

## Abstract

### Collision detection in a vehicle

The invention relates to a detection device (1) for detecting a collision of a vehicle, in particular a railway vehicle, with a collision partner, comprising a mount (2) for connecting  
5 the detection device (1) to the vehicle, at least one collision unit (4, 5) and at least one sensor device (6). The collision unit (4, 5) comprises at least one collision element (4) for making contact with the collision partner and is mechanically connected to the mount (2). The at least one sensor (6) is designed to generate a collision signal in response to a  
10 relative movement between the collision unit (4, 5) and the mount (2). The collision unit (4, 5) is connected to the mount (2) by means of a guide device (7). Furthermore, the collision unit (4, 5), by at least one fixing means (8), is secured in an initial position relative to the mount (2). The fixing means (8) is designed in such a way to release, in the event of a  
15 collision in which a predetermined collision force on the collision element (4) is exceeded, the collision unit (4, 5) in such a manner that the collision unit (4, 5) guided by the guide device (7) can deflect from the initial position.

Figure 1a)

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