PATENT CLAIMS

1. An energy absorption device for protecting a vehicle element against a detonation effect, comprising
a first fastening element which is connectable to a vehicle chassis and/or a vehicle hull, and
a second fastening element which is connectable to the vehicle element which is to be protected,
at least two webs being arranged between the first and the second fastening element,
wherein
the at least two webs are arranged in such a way that they lie above one another in a common plane,
wherein
flexurally reinforced transition zones are configured between the fastening elements and the respective adjoining at least two webs,
internal radii are configured between the at least two webs in a flexurally reinforced corner, and/or internal radii are configured in the flexurally reinforced transition zones,
flexurally reinforced corners are configured in each case between the at least two webs, and
the internal radii between the at least two webs in the flexurally reinforced corners and/or internal radii in the flexurally reinforced transition zones become greater from the second fastening element toward the first fastening element.

2. The energy absorption device as claimed in claim 1, wherein the at least two webs have at least one deformation zone.

3. The energy absorption device as claimed in claim 2, wherein the first fastening element, the second fastening element, the at least two webs and the at least one deformation zone are arranged in such a way that they lie above one another in the common plane which lies perpendicularly with respect to the first and the second fastening element.

4. The energy absorption device as claimed in any one of the preceding claims, wherein the at least two webs are of resiliently flexible configuration.

5. The energy absorption device as claimed in any one of claims 1 to 4, wherein at least one deformation zone is configured so to adjoin the flexurally reinforced transition zone to at least one web.

6. The energy absorption device as claimed in claim 2 or any one of claims 3 to 5 when directly or indirectly dependent on claim 2, wherein the at least one deformation zone is configured so as to adjoin the flexurally reinforced corners.

7. The energy absorption device as claimed in claim 2 or any one of claims 3 to 6 when directly or indirectly dependent on claim 2, wherein, from the second fastening element toward the first fastening element, the at least one deformation zone is configured such that it is at least partially deformable with greater difficulty than the preceding at least one deformation zone, with the result that the energy absorption device has a progressive deformation characteristic curve.

8. The energy absorption device as claimed in any one of the preceding claims, wherein a thickness of the at least two webs becomes greater from the second fastening element toward the first fastening element, with the result that the energy absorption device has a progressive spring characteristic curve.

9. The energy absorption device as claimed in any one of the preceding claims, wherein the at least two webs are arranged in a sawtooth-like manner in alternating directions.

10. The energy absorption device as claimed in any one of claims 1 to 9, wherein the vehicle element is of a military vehicle.

11. A vehicle comprising an energy absorption device as claimed in any one of claims 1 to 10 and a vehicle element, the vehicle element being connected via the energy absorption device to the vehicle.

12. The vehicle as claimed in claim 11, the vehicle element being a cab, a floor, an intermediate floor, a vehicle body, a foot plate, a seat means, a weapons system, a device mount or a shelf.

13. The vehicle as claimed in claim 12, wherein the cab is a vehicle cab.