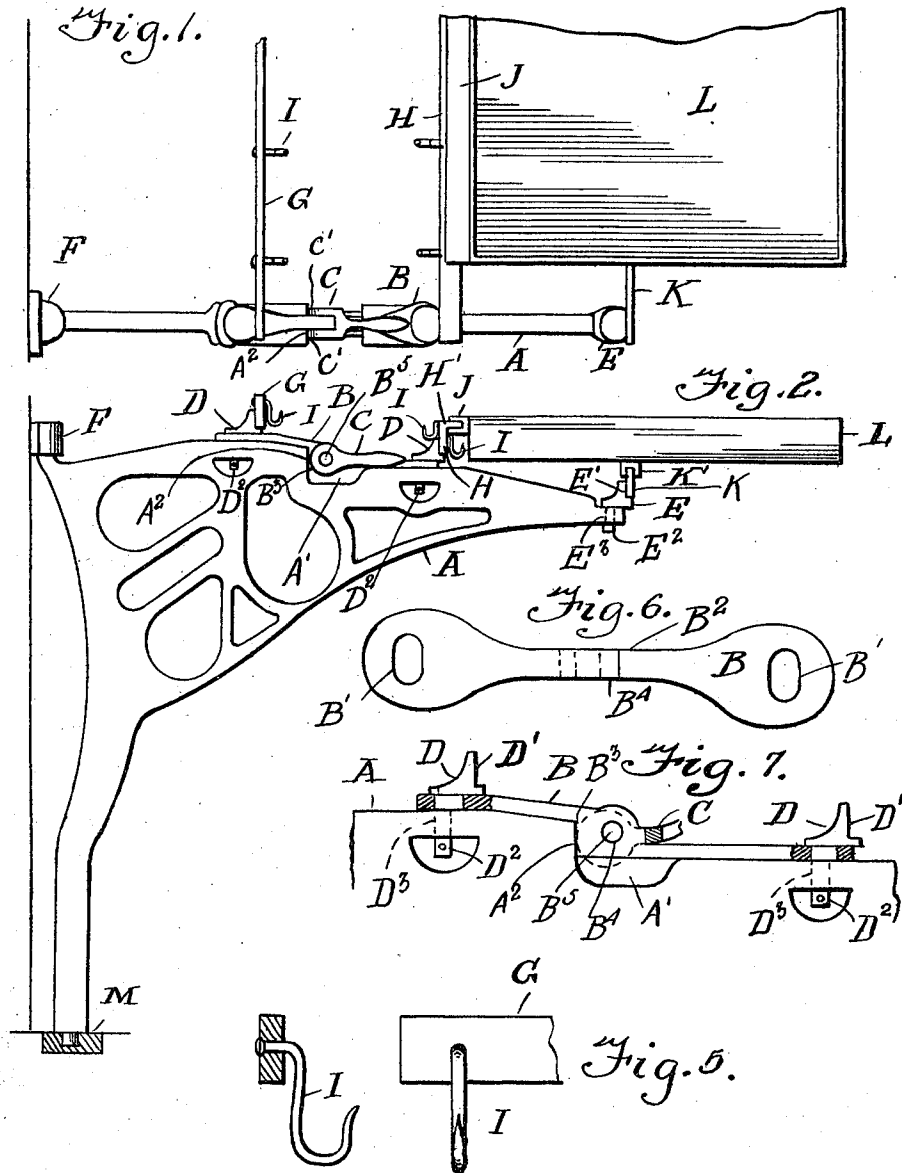


A. MARTI.
MAIL CAR BAG RACK.
APPLICATION FILED OCT. 24, 1910.

1,002,168.

Patented Aug. 29, 1911.

3 SHEETS—SHEET 1.



WITNESSES
B. M. Spring.
A. E. Buckley.

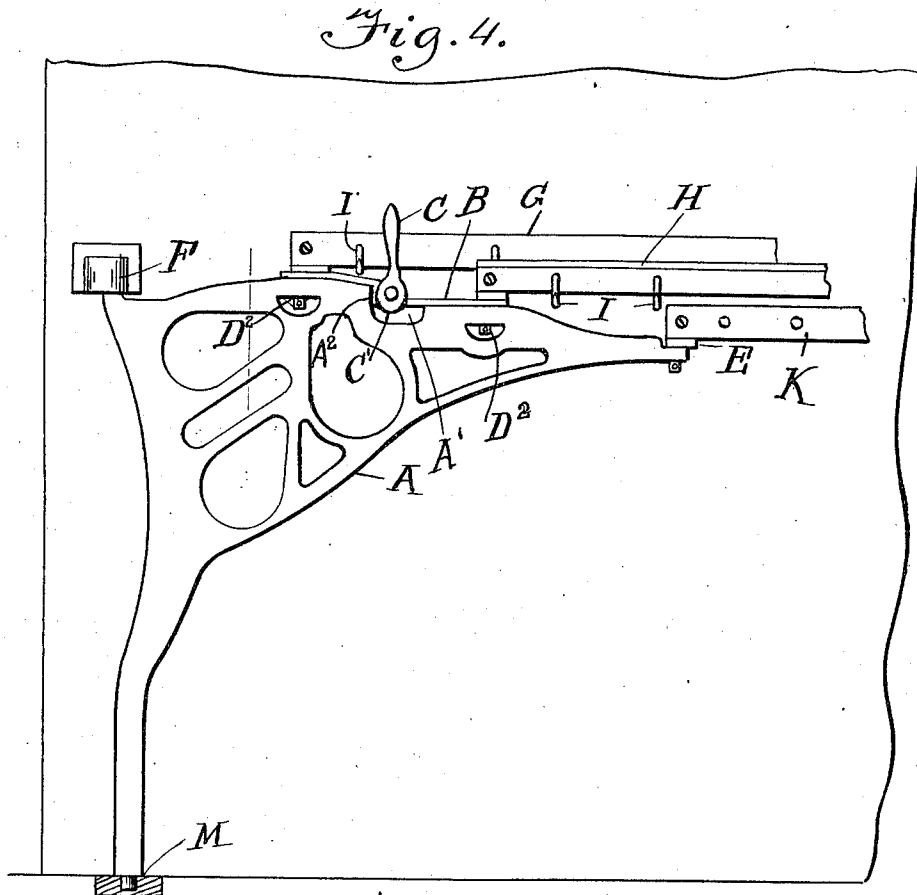
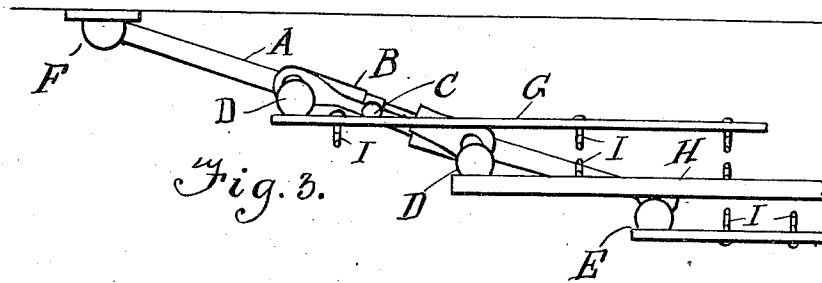
INVENTOR
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by Frank H. Hallen, Jr.,
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3 SHEETS—SHEET 2.



WITNESSES
G. M. Spring.
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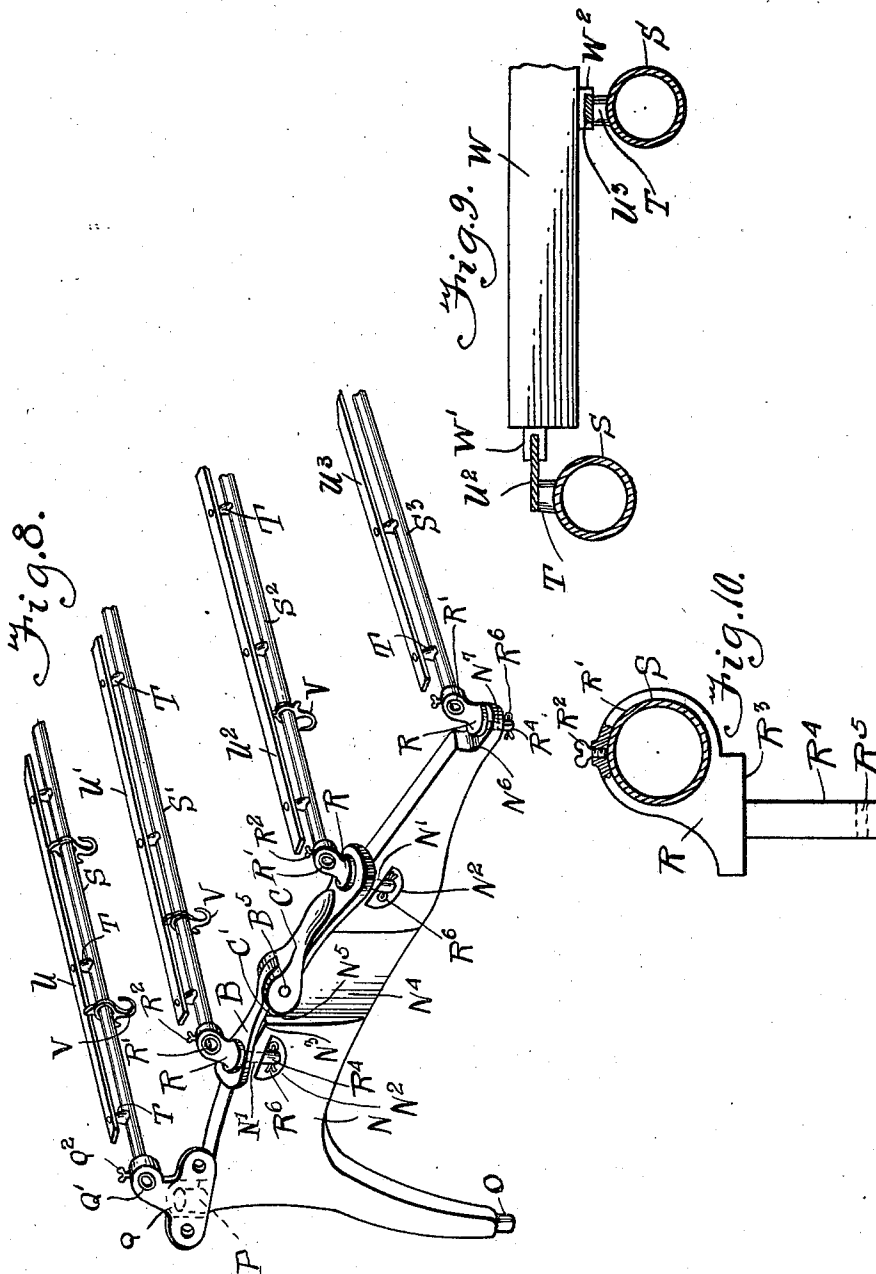
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3 SHEETS-SHEET 3.



Witnesses,

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UNITED STATES PATENT OFFICE.

ALBERT MARTI, OF FOND DU LAC, WISCONSIN.

MAIL-CAR BAG-RACK.

1,002,168.

Specification of Letters Patent. **Patented Aug. 29, 1911.**

Application filed October 24, 1910. Serial No. 588,802.

To all whom it may concern:

Be it known that I, ALBERT MARTI, a citizen of the United States of America, and resident of Fond du Lac, in the county of Fond du Lac and State of Wisconsin, have invented certain new and useful Improvements in Mail-Car Bag-Racks, of which the following is a specification.

My invention relates to improvements in mail bag racks especially adapted for use on railway cars.

The invention has for its object, among other things, to provide for the ready folding or collapsing of the rack so that it will be out of the way when not required for use.

A further object of the invention is to swiftly support in a convenient position the letter tray or holder for assorting mail matter and to provide for the ready removal and replacement of the tray.

Other objects and advantages of my invention will appear in the course of the following specification.

In the accompanying drawings: Figure 1 is a top plan view of one form of my mail bag rack, one end thereof being broken away; Fig. 2 is a side elevation of the same; Fig. 3 is a top plan view of the rack; one end thereof being broken away, with the tray removed and the rack swung or folded to one side; Fig. 4 is a front elevation of the folded rack shown in Fig. 3; Fig. 5 is a side view and a front view of one of the mail bag suspending hooks; Fig. 6 is a plan view of the locking bar or member; Fig. 7 is a view, partly in section, taken through the locking member and its cooperating and contiguous parts as illustrated in Fig. 1; Fig. 8 is a perspective view of a modified form of my mail bag rack, one end thereof being broken away; Fig. 9 is a side sectional view of the tray supporting bars showing the tray mounted thereon; and Fig. 10 is a side view of one of the tube supporters showing the same with a tube clamped therein.

Referring to the drawings, A designates a bracket which is pivotally supported in position as shown at F and M to admit of a lateral swinging movement of the bracket. Suitably supported in position upon the bracket A are horizontal bars G and H, the ends of which are secured in right angular cut-out portions D' in supporters D. The supporters D are provided with depending cylindrical shank portions D² which are seated in vertical holes D³ in the bracket A.

By this arrangement, it will be apparent that when the rack is not in use, as the bracket A is swung laterally, the supporters D will pivot in the holes D³ and permit the bars G and H to turn or swing to the folded or collapsed position as best seen in Fig. 3. The bars G and H have removably connected thereto hooks I for readily suspending the mail bags or sacks in position. The bag or pouch suspending hooks I are readily removable in any suitable manner, preferably as shown in Fig. 5, for the ready renewal of said hooks.

A tray L for holding the mail to be assorted is suitably supported in position upon the cross bar H, which is preferably right angular in cross section, and upon a bar K. The bar K is mounted in the cut-out portion E' in a supporter E. The supporter E is provided with a depending cylindrical shank portion E², which pivots in a vertical hole E³ in a cut-out portion in the extreme forward end of the bracket A. The rear end of the tray L is provided with a horizontally-extending grooved bar J into the groove of which fits the horizontal portion H' of the right angular bar H, as best seen in Fig. 2. Centrally of the lower side or bottom of the tray L is secured a longitudinally-extending grooved pendent K' into the groove of which fits the upper edge of the bar K. By this arrangement it will be noted that the tray may be readily applied or disposed in position when required for use, or removed when not in use, as when the bracket A and bars G, H and K are folded back out of the way.

A locking bar B, disclosed in Fig. 6, is adapted to be applied to the supporters D, said locking bar having apertures B', one at each end through which pass the shanks D² of the supporters D. Intermediate its ends the locking bar is provided with a reduced portion B² which rests on a reduced portion A' of bracket A. As illustrated, at the forward end of the reduced portion A' the bracket A is shouldered at A² and in order to adapt it to conform to this shoulder A² the locking bar B is shouldered at B³. Contiguous the shoulder B³ is a transverse hole B⁴ in which is positioned a pivot B⁵ to fulcrum a bifurcated cam lever C which straddles the reduced portion B² of the locking bar B. The ends of the bifurcated portion of the lever C are each provided with cam edges C' adapted to engage the shouldered

portion A² of the bracket A at the reduced portion A'.

As shown in Fig. 2 the cam edges C' are adapted to engage the shoulder A² of the bracket A thereby moving the locking bar B longitudinally of the bracket A on which it is mounted and causing one side of each aperture B' to engage the shank D² of each supporter D with sufficient pressure to prevent the supporters D from turning and hence holding the cross bars G and H firmly in position.

When the lever is in the position indicated in Fig. 4, the parts may be readily folded back out of the way, it being understood the letter tray L has previously been removed from the bars H and K.

Figs. 8 to 12, both inclusive, of the drawings illustrate a modified form of my invention in which N represents the bracket, the lower end of which is rounded and pivotally mounted at O in the floor or other support. The upper end of the bracket is provided with an upwardly extending rounded projection P which is pivotally mounted in a socket in a bracket Q, which is suitably secured to the wall of the car or other place where it is mounted. The top of the bracket Q is provided with a circular aperture Q' into which extends a set screw Q² for a purpose to be hereinafter explained. The top of the bracket N, intermediate its ends, is provided with vertical holes N' which open into semi-circular apertures N². Pivotaly mounted one in each hole N' are tube or rod supporters R. Each supporter is provided with a body portion having a circular aperture R' therein, and a set screw R² works into the circular aperture R' for a purpose to be hereinafter explained. The body portion of each supporter is abruptly shouldered at R³ and depending centrally from said shouldered portion is a cylindrical shank R⁴ which passes through one of the holes N' and projects into one of the apertures N². The lower end of each shank R⁴ is provided with a transverse hole R⁵ through which is projected a cotter pin R⁶ to prevent accidental withdrawal of the supporter R. Intermediate the vertical holes N' the bracket N is shouldered or cut down at right angles at N³ and the portion contiguous the cut down portion is reduced in thickness as at N⁴ whereby outstanding abutments N⁵ are formed. Positioned on top of the bracket N is a locking bar B, which is similar to the one shown in Fig. 6 and previously described, and hence the same reference letters hertofore used will be applied to the locking bar used in the modification disclosed in Figs. 8 to 12, both inclusive. The shanks R⁴ of the supporters R pass through the apertures B' in the locking bar and the reduced portion B² of the locking bar lies over the reduced portion

N⁴ of the bracket N with the right angular portion B³ of the bar resting in the right angular portion N³ of the bracket N. The locking bar is operated by means of a cam lever C, which is similar to the lever shown in connection with that form of my mail bag rack illustrated in Figs. 1 to 7, both inclusive, and hence the same reference letters are used in this modification. The extreme forward end of the bracket N is provided with a cut-out portion N⁶ and centrally thereof is a vertical hole N⁷ in which is positioned a supporter R which is similar to the type shown in Fig. 10, and hence has the same reference numerals applied thereto.

Secured in the circular aperture Q' in the bracket Q and in the circular apertures R' in the supporters R are tubes S, S', S² and S³, respectively, which are securely clamped in position by means of their respective set screws Q² and R². Supported just above the tubes S, S', S² and S³ by means of preferably removable lugs or spacers T are flat bars U, U', U² and U³. Encircling and freely movable on the tubes S, S', and S² are hooks V designed to support bags or sacks.

A tray W is provided with a grooved bar W' extending longitudinally of its rear face and a grooved bar W² mounted longitudinally of its lower face or bottom is designed, when in position, to have the bar U² carried by the tube S² fit in the groove in the bar W' at the rear of the tray and the bar U³ carried by the tube S³ fit in the groove in bar W². As is the case with the tray L shown in the other form of my invention, the tray W can be readily placed in position and removed.

In each form of my invention I have shown only one bracket A and N respectively, as the other bracket and connections at the other end of the rack in each instance are similar in all respects to the ones illustrated, and hence have not been shown as it would be a mere duplication to do so.

The form of my invention in which tubing is employed has obvious advantages among which is the lightness secured and the fact that the hooks V are readily movable thereon.

I claim—

1. In a device of the character described, a movably mounted bracket, supporters, shanks carried by said supporters, said shanks being pivotally mounted on said bracket, cross arms carried by said supporters, a locking bar provided with apertures through which said shanks project, a cam lever fulcrumed to said locking bar, and a bearing for the cam of said lever carried by said bracket whereby when said lever is moved to cause said cam to engage said bearing said locking bar will engage the shanks of said supporters to hold them stationary,

and said cross arms in the desired relative position.

2. In a device of the character described, a movably mounted bracket, spaced apart
5 supporters pivotally mounted on said bracket, cross arms carried by said supporters, a shouldered portion carried by said bracket, a locking bar in engagement with a plurality of said pivotally mounted supporters,
10 a shouldered portion carried by said locking bar and disposed opposite the shouldered portion of said bracket, a cam pivotally mounted on said locking bar in operative relation to the shouldered portion of
15 said bracket, and means for moving said cam in and out of engagement with the shouldered portion of said bracket to cause said locking bar to lock or unlock said pivotally mounted supporters.

20 3. In a device of the character described, a movably mounted bracket, cross arms

spaced apart longitudinally of said bracket, means for movably mounting said cross arms on said bracket, a bearing carried by
said bracket, a locking bar arranged longitudinally of said bracket, said locking bar
25 loosely engaging a plurality of said means for movably mounting said cross arms, and releasable engaging means carried by said locking bar, said releasable engaging means
30 being adapted to engage the bearing carried by said bracket to move said locking bar longitudinally of said bracket to engage said movable mounting means to hold said cross arms stationary.

35 In witness whereof, I hereunto affix my signature in the presence of two witnesses.

ALBERT MARTI.

Witnesses:

O. H. ECKE,
W. W. HUGHES.

Copies of this patent may be obtained for five cents each, by addressing the "Commissioner of Patents, Washington, D. C."