

RESERVE COPY.
PATENT SPECIFICATION

DRAWINGS ATTACHED

Inventor: ANDRE ALBERT GILLERON

991,823



991,823

Date of filing Complete Specification Dec. 4, 1963.

Application Date Jan. 25, 1963.

No. 3189/63.

Complete Specification Published May 12, 1965.

© Crown Copyright 1965.

Index at acceptance: —A6 S(19A1A, 19D4)

Int. Cl.: —B 63 h 33/60

COMPLETE SPECIFICATION

Improvements in or relating to Toy Motor Vehicles

ERRATA

SPECIFICATION No. 991,823

Amendment No. 1

Page 1, Heading, Date of filing, for "196-"
read "1963"

Page 1, line 68, for "rearwindows" read "rear
windows"

THE PATENT OFFICE
24th November 1966

15 spring is suitably mounted on an integral
projection of a base plate of the toy vehicle,
which spring presses against a generally
arcuate extension or hinge of the lid, in
order to secure the lid in an open position.
20 This method however is rather cumbersome
and costly to produce.

An object of the present invention is to
overcome the above-mentioned disadvantages
and to provide a toy motor vehicle having
a simple, openable bonnet and/or boot lid
25 without detracting from the realistic appear-
ance of the toy vehicle.

According to one aspect of the present
invention a toy motor vehicle comprises at
least one openable lid hingeably mounted
30 on to a body member of a toy motor vehicle
by means of at least one generally arcuate
extension projecting from the lid, the lid
projection being held hingeably in position
between a correspondingly shaped arcuate
35 extension of a window portion and an arcuate
portion of the body member.

According to another aspect of the present
invention, a toy motor vehicle comprises at
least one aperture normally closed by an
40 openable member having an arcuate extension
positioned between two arcuate portions of
two initially separate sections of the vehicle
connected together after assembly of the

to a rivet. The windows are preferably of
injection moulded transparent plastics
material or they may be of any suitably
shaped and formed transparent material. The
body member may likewise be of injection
60 moulded plastics material, pressure die-
cast metal, pressed metal or any other suit-
ably shaped and formed material.

Preferably, the or each integrally formed
arcuate extension of the window moulding
65 projects longitudinally from the front and/
or rearwindows and encircles the arcuate
extension of the bonnet and/or boot lid from
below. The arcuate extension of the bonnet
70 and/or boot lid encircles the arcuate portions
of the body member from below and there-
fore the lids are hingeable between the body
member and the window moulding; the clear-
75 ance between the respective surfaces of the
arcuate portions should be such that the
lid can be retained in any described position
by the friction existing between the sur-
faces.

A further refinement of the invention is a
80 stop device to limit the opening position of
each lid and to prevent the lid from be-
coming disembodied from the toy vehicle.

The invention will be described further,
85 by way of example, with reference to the

[Price

PATENT SPECIFICATION

DRAWINGS ATTACHED

Inventor: ANDRE ALBERT GILLERON

991823



991823

Date of filing Complete Specification Dec. 4, 1962.

Application Date Jan. 25, 1963.

No. 3189/63.

Complete Specification Published May 12, 1965.

© Crown Copyright 1965.

Index at acceptance: —A6 S(19A1A, 19D4)

Int. Cl.: —B 63 h 33/60

COMPLETE SPECIFICATION

Improvements in or relating to Toy Motor Vehicles

We MECCANO LIMITED of 236 Binns Road, Liverpool, 13, a British Company, do hereby declare the invention, for which we pray that a patent may be granted to us, and the method by which it is to be performed, to be particularly described in and by the following statement:—

5 The present invention concerns toy motor vehicles, more particularly a method of hinging doors, openable bonnet and/or boot lids.

10 In known methods of hinging bonnet and/or boot lids in toy motor vehicles, a flat spring is suitably mounted on an integral projection of a base plate of the toy vehicle, which spring presses against a generally arcuate extension or hinge of the lid, in order to secure the lid in an open position. This method however is rather cumbersome and costly to produce.

20 An object of the present invention is to overcome the above-mentioned disadvantages and to provide a toy motor vehicle having a simple, openable bonnet and/or boot lid without detracting from the realistic appearance of the toy vehicle.

30 According to one aspect of the present invention a toy motor vehicle comprises at least one openable lid hingeably mounted on to a body member of a toy motor vehicle by means of at least one generally arcuate extension projecting from the lid, the lid projection being held hingeably in position between a correspondingly shaped arcuate extension of a window portion and an arcuate portion of the body member.

40 According to another aspect of the present invention, a toy motor vehicle comprises at least one aperture normally closed by an openable member having an arcuate extension positioned between two arcuate portions of two initially separate sections of the vehicle connected together after assembly of the

arcuate extension between the arcuate portions.

45

In one embodiment of the invention, a window moulding is shaped to fit inside the upper half of the body member and forms all the side, front and rear windows of the toy vehicle. The window moulding is secured to the body member by means of a small inwardly projecting stud formed integrally with the roof of the body member, which stud passes through a locating hole in the window moulding and its end is then flattened to form a head in a similar manner to a rivet. The windows are preferably of injection moulded transparent plastics material or they may be of any suitably shaped and formed transparent material. The body member may likewise be of injection moulded plastics material, pressure die-cast metal, pressed metal or any other suitably shaped and formed material.

50

55

60

65 Preferably, the or each integrally formed arcuate extension of the window moulding projects longitudinally from the front and/or rear windows and encircles the arcuate extension of the bonnet and/or boot lid from below. The arcuate extension of the bonnet and/or boot lid encircles the arcuate portions of the body member from below and therefore the lids are hingeable between the body member and the window moulding; the clearance between the respective surfaces of the arcuate portions should be such that the lid can be retained in any described position by the friction existing between the surfaces.

70

75

80

A further refinement of the invention is a stop device to limit the opening position of each lid and to prevent the lid from becoming disembodied from the toy vehicle.

The invention will be described further, by way of example, with reference to the

85

85

[Price]

drawings accompanying the provisional specification, of which:

Fig. 1 is a side elevation, partly in section, of a toy vehicle constructed in accordance with the invention; and

Fig. 2 is an exploded perspective view from below of the hinge.

The vehicle as shown in Fig. 1 comprises a body casting 11 and a window moulding 12 which is held in position by means of a stud 13 formed integrally with the body casting 11. A bonnet lid 14 and boot lid 15 (shown in the open position by chain-dotted lines in Fig. 1) have generally arcuate extensions 14a and 15a respectively which encircle corresponding arcuate portions 11a and 11b of the body casting 11 and the window moulding 12 has generally arcuate extensions 12a and 12b which encircle the arcuate extensions 14a and 15a respectively.

A stop device (Fig. 2) consists of a downwardly depending lip 16 arranged at the centre of the arcuate portion of the body casting 11, which engages in a slot 18 arranged between two arms of the arcuate extension 14a of the bonnet 14; the hinge for the boot lid 15 is provided with a similar stop and operates in the same manner. When the lid 14 or 15 is opened to its maximum an inner edge 17 of the slot 18 strikes the lip 16 which prevents the lid parting from the toy vehicle.

WHAT WE CLAIM IS:—

1. A toy motor vehicle comprising at least one openable lid hingeably mounted on to a body member of the toy motor vehicle by means of at least one generally arcuate extension projecting from the lid, the lid projection being held hingeably in position between a correspondingly shaped arcuate extension of a window portion and an arcuate portion of the body member.

2. A toy motor vehicle comprising at least one aperture normally closed by an openable member having an arcuate extension positioned between two arcuate portions of two initially separate sections of the vehicle

connected together after assembly of the arcuate extension between the arcuate portions.

3. A toy motor vehicle as claimed in claim 2, in which the openable member is a bonnet or boot lid and the separate sections comprise a window portion and a body member of the vehicle.

4. A toy motor vehicle as claimed in claim 1 or 3, in which the window portion is shaped to fit inside the upper half of the body member and forms all the side, front and rear windows of the toy vehicle.

5. A toy motor vehicle as claimed in claim 1, 3 or 4, in which the window portion is of moulded transparent plastics material and is secured to the body member by means of a small, inwardly projecting stud formed integrally with a roof portion of the body member, the stud passing through a locating hole in the window moulding.

6. A toy motor vehicle as claimed in claim 1, 3, 4 or 5, in which each integrally formed arcuate extension of the window portion projects longitudinally from the front and/or rear windows and encircles the arcuate extension of the bonnet and/or boot-lid from below.

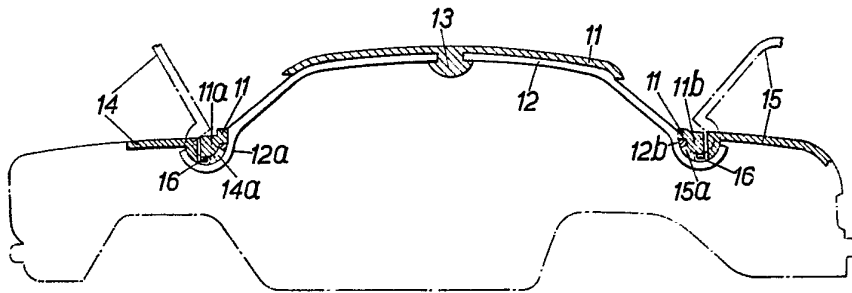
7. A toy motor vehicle as claimed in any preceding claim, in which the clearance between the respective arcuate surfaces is such that the openable member can be held in any desired position by the friction existing between the surfaces.

8. A toy motor vehicle as claimed in any preceding claim, in which a stop device is provided to limit the opening position of each openable member.

9. A toy motor vehicle constructed and arranged substantially as herein described with reference to and as illustrated in the drawings accompanying the provisional specification.

POLLAK, MERCER & TENCH,
Chartered Patent Agents,
5 Castle Street, Liverpool 2,
Agents for the Applicants.

-FIG.1-



-FIG.2-

