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PROVISIONAL SPECIFICATION.

"Improvements in the Method and Means of Connecting Together Toy Animal Teams and other Toys or similar Objects"

I, WILLIAM BRITAIN, Junior, of 28 Lambton Road Hornsey Rise, in the County of Middlesex, Toy Manufacturer, do hereby declare the nature of this invention to be as follows:

This invention relates to an improved method and means for connecting
5 together a series of small objects, for example such as teams of toy animals,
and other toys, the details of which are intended to be spaced at certain in-
tervals apart to form a combined whole; and it more particularly relates to
the harnessing of toy horses or other draught beasts to ammunition wagons,
guns, gun limbers, ambulances, transport wagons, and the like though it is
10 suitable wherever toys or small objects of this nature have to be attached to
one another in files of two or more at distances apart.

In applying the invention to the attachment of toy horses or other animals
(for example two abreast,) it is preferable to cast or mould the animals so
that the one has on one side, for example, near to its front end, a stud, and
15 the other a corresponding socket, to receive the stud and thus space the two
animals apart.

Through said animals, for example near the rear end of such animals, a hole
is made transversely through them so that a wire can be passed through those
that are abreast, the ends of the wire being then turned to project rearward
20 outside the animals. Studs may also be made on the adjacent sides of said
animals near the rear to space them apart. These and the aforesaid studs, or
other studs or eyelets may be so made as to afford a retaining passage for the
longitudinal wire next to be described.

This wire of suitable strength, rigidity and elasticity for example, of steel
25 is formed with a loop or fastener at one end to engage the stud or socket be-
tween the foremost pair of animals, other pairs of animals to the number
desired are then strung upon this wire and the ends of the transverse wire which
connects the animals of each pair are passed into holes made in the next pair
rearward and resiliently engage the same, thus spacing each pair from the one
30 succeeding it. To harness a limber or waggon of any kind to a team of animals
attached as described, the aforesaid longitudinal wire extending rearward be-
yond the last pair has a loop or fastener made at its rear end which may be
locked to said wagon by being placed in suitable recesses in or under it and
held in position by the axle or one of the axles of the wagon or otherwise. The
35 ends of the transverse wire of the rearmost pair of animals engage the wagon.

The method of the engagement of the main longitudinal wire and of the
ends of the transverse wires may be so contrived that the main longitudinal
wire acts either as a strut or as a tie, while conversely the longitudinal parts
of the transverse wires act either as ties or as struts.

40 Either construction connects the details of the whole team with each other
and with the wagon in a strong and comparatively durable manner and holds
each animal in position in a sufficiently elastic and yet steady manner. It is
also simple to construct and to put together in manufacture in different groupings.

[Price 8d.]



Impts. in Means of Connecting Together Toy Animal Teams and other Toys, &c.

It is not essential to the connection and spacing of the files from one another that the longitudinal parts of what have been referred to as "transverse wires" should be connected by such a transverse portion passing through the units of the file, if there is other equivalent means of connection for the said units of each file.

The invention is not confined to the attachment of a team of animals two abreast, but may if desired be used with one or more longitudinal wires to attach files of more than two to each other, whether they represent animals, persons or things

Dated this 5th day of December, 1901

HERBERT HADDAN & Co.

COMPLETE SPECIFICATION.

"Improvements in the Method and Means of Connecting Together Toy Animal Teams and other Toys or similar Objects"

I, WILLIAM BRITAIN, JUNIOR, of 28 Lambton Road, Hornsey Rise, in the County of Middlesex, Toy Manufacturer, do hereby declare the nature of this invention and in what manner the same is to be performed to be particularly described and ascertained in and by the following statement:

This invention relates to an improved method and means for connecting together a series of small objects, for example such as teams of toy animals, and other toys, the details of which are intended to be spaced at certain intervals apart to form a combined whole; and it more particularly relates to the harnessing of toy horses or other draught beasts to ammunition wagons, guns, gun limbers, ambulances, transport wagons, and the like though it is suitable wherever toys or small objects of this nature have to be attached one another in files of two or more at distances apart.

The accompanying drawing shows the invention as applied to the harnessing of a team of horses to a gun limber. Fig. 1 being a longitudinal vertical section and Fig. 2 a horizontal section thereof, partly in elevation.

In applying the invention to the attachment of toy horses or other animals (for example two abreast) it is preferable to cast or mould the animals so that the one has on one side, for example near to its front end, a stud *e* and the other a corresponding socket *e*¹ to receive the stud and thus space the two animals apart.

Through said animals, for example near the rear end of such animals, a hole is made transversely through them so that a wire *d* can be passed through those that are abreast, the ends of the wire being then turned to project rearward outside the animals. Studs *f* may also be made on the adjacent sides of said animals near the rear to space them apart. These and the aforesaid studs *e*¹ or other studs *g* or eyelets may be so made as to afford a retaining passage for the longitudinal wire *e* next to be described.

This wire of suitable strength, rigidity and elasticity for example, of steel is formed with a loop or fastener *e*¹ at one end to engage the stud *e* or socket *e*¹ between the foremost pair of animals *a*, other pairs of animals to the number desired are then strung upon this wire and the ends of the transverse wire *d* which connects the animals of each pair are passed into holes made, in the next pair rearward and resiliently engage the same as at *d*¹, thus spacing each pair from the one succeeding it. To harness a limber *b* or wagon of any kind

Impts. in Means of Connecting Together Toy Animal Teams and other Toys, &c.

to a team of animals attached as described, the aforesaid longitudinal wire *c* extending rearward beyond the last pair has a loop or fastener *c*² made at its rear end which may be locked to said wagon by being placed in suitable recesses in or under it and held in position by the axle *b*¹ or one of the axles of the wagon or otherwise. The ends of the transverse wire *d* of the rearmost pair of animals engage the wagon as as *d*².

The method of the engagement of the main longitudinal wire and of the ends of the transverse wires may be so contrived that the main longitudinal wire acts either as a strut or as a tie, while conversely the longitudinal parts of the transverse wires act either as ties or struts

Either construction connects the details of the whole team with each other and with the wagon in a strong and comparatively durable manner and holds each animal in position in a sufficiently elastic and yet steady manner. It is also simple to construct and to put together in manufacture in different groupings.

It is not essential to the connection and spacing of the files from one another that the longitudinal parts of what have been referred to as "transverse wires" *d* should be connected by such a transverse portion passing through the units of the file, if there is other equivalent means of connection for the said units of each file

The invention is not confined to the attachment of a team of animals two abreast, but may if desired be used with one or more longitudinal wires to attach files of more than two to each other, whether they represent animals, persons or things.

Having now particularly described and ascertained the nature of my said invention and in what manner the same is to be performed I declare that what I claim is:

1. A method of connecting together toy animal teams, and other toys or similar objects consisting in spacing apart the units of the team abreast by means of studs and sockets or the like, connecting said units abreast by means of a transverse wire, connecting each unit or group of units longitudinally by means of one or more wires extending the whole length of the team and attached to the end units and spacing said groups of units longitudinally from each other by means of a wire or wires outside said units substantially as described.

2. In means for carrying out the method described in Claim 1, the arrangement for connecting units or groups of units of the team longitudinally together consisting of a wire or wires extending for the whole length of the team and attached to the end unit or group, the intermediate units or groups being retained on said wire by means of suitable studs, eyelets or the like thereon substantially as described.

3. In means for carrying out the method described in Claim 1 the arrangement for spacing the units of the team abreast consisting of a stud at one side near the front of one unit adapted to enter a corresponding socket on the other with or without other studs near the rear substantially as described.

4. In means for carrying out the method described in Claim 1, the arrangement for connecting the units of the team abreast consisting of a transverse wire passing through each unit at or near the rear thereof substantially as described.

5. In means for carrying out the method described in Claim 1, the arrangement for spacing the units or groups of units apart longitudinally consisting of a wire connected to or passing through each unit and bent rearward outside to resiliently or otherwise engage the next unit or group, substantially as described.

Dated this 4th day of September, 1902.

HERBERT HADDAN & Co.
Agents to Applicant, 18 Buckingham Street, Strand W.C.

Fig. 1

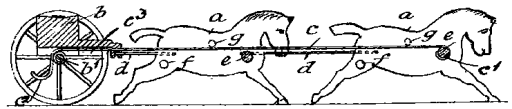
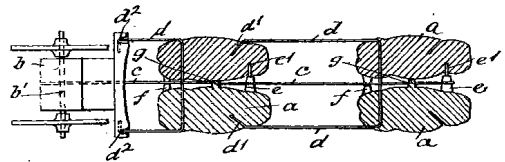


Fig. 2



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Fig. 1

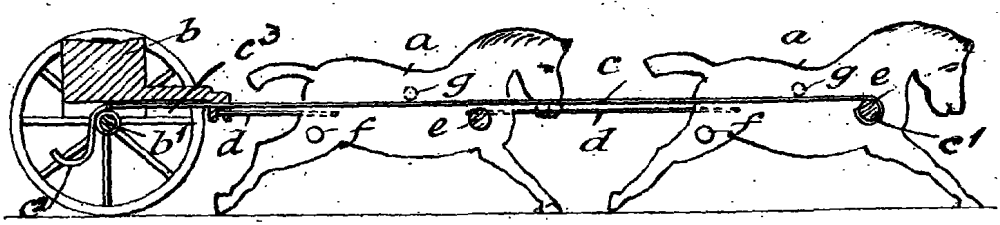
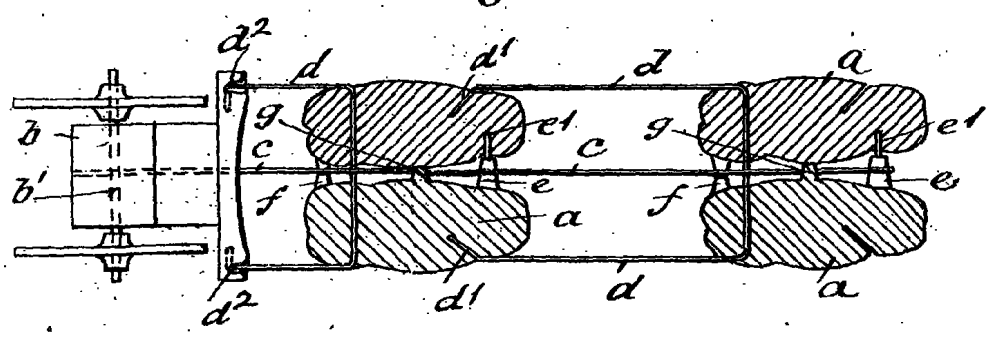


Fig. 2



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