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(54) **REAR CARGO BARRIER SYSTEM**

(73) Assignee: **DaimlerChrysler Corporation**

(75) Inventors: **Jerome R. Pfeifer**, Livonia, MI (US);  
**Umrhan H. Ashrat**, Troy, MI (US); **Jeff L. Glaub**, Sterling Heights, MI (US);  
**Larry M. Storinsky**, Rochester Hills, MI (US); **Steven C. Strable**, Rochester, MI (US);  
**Martin S. Potok**, Milford, MI (US); **James A. Seidel**, Metamora, MI (US);  
**John M. Bederka**, Sterling Heights, MI (US); **Venkat S. Yanumula**, Clarkston, MI (US)

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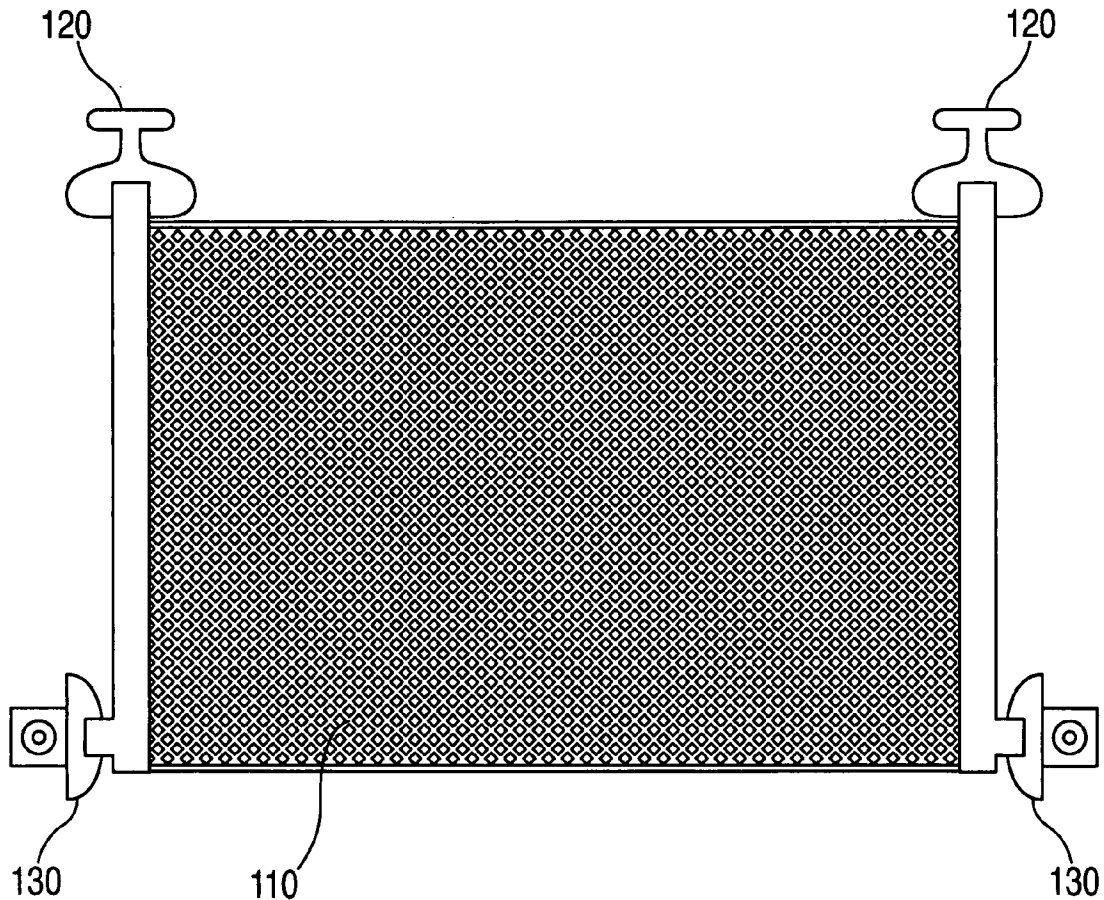
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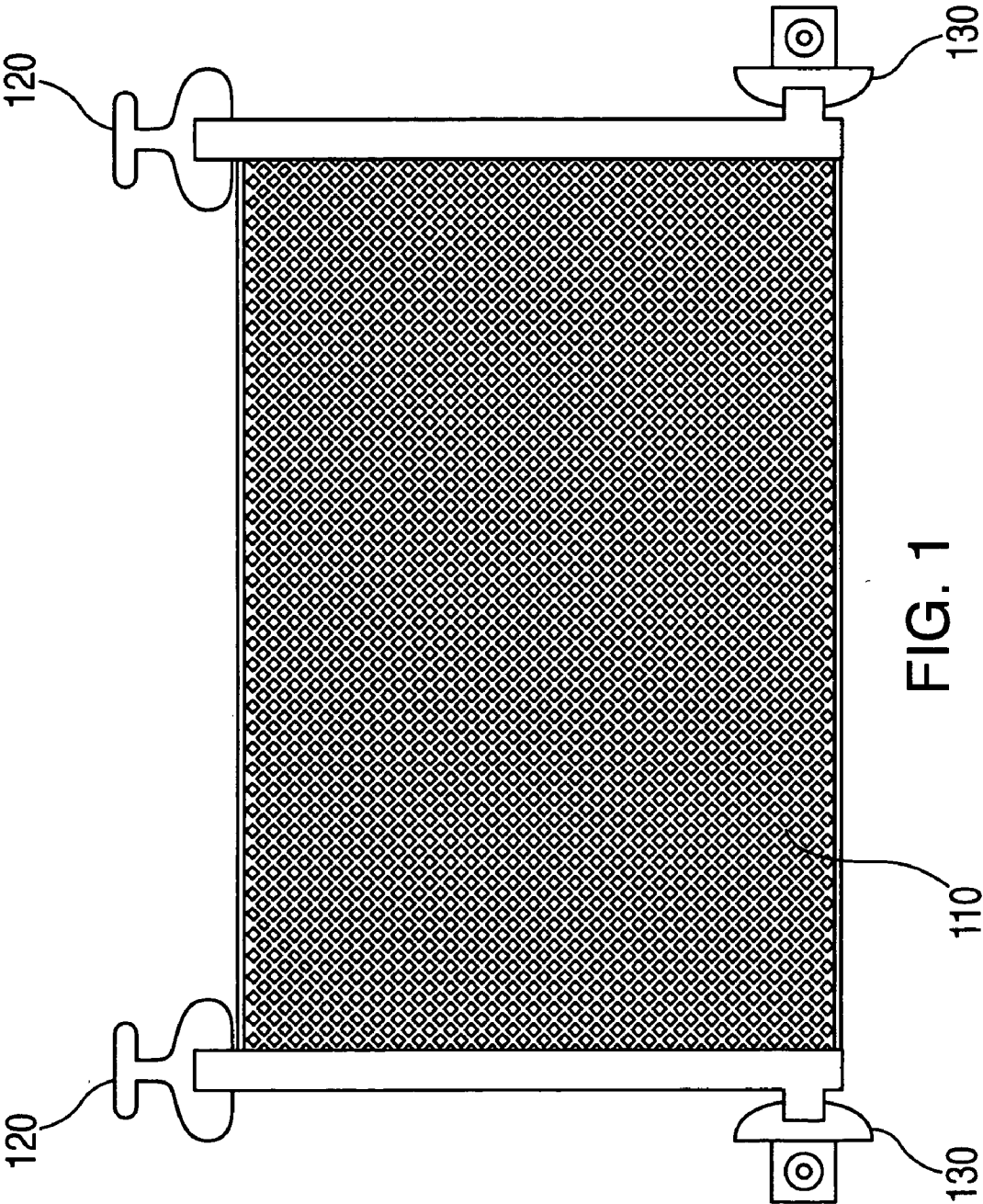
(57) **ABSTRACT**

A barrier system provides protection against rear cargo load intrusion into a passenger compartment of a vehicle. The barrier system is located in the rear cargo compartment of the vehicle. The barrier system includes a load bearing barrier net, a first set of attachments that connect the load bearing barrier net to a shelf panel in the rear cargo compartment and a second set of attachments that connect the load bearing barrier net to a wheel house in the rear cargo compartment. The first set of attachments is removable and the second set of attachments is not removable.

Correspondence Address:

**Ralph E. Smith**  
**DaimlerChrysler Intellectual Capital Corporation**  
**CIMS 483-02-19**  
**800 Chrysler Drive**  
**Auburn Hills, MI 48326-2757 (US)**





## REAR CARGO BARRIER SYSTEM

### FIELD OF THE INVENTION

[0001] The present invention relates to a barrier system that distributes intrusion loads.

### BACKGROUND INFORMATION

[0002] Various safety systems may be found in vehicles to provide protection to the passengers of the vehicle. Such systems include air bags and seat belts. Other systems have yet to address protection against rear cargo load intrusion into the passenger compartment of the vehicle, which could jeopardize the safety of passengers in the vehicle.

### SUMMARY OF THE INVENTION

[0003] The barrier system according to the present invention provides protection against rear cargo load intrusion into a passenger compartment of a vehicle. The barrier system is located in the rear cargo compartment of the vehicle. The barrier system includes a load bearing barrier net, a first set of attachments that connect the load bearing barrier net to a shelf panel in the rear cargo compartment and a second set of attachments that connect the load bearing barrier net to a wheel house in the rear cargo compartment. The first set of attachments may be removable and the second set of attachments may not be removable. The first set of attachments is connected to the shelf panel via a first set of brackets and the second set of attachments is connected to the wheel house via a second set of brackets.

### BRIEF DESCRIPTION OF THE DRAWING

[0004] **FIG. 1** shows an exemplary embodiment of the barrier system according to the present invention.

### DETAILED DESCRIPTION

[0005] An exemplary embodiment of the barrier system according to the present invention is shown in **FIG. 1**. The barrier system provides protection against rear cargo load intrusion into a passenger compartment of a vehicle. The barrier system is located in the rear cargo compartment (not shown) of the vehicle, separating rear cargo from the passenger compartment of the vehicle. The barrier system includes a load bearing barrier net **110**. A first set of attachments **120** is used to connect the load bearing barrier net **110** to a shelf panel (not shown) in the rear cargo compartment. The load bearing barrier net **110** is connected to the first set of attachments **120** at at least two upper regions of the load bearing barrier net. A second set of attachments **130** is used to connect the load bearing barrier net **110** to a wheel house (not shown) in the rear cargo compartment. The load bearing barrier net **110** is connected to the second set of attachments **130** at at least two lower regions of the load bearing barrier net **110**.

[0006] In the exemplary embodiment, the first set of attachments **120** is removable and the second set of attachments **130** is not removable. Additionally, the load bearing barrier net **110** may be formed from a webbing material that is similar to the material used to form vehicle seat belts.

[0007] The first set of attachments **120** is removable and hence provide passenger access to the rear cargo in the rear cargo compartment from the passenger compartment. The first set of attachments **120** may include a clip that is attachable via a clamp and swivel. A threaded insert cavity may be used to connect the clamp and the swivel.

[0008] In the exemplary embodiment, the first set of attachments **120** is connected to the shelf panel via a first set of brackets (not shown) and the second set of attachments **130** is bolted to the wheel house via a second set of brackets (not shown).

What is claimed is:

1. A barrier system for a rear cargo compartment of a vehicle, comprising:

a load bearing barrier net;

a first set of attachments connected to at least two upper regions of the load bearing barrier net and configured to be connected to a shelf panel in the rear cargo compartment; and

a second set of attachments connected to at least two lower regions of the load bearing barrier net and configured to be connected to a wheel house in the rear cargo compartment;

wherein the load bearing barrier net provides protection against rear cargo load intrusion into a passenger compartment of the vehicle.

2. The barrier system of claim 1, wherein the first set of attachments are removable and the second set of attachments are not removable.

3. The barrier system of claim 1, wherein the load bearing barrier net is composed of a webbing material.

4. The barrier system of claim 2, wherein the first set of attachments is removable in order to provide access to a fold down seat back.

5. The barrier system of claim 2, wherein the first set of attachments includes a clip that is attachable via a clamp and a swivel that are connect by manner of a threaded insert cavity.

6. The barrier system of claim 1, wherein the first set of attachments is connected to the shelf panel via a first set of brackets and the second set of attachments is connected to the wheel house via a second set of brackets.

7. The barrier system of claim 1, wherein the second set of attachments is bolted onto the wheel house.

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