PATENT CLAIMS

1. A mineproof seat device (10), having a seat supporting frame (2) for receiving a seat (11), which seat supporting frame (2) can be fastened to a vehicle roof (4), characterized by at least one guide tube (1), in which the seat supporting frame (2) is mounted axially displaceably and is connected via them to a vehicle roof (4), and at least one holding belt (3) with at least one tear-open seam (6) which tears open in the case of an explosion when a defined loading is reached.

2. The mineproof seat device as claimed in claim 1, characterized in that the tear-open seam (6) is adhesively bonded, welded and/or sewn.

3. The mineproof seat device as claimed in claim 1 or 2, characterized in that the tear-open force can be set by the number of seams (6), the seam geometry and/or the material of the seam (6).

4. The mineproof seat device as claimed in claim 3, characterized in that the belt material is a material which is tear-resistant per se, and in that it can be of textile origin, but also leather, nylon/leather and the like.

5. The mineproof seat device as claimed in one of claims 1 to 4, characterized in that the holding belt or belts (3) is/are fastened to the vehicle roof (4) via a loop (5).

6. The mineproof seat device as claimed in one of claims 1 to 4, characterized in that the seat supporting frame (2) is constructed from GRP and/or CRP or the structure is wrapped with them.

7. The mineproof seat device as claimed in one of claims 1 to 6, characterized in that a plurality of holding belts are connected to the supporting frame.

8. The mineproof seat device as claimed in one of claims 1 to 4 and 6 characterized in that instead of a loop the belt can also consist of a plurality of belts of different lengths in which the shortest belt with a tear-open seam would tear in the case of mine explosions, whereas the longer belt catch the seat and occupants after a defined travel.

CLAIMS

1. A mineproof seat (10) for use in a vehicle wherein the mineproof seat includes:

at least one downwardly depending guide tube (1), adapted to be fitted to the vehicle ceiling (4);

a seat supporting frame (2) for receiving a seat (11); connected to at least one guide tube such that it is axially displaceable relative thereto and

at least one holding belt (3) functionably connectable to the vehicle ceiling and the seat supporting frame, to suspend the seat supporting frame relative to at least one downwardly depending guide to prevent axial movement of the seat supporting frame in a downward direction when the mineproof seat is normally being used, the or each holding belt being provided with at least one tear-open seam (6) which tears open in the case of an explosion when a defined loading is reached to cause movement of the seat supporting relative to at least one guide tube for a defined travel.

2. The mineproof seat as claimed in claim 1, wherein the or each tear-open seam of the or each holding belt connects together a portion of the respective holding belt folded back on itself and the defined travel is dictated by the length of the folded portion.

3. The mineproof seat as claimed in claim 1 or claim 2, wherein the tear-open seam is adhesively bonded, welded and/or sewn.

4. The mineproof seat as claimed in any one of the preceding claims, wherein the tear-open force can be set by the number of seams, the seam geometry and/or the material of the seam.

5. The mineproof seat as claimed in claim 4, wherein the belt material is a material which is tear-resistant per se, and in that it can be of textile origin, but also leather, nylon/leather and the like.

6. The mineproof seat as claimed in any one of the preceding claims, wherein the or each holding belt is/are fastened to the vehicle roof via a loop (5).

7. The mineproof seat as claimed in any one of claims 1 to 5, wherein the seat supporting frame is constructed from GRP and/or CRP or the structure is wrapped with them.

8. The mineproof seat as claimed in any one of the preceding claims, wherein a plurality of holding belts are connected to the supporting frame.

9. The mineproof seat as claimed in any one of claims 2 to 8, wherein instead of a folded portion, each holding belt is of a different lengths in which only the shortest belt contains a tear-open seam adapted to tear in the case of a mine explosion, whereas the longer belt would remain unaffected and catch the seat occupant after a defined travel dictated by the length of the longer belt.

10. The mineproof seat as claimed in any one of the preceding claims, wherein the mineproof seat incorporates a pair of downwardly depending guide tubes.

11. The mineproof seat as claimed in any one of the preceding claims, wherein the mineproof seat incorporates a seat.

12. A vehicle incorporating a mineproof seat as claimed in any one of the preceding claims.

13. An armoured road going vehicle incorporating a mineproof seat as claimed in any one of claims 1 to 11.