

S. KRNA.  
FOLDABLE AMBULANCE.  
APPLICATION FILED JULY 3, 1914.

1,128,333.

Patented Feb. 16, 1915.

4 SHEETS-SHEET 1.

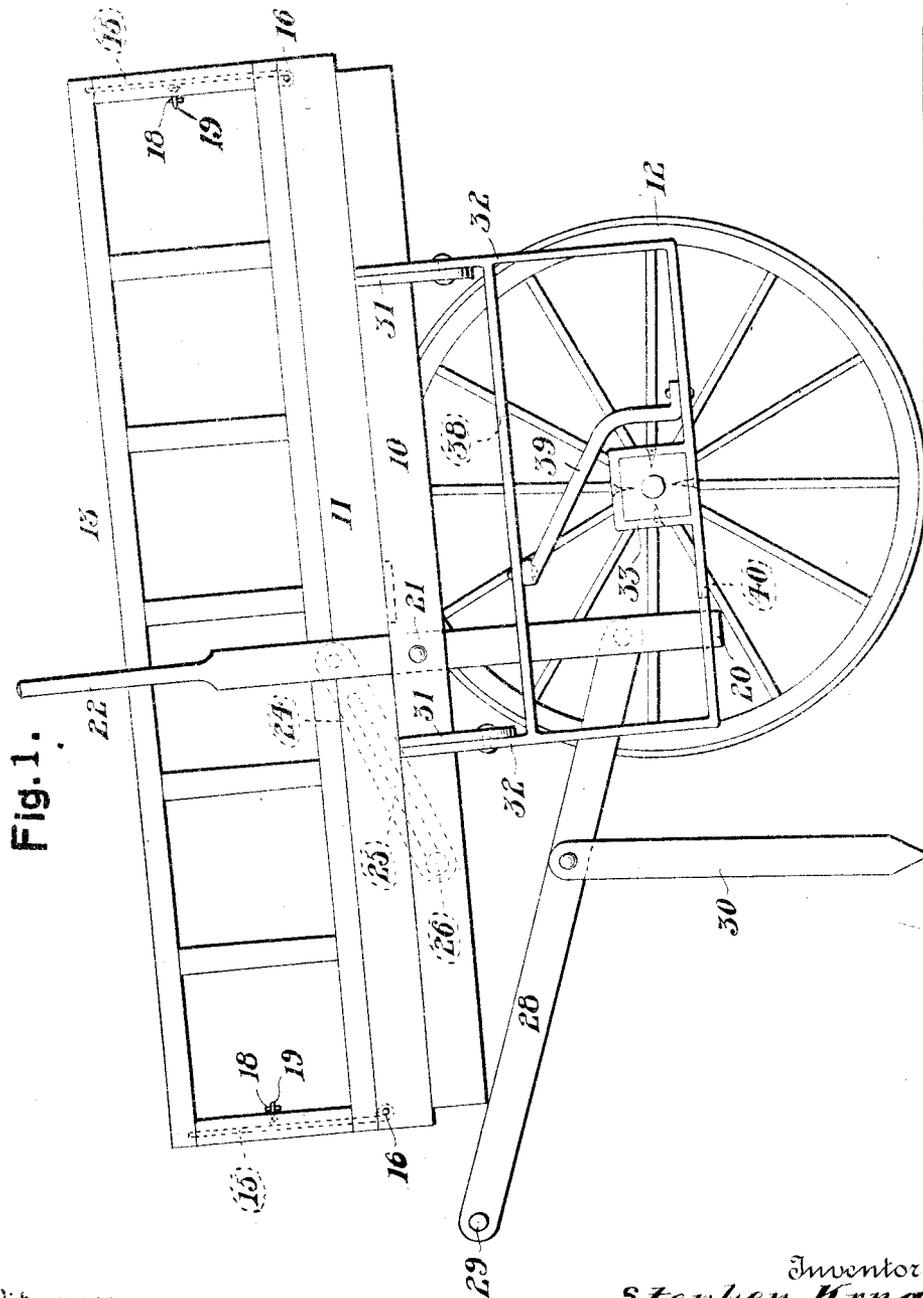


Fig. 1.

Witnesses  
H. B. Kovalik

D. W. Bryant

Inventor  
Stephen Krna

A. M. Wilson  
Attorney

33

1,128,333.

Patented Feb. 16, 1915.

4 SHEETS-SHEET 2.

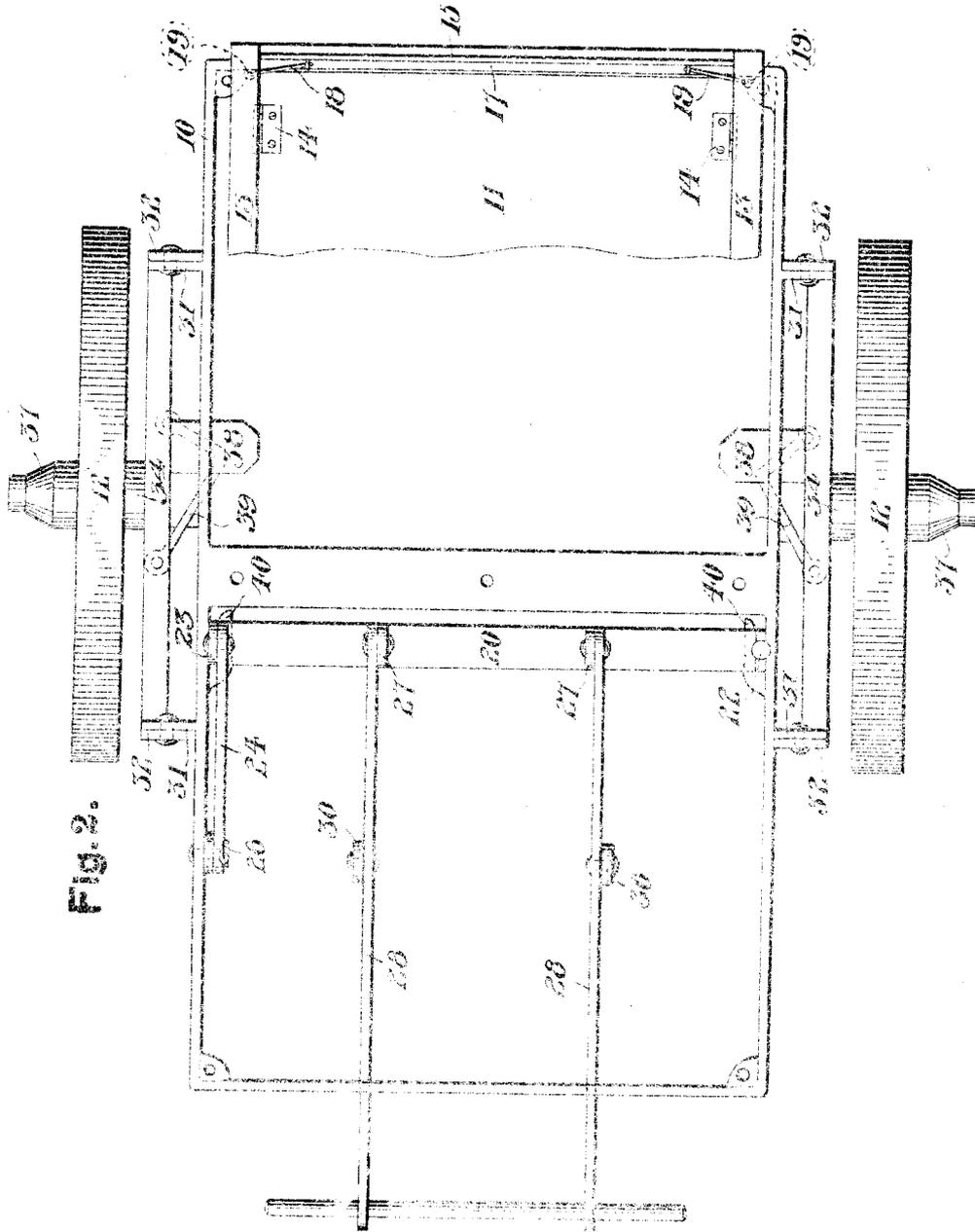


Fig. 2.

Witnesses  
H. B. Korahk  
P. S. Pruzank

Inventor  
Stephen K. Krna  
A. M. Wilson  
Attorneys

1,128,333.

Patented Feb. 16, 1915.  
 4 SHEETS—SHEET 3.

Fig. 3.

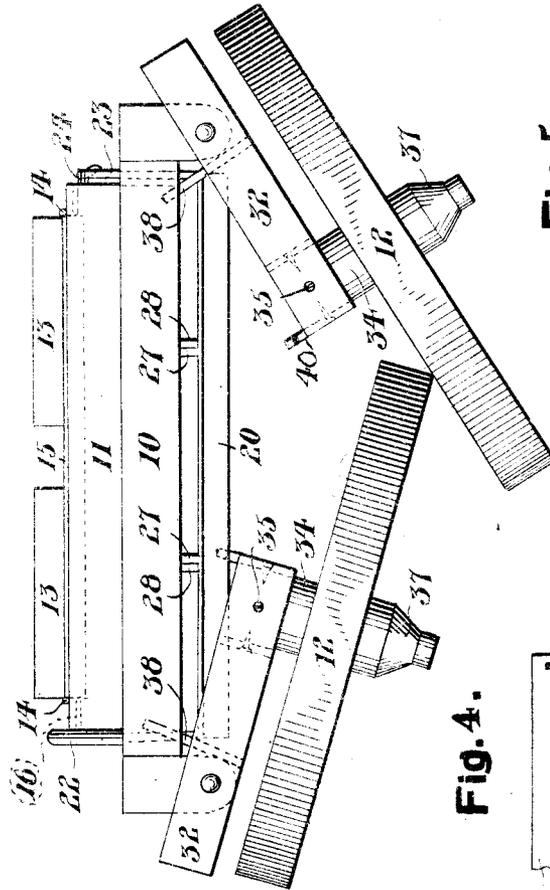


Fig. 4.

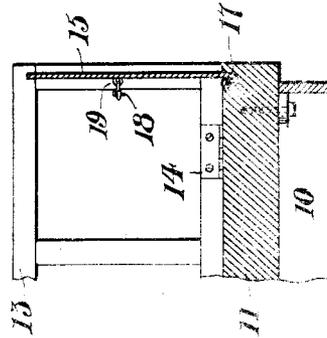
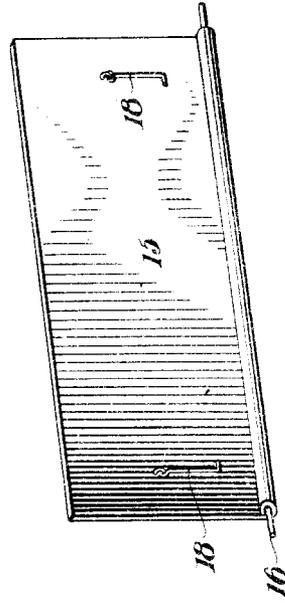


Fig. 5.



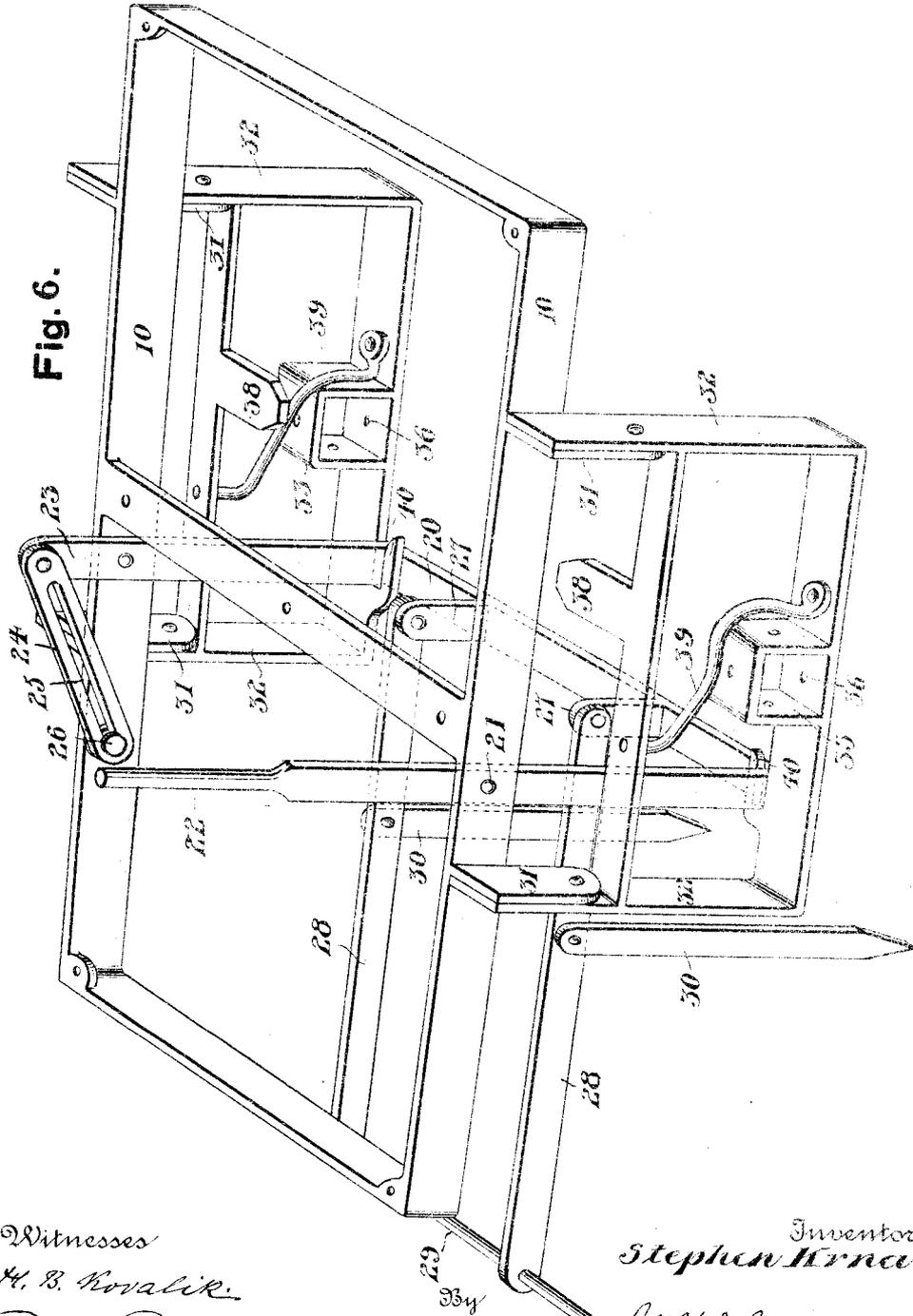
Witnesses  
 H. B. Kovalik  
 T. A. Bryant

334

Inventor  
 Stephen Krna  
 A. M. Wilson  
 Attorney

1,128,333.

Patented Feb. 16, 1915.  
4 SHEETS—SHEET 4.



Witnesses  
H. B. Kovalik.  
D. A. Bryant.

Inventor  
Stephen Krna  
A. M. Wilson  
Attorney

# UNITED STATES PATENT OFFICE.

STEPHEN KRNA, OF BINGHAMTON, NEW YORK.

FOLDABLE AMBULANCE.

1,128,333.

Specification of Letters Patent.

Patented Feb. 16, 1915.

Application filed July 3, 1914. Serial No. 848,793.

*To all whom it may concern:*

Be it known that I, STEPHEN KRNA, a citizen of the United States, and residing at Binghamton, in the county of Broome and State of New York, have invented certain new and useful Improvements in Foldable Ambulances, of which the following is a specification.

This invention relates to certain new and useful improvements in foldable ambulance.

The primary object of this invention is to provide a wheeled ambulance for carrying a number of sick or injured persons at one time and being so constructed that the wheels and running gear as well as the ambulance body are foldable to a knocked-down position.

A further object is to provide a wheeled ambulance, the wheels and running gear of which may be folded and unfolded by the operation of a single lever.

A still further object is to provide an ambulance body having the sides thereof inwardly foldable to flat positions and having a lever-operated foldable running gear and traction wheels, which wheels are positioned inwardly beneath the ambulance body when the device is in its folded or knocked-down position.

With these general objects in view and others that will appear as the nature of the invention is better understood, the same consists in the novel construction, combination and arrangement of parts as hereinafter more fully described, illustrated in the accompanying drawings, and pointed out in the appended claims.

In the accompanying drawings forming a part of this application and wherein like numerals of reference designate corresponding parts throughout the several views:—  
Figure 1 is a side elevation of the device with one of the wheels removed therefrom.  
Fig. 2 is a top plan view thereof with a portion of the body broken away. Fig. 3 is a rear elevation of the device in its folded position. Fig. 4 is a detail view partially in section of a corner of the ambulance body, with the sides thereof positioned for use.  
Fig. 5 is a perspective view of one of the end gates of the ambulance body, and, Fig. 6 is a perspective view of the complete frame-work of the ambulance with the wheels and body removed therefrom.

Referring more in detail to the drawings it will be noted that the invention broadly consists in a rectangular frame-work 10 preferably constructed of metal and adapted to support a foldable ambulance body having the bottom 11 thereof secured to said frame and also provided with two oppositely-positioned traction wheels 12 and by means of which the ambulance is moved about.

The ambulance body consists of the said bottom having sides 13 secured thereto by hinges 14 and adapted to fold inwardly, flatly engaging the upper surface of the bottom as illustrated in Fig. 3, while the end gates 15 are pivoted upon rods 16 secured for rotation within transverse grooves 17 in the upper surface of the bottom 11 and at the opposite ends thereof. The gates 15 are provided with hooks 18 adapted for reception within eyes 19 carried by the sides 13 when the ambulance body is assembled for use as illustrated in Figs. 1 and 2 while in folded relations, the end gates 15 are inwardly positioned, flatly engaging the upper surface of the bottom 11 and lying beneath the inwardly-folded sides 13.

A U-shaped support 20 is pivoted as at 21 at opposite points within the rectangular frame 10 and one end of said support is provided with an operating handle 22, whereby the support is moved upon the pivots 21. The other end of the support 20 is provided with an extension 23 oppositely-positioned and parallel to the handle 22, and has the link 24 pivoted to the free end thereof and provided with a longitudinal slot 25 slidably-mounted upon the pin 26 carried by the frame 10. By this construction, it will be seen that the forward pivotal movement of the support 20 is limited by this link and pin connection.

The support 20 is provided with perpendicularly-projecting lugs 27 to which are pivoted the opposite arms 28 of a tongue or drawing handle 29 while pivoted legs 30 are carried by the members 28 and adapted to be positioned vertically upon the ground, and thereby maintain the frame 10 in a horizontal position and with the forward end of said frame resting upon said members 28.

The frame 10 is provided with spaced projecting ears 31 exteriorly of its opposite sides and to each pair of ears is pivoted a rectangular frame 32 adapted to be posi-

tioned perpendicularly to the frame 10, but capable of pivotal movement inwardly beneath the said frame. Housings 22 are carried by the frames 32 while blocks 34 are secured therein by means of suitable hold-fast devices, such as the screws 35 which extend through the perforations 36 of said housings. The blocks 34 are provided with outwardly-extending axles 37 secured thereto and upon these axles, the said traction wheels 12 are journaled for revolution.

The frames 32 are each provided with inwardly projecting tapered arms 38 which upon a forward movement of the lever handle 22 toward the handle 29 engage the sides of the support 20 with the said arms, and thereby draw the frames 32 with the wheels 13 inwardly and beneath the ambulance body as illustrated in Fig. 3. A rearward and upward movement of the handle 22 when the device is folded, releases the engagement between the frame 20 and the arms 38, thus allowing the side frames 32 to assume their vertical positions while the corner portions of the support 20 also slidably engage the angularly-positioned braces 39 and tend to force the said frames 32 in position perpendicular to the frame 10, it being noted that the frames 32 are provided with inwardly-projecting stop hooks 40 for the reception of the opposite sides of the support 20, and thus maintaining the parallel sides of said support perpendicular to the sides of the frame 10. It will thus be seen that the stop fingers 40 cooperate with the link 24 and pin 26 to limit the pivotal movement of the support 20, while the forward impulse imparted to the handle 29 tends to maintain the said support vertically and in its operative position, and with the traction wheels 12 operatively positioned upon the ground and beneath the ambulance body.

It is thought that the complete operation of the device will be apparent from the present detailed description in that with the elements positioned as illustrated in Fig. 1, the end gates and sides of the body are readily folded inwardly upon each other while a forward movement of the lever handle 22 forces rearwardly the tongue or drawing device of the ambulance, and in a folded position beneath the body and with the frames 32 and the traction wheels also inwardly folded therebeneath as illustrated in Fig. 3. It will be also evident that a substantial reversal of these movements reposition the ambulance in its operative form as illustrated in Fig. 1, and in which position a number of sick, injured, or dead persons may be placed in the ambulance to be conveyed thereby as desired.

While I have herein shown the preferred embodiment of the invention, I do not wish

to confine myself to the exact details of construction shown, as various forms, modifications and arrangement of the parts as shown may be had without departing from the spirit and scope of the invention as claimed.

What I claim as new is:—

1. An ambulance comprising a rectangular frame, a foldable body carried by said frame, oppositely positioned wheel carrying means pivoted exteriorly to said frame, a U-shaped support pivoted within said frame and having a projecting operating handle, said means provided with inwardly-projecting tapered arms adapted for engagement by said support upon a movement of said handle in the folding operation.

2. An ambulance comprising a rectangular frame, a foldable body carried by said frame, oppositely positioned wheel carrying means pivoted exteriorly to said frame, a U-shaped support pivoted within said frame and having a projecting operating handle, said means provided with inwardly-projecting tapered arms adapted for engagement by said support upon a movement of said handle in the folding operation, a forwardly-projecting tongue pivoted to said support, downwardly-extending legs pivoted to said tongue, and means for limiting the unfolding pivotal movement of said support and wheel-carrying means.

3. A device of the class described comprising an ambulance body, a rectangular frame secured therebeneath and projecting at opposite sides thereof, a U-shaped support pivoted within said frame and having upward extensions between the sides of said frame and the outer sides of said body, one of said extensions adapted as an operating handle for said frame, a limiting link pivoted to the free end of the other extension and provided with a longitudinal slot, a lug carried by the frame and engaging said slot, a tongue pivoted to said support and forwardly extending beneath said frame, and wheeled-carrying means pivoted to said frame and adapted for inwardly folding therebeneath upon the forward movement of said operating handle.

4. A device of the class described comprising an ambulance body, a rectangular frame secured therebeneath and projecting at opposite sides thereof, a U-shaped support pivoted within said frame and having upward extensions between the sides of said frame and the outer sides of said body, one of said extensions adapted as an operating handle for said frame, a limiting link pivoted to the free end of the other extension and provided with a longitudinal slot, a lug carried by the frame and engaging said slot, a tongue pivoted to said support and forwardly extending beneath said frame, wheeled-carrying means exteriorly pivoted

to the opposite sides of said frame, inwardly-  
projecting arms, and stop hooks carried by  
said means, said arms adapted for contact  
by said support during folding operation  
5 and said hooks adapted for receiving said  
support when the device is operatively un-  
folded, and angularly-positioned bars car-  
ried by said means and adapted for engage-

ment by said support during the unfolding  
operation.

In testimony whereof I affix my signature  
in presence of two witnesses.

STEPHEN KRNA.

Witnesses:

S. MACK SMITH,  
JAMES HALZ.

10