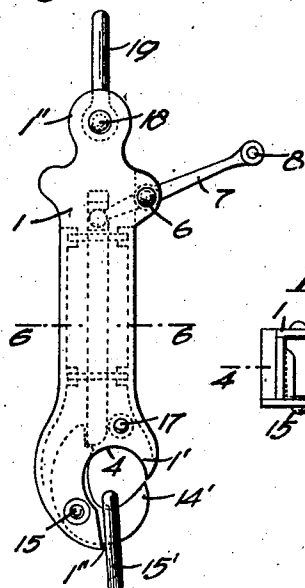


Fig. 2

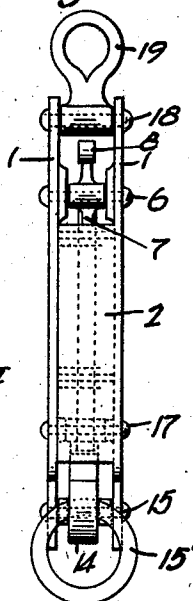


Fig. 3

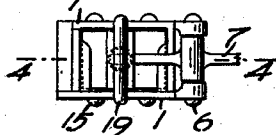


Fig. 4

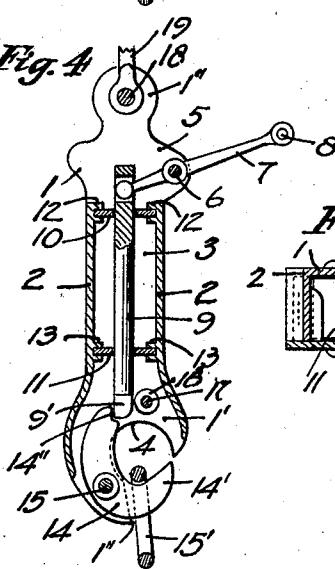


Fig. 6

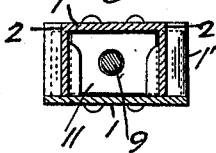
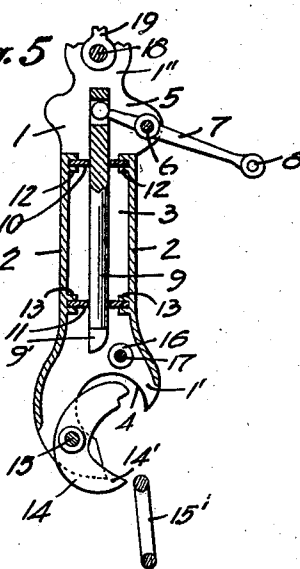


Fig. 5



Inventor

Marcos Casamayor.

B. Singer,

Attorney

UNITED STATES PATENT OFFICE.

MARCOS CASAMAYOR, OF MANZANILLO, CUBA.

SLING RELEASER FOR TRANSPORTING APPARATUS.

Application filed November 7, 1921. Serial No. 513,565.

To all whom it may concern:

Be it known that I, MARCOS CASAMAYOR, a subject of the King of Spain, and resident at Manzanillo, Province of Oriente, Cuba (whose post-office address is No. 67 Luz Caballero Street, Manzanillo, Province of Oriente, Cuba), have invented certain new and useful Improvements in a Sling Releaser for Transporting Apparatus, of which the following is a specification.

This invention relates to a sling releaser applied particularly to the transporting apparatus used for carrying the sugar cane from the carts to the railroad cars or wagons and its object is to provide a sling releasing hook of improved construction which is highly efficient in its operation owing to the safety of its securing action and the difficulty of being occasionally released, and rendering its operation substantially automatic.

Other advantages and considerations will be evident during the course of this specification to those experts in the art to which the invention relates, reference being had to the figures of the annexed drawings in which the same reference characters indicate the same parts throughout the various figures.

In the annexed drawings:—

Fig. 1 is a side elevation of the sling releaser forming the subject matter of this invention.

Fig. 2 is a rear elevation thereof.

Fig. 3 is an upper plan view of said releaser.

Fig. 4 is a vertical section on line 4—4 of Fig. 3.

Fig. 5 represents in the same vertical section an operative position of the sling releaser.

Fig. 6 is a transverse horizontal section on line 6—6 of Fig. 1.

This sling releaser comprises a casing of rectangular cross section formed by two side plates 1 separated apart by end plates 2 which are shorter lowerly and upperly than the plates 1 with which they are connected by means of screws entering on the edges or in any other proper manner, there being between these plates a hollow space 3. Each one of plates 1 terminates lowerly in an enlargement 1' presenting a cut in the shape of circular segment 4 terminating at its lower pending portion in a flat recess 1'' and the end plates 2 are at its lower

portion of outer convex curved shape so as to be adapted to the outer contour of the enlargements 1'. Laterally to its inner upper part beyond the end plate 2, the plates 4 present lugs 5 projecting outwards and between the same is fixed a horizontal pin 6 on which is pivotally mounted a lever 7 which at its longer portion terminates in a loop 8 serving to tie therethrough the cord for the releasing pull and its shorter portion extends between the plates 1, its end being articulated in a slot in the upper part of a vertical bolt 9 which slidably passes through horizontal guiding plates 10 and 11 which fit in slots in shoulders 12 and 13 of the inner face of the upper end and near the lower curved portion respectively of end plates 2, said bolt 9 terminating lowerly in a head 9' rounded at its inner part and flat at its outer part. Between the enlarged portions 1' of the side plates 1 is mounted a hook 14 on a horizontal pivot 15 which passes through a side point higher than the gravity center of the hook, said hook having the inner edge of its pending portion 14' in concave curved shape corresponding with the curvature of the recess 4 of plates 1 and the raised portion of the hook presents a side angular cut 14'' designed to act as fitting to head 9' of bolt 9 in the securing position of the hook. On the pending portion 14' of the hook normally closing the recess 4 of plates 1 of the casing is secured the staple 15 of the sling. 16 designates a loose roller mounted on a horizontal pin 17 between the enlargements 1' of plates 1 and in frictional contact with head 9' of bolt 9 in the securing position of the same. Plates 1 terminate at their upper end in rounded portions 1'' between which is fixed a pin 18 where is mounted a staple 19 for the suspension of the releaser.

The operation of this sling releaser is as follows: In its securing position the staple 15 of the sling is held by the hook 14 maintained in raised position closing the recess 4 by bolt 9 whose head 9' bears on the angular cut 14'' being sufficient to pull the releasing cord pending from the outer end of lever 7 so as to raise the bolt 9 leaving free the hook 14 which will gyrate around the pivot 15 downwards and leaving free the staple 15 of the recess 4 and accordingly letting fall down the load suddenly.

It is obvious that the form of the vari-

ous parts of the releaser can be varied without altering the spirit of the invention, which is as set forth in the appended claims.

What I claim is:—

- 5 1. A sling releaser for transporting apparatus, comprising a main body presenting a hollow space along which are guides between which slides a bolt, a hook pivoted
10 at the lower part of such body at a point higher than its gravity center and which presents an angular cut at its upper end for adjusting with the lower end of the bolt; a lever pivoted on the upper part of said
15 main body and articulated at one end to the upper end of the bolt and from the opposite end pending a cord for the releasing pull and an element maintaining frictionally the lower end of the bolt against the
20 cut in the hook in the securing position of the releaser.

2. A sling releaser for transporting apparatus, comprising a main body presenting an inner hollow body and plates horizontally and rigidly arranged inside provided with guiding seats; a bolt terminat-

ing lowerly in an enlarged head beveled at its outer face, sliding vertically through the guide openings of the plates; a lever pivoted at the upper part of the main body and an end portion being extended into the
30 main body for being articulated with the upper end of the bolt and pending from its opposite end a cord for the releasing pull; a hook pivoted in the lower part of the main body at a point in said hook which
35 is higher than the gravity center thereof, the hook presenting the inner edge of its pending portion closing a recess in the form of circular segment formed at the lower part and towards the front of each side of
40 the main body so as to hold in that position the staple of sling suspended and in which position fits the head of the bolt with an angular cut formed laterally on the upper
45 end of the hook and a roller loosely mounted on the lower part of the main body in frictional contact with the lower end of the bolt in the securing position of the releaser.

In witness whereof I affix my signature.

MARCOS CASAMAYOR.