

E. C. FLATMAN.
TRUNDLING TOY.
APPLICATION FILED JULY 29, 1919.

1,355,459.

Patented Oct. 12, 1920.
2 SHEETS—SHEET 1.

Fig. 1.

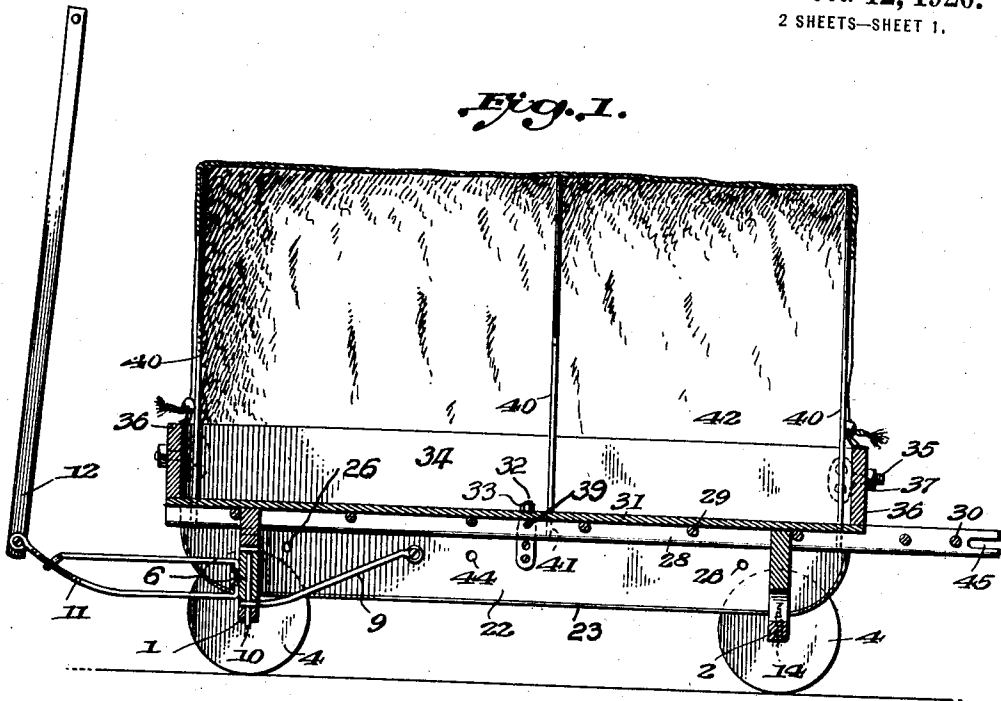


Fig. 2.

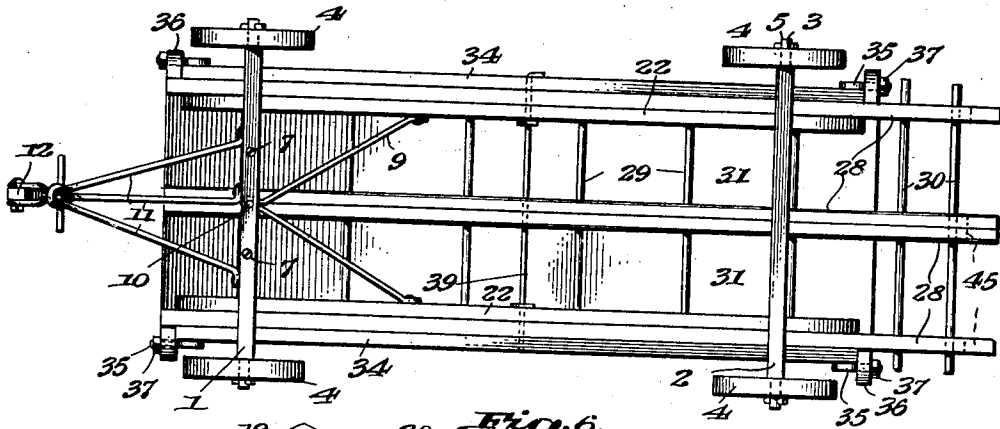
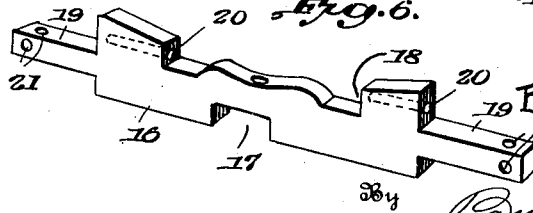


Fig. 6.



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Fig. 3.

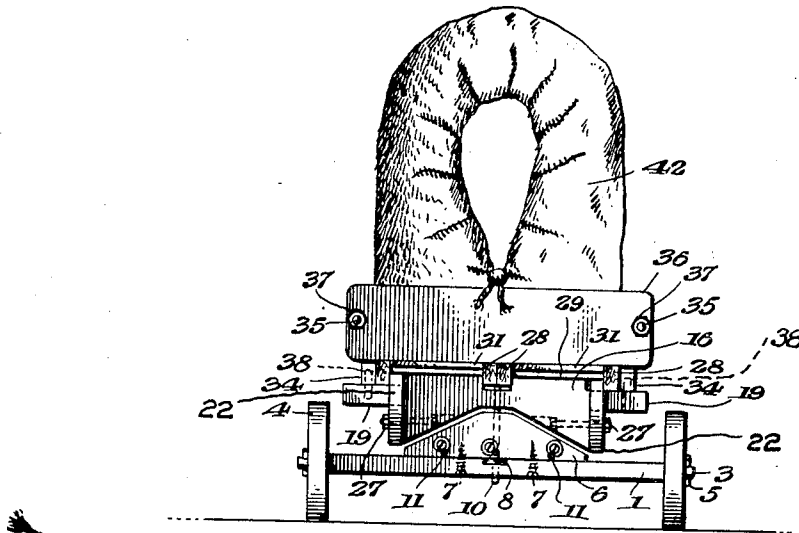


Fig. 4.

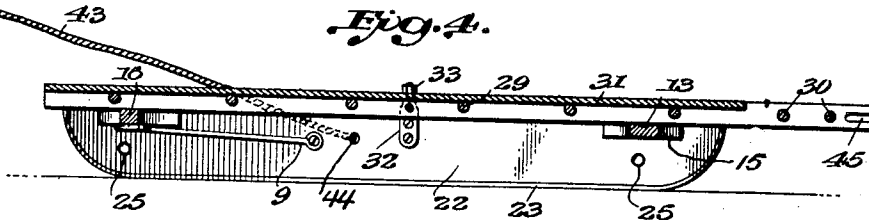
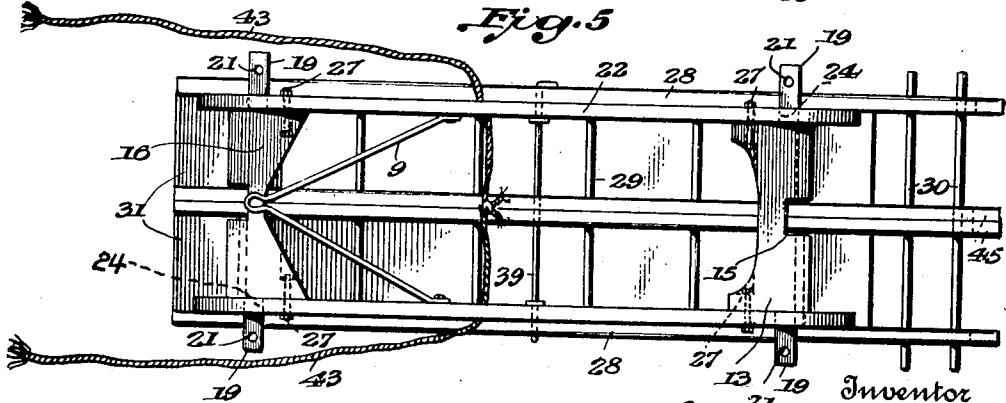


Fig. 5.



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TRUNDLING TOY.

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Specification of Letters Patent.

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To all whom it may concern:

Be it known that I, ERNEST C. FLATMAN, a citizen of the United States of America, residing at Detroit, in the county of Wayne and State of Michigan, have invented certain new and useful Improvements in Trundling Toys, of which the following is a specification, reference being had therein to the accompanying drawings.

10 This invention relates to a trundling toy, and the primary object of my invention is to provide a toy wagon of the take-apart class which will afford considerable amusement to juveniles and at the same time develop the constructive faculty of a child
15 when assembling the parts of the toy.

Another object of this invention is to provide a toy wagon that may be converted into a sled and numerous articles or devices other
20 than a wagon or sled, the wagon being composed of parts which when properly assembled will provide separate durable toys.

A further object of my invention is to accomplish the above results by a toy embodying interchangeable parts, and all of
25 these parts will be hereinafter described and claimed.

Reference will now be had to the drawings, wherein

30 Figure 1 is a longitudinal sectional view of the toy wagon;

Fig. 2 is a bottom plan of the same;

Fig. 3 is a view of the front end of the toy wagon, with the tongue thereof broken
35 away;

Fig. 4 is a longitudinal sectional view of a portion of the toy wagon converted into a sled; and

Fig. 5 is a bottom plan of the same, and

40 Fig. 6 is a perspective view of a detached front bolster.

In the drawings, the reference numerals 1 and 2 denote front and rear axles respectively having the ends thereof reduced as
45 at 3, and provided with detachable wheels 4, said wheels being retained on the reduced ends 3 of the axles 1 and 2 by transverse pins 5. The axles 1 and 2 are rectangular in cross section and said axles, wheels and
50 other parts of the toy wagon to be hereinafter described are preferably made of wood.

6 denotes a front axle bolster that serves as a fifth wheel member, and said bolster
55 is connected to the axle by screws 7 or other

fastening means. The confronting connected faces of the axle 1 and the bolster 6 provide a socket 8 for the front eye end of a radius rod 9, and a king bolt 10 is adapted to extend through the eye end of
60 the radius rod 9 and the axle and its bolster. Connected to the front side of the bolster 6 is a coupling 11 for a pivoted tongue or handle bar 12 by which the toy wagon may be moved over the ground or floor.

13 denotes the rear axle or body bolster detachably connected to the rear axle 2 by screws 14 or other fastening means, and the upper edge of the rear axle bolster has a recess 15, intermediate its ends.
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16 denotes a front body bolster having a recess 17 in its upper edge, and its lower edge cut away and shaped, as at 18 to conform to the upper edge of the front axle bolster 6, the bolster 6 and 16 cooperating
75 in providing a fifth wheel action at the front end of the wagon running gear. The bolsters 6 and 16 having the ends thereof provided with rectangular arms 19 and the ends of the bolster are provided with open-
80 ings 20, while the outer ends of the arms 19 have intersecting openings 21.

22 denotes longitudinal parallel runner members that may have the wear edges thereof bound by metallic straps 23. The
85 upper edges of the runner members, contiguous to the ends thereof, have notches 24 to receive the rectangular arms 19 of the bolsters 13 and 16, and when the parts are assembled to provide a wagon, the bolsters
90 13 and 16 are placed in a vertical position, as shown in Fig. 1, and when the parts are assembled to provide a sled, said bolsters are placed in a horizontal position, as shown in Fig. 4. The runner members 22, adja-
95 cent the notches 24, are provided with openings 25 and 26, the former permitting of screws 27 or other fastening means being used to hold the bolsters in a vertical position and by placing the same screws or
100 fastening means in the openings 26 the bolsters may be maintained in a horizontal position. The radius rod 9 is adapted to have its rear ends connected to the inner walls of the runner members 22, as best
105 shown in Figs. 2 and 4.

28 denotes parallel ladders having fixed short rounds 29 and long detachable rounds 30. With the ladders 28 placed in parallel-
ism and rails thereof contacting, said ladders
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can be placed on the bolsters 13 and 16 with the central contacting rails of the ladders extending into the recesses 15 and 17 of the bolsters 13 and 16 respectively, while the outer rails of the ladders rest on the arms 19 at the outer sides of the runner members 22.

31 denotes planks or bottom boards placed on the rounds 29 of the ladders, between the rails thereof and said bottom planks are provided with openings to receive the upper ends of bolts 32 which have flat heads connected to the inner walls of the runner members 22, as best shown in Figs. 1 and 4. Nuts 33 are adapted to be screwed on the upper ends of the bolts 32 so as to prevent vertical displacement of the ladders 28 and the planks 31.

34 denotes side walls of a wagon body, and the ends of said side walls are provided with fixed bolts 35 extending through end walls 36 and provided with nuts 37. The end walls 36 rest on the ends of the ladders 28 and the planks 31, and the lower edges of the side walls 34 are provided with dowel pins 38 adapted to extend into the openings 21 of the arms 19, said arms having the two sets of openings so that the body walls may be fitted on the arms with the bolsters 13 and 16 either in a vertical or horizontal position thus permitting of the body being mounted on the sled as well as on the wagon, but by reference to Fig. 4, it will be noted that the body side and end walls may be left off of the sled and simply the ladders and planks used to form a body on the runner members 22. To prevent vertical displacement of the body relative to the ladders 28 and the runner members 22, a tie rod 39 is employed, said tie rod extending through openings in the side walls 34, openings in the rails of the ladders 28 and openings in the flat heads of the bolts 32.

40 denotes canopy bows adapted to have the lower ends thereof mounted in sockets 41 provided therefor in the rails of the ladders 28, and said bows are adapted to support a canopy 42 of the gipsy or schooner type. The canopy bows 40 are located at the inner walls of the wagon body and the canopy 42 may be gathered about said bows or carried downwardly over the walls of the wagon body and gathered thereabout.

43 denotes a cord or cable that may be threaded through openings 44 provided therefor in the runner members 22, and this cord or cable may be used for pulling the sled when the parts of the toy are so assembled.

With the king bolt 10 extending downwardly through the body bolster 16, as shown in Fig. 3, the tongue 12 of the wagon may be manipulated to move the wagon in a desired direction and with the ends of the ladders 28 notched, as at 45, the ladders may

be used in conjunction with one of the long rounds 30 to form a stepladder. When the toy is constructed as a sled the radius rod 9, shown in Fig. 6 may be dispensed with, and when the wagon is constructed on a large scale and it is desired to dispense with the tongue 12 and yet steer the wagon, for instance when a child is on the rear end of the same propelling it with the feet, as is a common practice, the front bolster may be reversed, so that the coupling 11 without the tongue 12, will extend rearwardly under the bed of the wagon. Then, the cord or cable 43 may have its ends threaded through the openings 44 and attached to the end of the coupling 11. With the cord or cable extending upwardly at the sides of the wagon bed it is an easy matter to steer or guide the front truck of a wagon.

When referring to screws, bolts, nuts or other fastening means, it is to be understood that tie rods, winged thumb nuts and other pieces of hardware may be used, to facilitate taking apart and putting together of the parts of the toy, it being my aim to cause some labor on the part of the child in assembling the parts of the toy in order to make the same interesting and cause the child to learn to properly assemble the toy for articles desired.

It is understood that the structural elements entering into my invention, are susceptible to such changes as fall within the scope of the appended claims.

What I claim is:—

1. A trundling toy comprising longitudinal parallel runner members, bolsters detachably mounted between said runner members and adapted to occupy horizontal positions when said runners are in use, parallel ladders seated on said bolsters, planks on said ladders, means connecting said planks to said runner members adapted to prevent vertical displacement of said planks and said ladders, and means cooperating with the last mentioned means in preventing lateral displacement of said planks and ladders relative to said bolsters and runner members.

2. A toy as characterized in claim 1, and wherein additional means, including wheels, is associated with said bolsters when in vertical positions to maintain said runner members elevated relative to a surface.

3. A toy comprising axles provided with wheels, bolsters on said axles, runner members abutting the end of said bolsters and adapted for supporting said bolsters in horizontal positions, when devoid of said axles, and a detachable body on said bolsters.

4. A toy wagon comprising a running gear having bolsters which in vertical positions serve for a wagon and in horizontal positions serve for a sled when devoid of the other running gear parts, runner mem-

bers mounted against the ends of said bolsters, and a body on said bolsters.

5 5. A toy as characterized in claim 4, wherein said body includes ladders, planks and walls detachably held relative to said runner members.

10 6. A toy comprising runner members constantly in vertical planes, horizontal bolsters connecting said runner members and constantly associated therewith and adapted to be turned to vertical planes and supported by wheels to maintain the runner members elevated, and planks connected to said runner members.

15 7. A toy as characterized in claim 6, wherein the bolsters are between said runner members and ladders are placed on the

bolsters and support the planks relative thereto.

8. A vehicle comprising a body composed 20 of runner members, front and rear trucks, a coupling carried by the front truck, said front truck being reversible so that the coupling may extend between the runner members of said body, and means adapted 25 to extend through said body runner members and be attached to the coupling of the front truck for guiding said vehicle.

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

ERNEST C. FLATMAN.

Witnesses:

KARL H. BUTLER,
ANNA M. DORR.