CLAIMS

[Claim 1]

A bolster structure of a railroad vehicle that is provided on an underframe constituting a floor of a structure body of the railroad vehicle, wherein

the bolster structure is formed by joining a plurality of shaped members having a multi-layer structure with an extrusion direction configured to be in a width direction of the structure body of the railroad vehicle,

the plurality of shaped members include:

a shaped member wherein a region having a part of the multi-layer structure notched is configured to be at a center of the structure body of the railroad vehicle in the width direction; and

a shaped member wherein a fastening portion formed by notching a part of the multi-layer structure, is configured to be at both ends of the structure body of the railroad vehicle in the width direction, and

the fastening portion is configured to fix a side beam of the underframe.

[Claim 2]

The bolster structure of a railroad vehicle according to claim 1, wherein

as the plurality of shaped members, those obtained by machining shaped members having the same cross-sectional shape are used.

[Claim 3]

The bolster structure of a railroad vehicle according to claim 2, wherein

the plurality of shaped members are configured to be joined side by side in a longitudinal direction of the structure body of the railroad vehicle.

[Claim 4]

The bolster structure of a railroad vehicle according to claim 3, wherein

among the plurality of shaped members, the shaped member configured to be on an inner side of the structure body of the railroad vehicle in the longitudinal direction includes a portion protruding upward from a joint portion, and the shaped member configured to be on an outer side of the structure body of the railroad vehicle in the longitudinal direction has a portion protruding downward from a joint portion.

[Claim 5]

The bolster structure of a railroad vehicle according

to claim 1, wherein

a reinforcing member is provided on an upper surface of the shaped member.

[Claim 6]

The bolster structure of a railroad vehicle according to claim 1, wherein

a shape of a cross section of the shaped member perpendicular to the longitudinal direction includes a substantially trapezoidal portion.

[Claim 7]

The bolster structure of a railroad vehicle according to claim 1, wherein

the shaped member has the same cross-sectional shape as a shaped member configured to be used in the structure body of the railroad vehicle other than the bolster structure.

[Claim 8]

A railroad vehicle including the bolster structure according to claim 1.