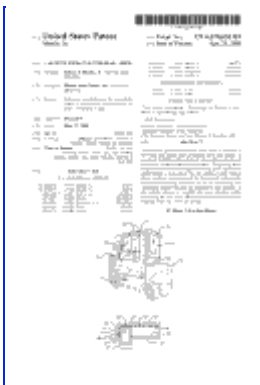


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# Cab with improved overhead vision

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## Abstract

An overhead guard for a vehicle, in the form of a cab for a lift truck, that affords both protection and a high degree of overhead visibility with a relatively open grille work of steel bar and an impact-resistant glazing sheet. The glazing sheet is sandwiched between a rigid framework and a sheet metal panel having a large cutout for the overhead view. Gusset plates reinforce the corners of the framework and provide convenient mounting locations for an air circulating fan.

Threshold adaptor brackets are mounted in step pockets of the vehicle chassis to simplify the door structure while permitting the cab to be effectively sealed from the environment when the doors are closed.

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## U.S. Classification

[296/215](#); [296/19003](#);  
[296/190.1](#); [296/218](#); [49501](#);  
[522/046.2](#); [528/011](#)

**International Classification**  
 B60J 711

## Claims

What is claimed is:

1. An overhead guard for a wheeled vehicle comprising a set of generally upright corner members having lower ends arranged to be mounted on the chassis of the vehicle and upper ends remote from the lower ends, a set of generally horizontal members arranged in the general form of a rectangle in a generally horizontal plane and connected between pairs of the upper ends of the corner members, a sheet of transparent material overlying the horizontal members, a steel roof panel overlying the transparent material and having a large opening to afford overhead vision for the operator of the vehicle, and a limited number of protective rigid bars suspended generally in a horizontal plane across the area of the opening in the roof panel.
2. An overhead guard as set forth in claim 1, wherein said bars are beneath the transparent material.
3. An overhead guard as set forth in claim 1, wherein a pair of corners represent the front of the guard and a pair of corners represent the rear of the guard, said bars being aligned to run parallel to the front to rear direction.
4. An overhead guard as set forth in claim 1, wherein said bars are of rectangular cross-section.
5. An overhead guard as set forth in claim 4, wherein the long dimension of the cross-section of the bars is vertical.
6. An overhead guard as set forth in claim 5, wherein said bars are solid steel members.
7. An overhead guard as set forth in claim 1, including reinforcing gussets at the upper corners of the guard in a generally horizontal orientation, the gussets having holes for provisionally mounting an air circulating fan.
8. An overhead guard for a wheeled vehicle comprising a set of four generally vertical corner posts and a set of four frame elements lying in a generally horizontal plane, the frame elements forming a polygon in plan view and interconnecting said corner posts, and reinforcing gusset plates at a plurality of the corners of the polygon formed by the frame elements, the gusset plates being fixed to adjacent ends of pairs of said frame elements, said gusset plates having holes for optionally receiving screws used to mount an air circulating fan within the guard.

## Search within this patent

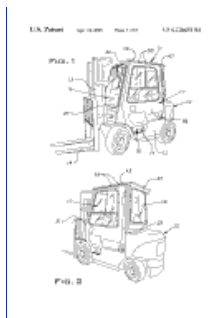
 

## Drawings

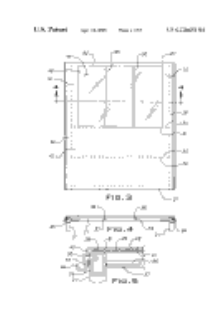
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**CITATIONS**

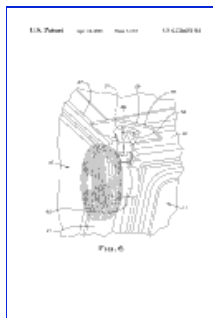
Patent Number	Title	Issue date
<a href="#">3954150</a>	Vehicle roll protective structure	May 4, 1976
<a href="#">4079985</a>	Cab for industrial truck	Mar 21, 1978
<a href="#">4095839</a>	Falling object protective structure	Jun 20, 1978
<a href="#">D249254</a>	Lift truck cab	Sep 5, 1978
<a href="#">4119340</a>	Roof window for crane operator's cab	Oct 10, 1978
<a href="#">4205874</a>	High-low profile guard	Jun 3, 1980
<a href="#">4392669</a>	Cab for lift truck with swing out windshield	Jul 12, 1983
<a href="#">D274276</a>	Lift truck cab	Jun 12, 1984
<a href="#">4702516</a>	Cab construction	Oct 27, 1987
<a href="#">4940280</a>	Protection structure for heavy equipment	Jul 10, 1990
<a href="#">5286081</a>	Panel cab	Feb 15, 1994



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**Referenced by**

Patent Number	Title	Issue date
<a href="#">6682132</a>	Roof module for a vehicle	Jan 27, 2004
<a href="#">7219949</a>	Motor vehicle door having a closure extending from a bottom thereof	May 22, 2007
<a href="#">D544889</a>	High visibility roof for tractor cab	Jun 19, 2007
<a href="#">7278678</a>	Rear door cab for lift truck	Oct 9, 2007
<a href="#">7306280</a>	Overhead guard for materials handling vehicle	Dec 11, 2007