Claims

[Claim 1] A sacrificial composite part (1) that absorbs the energy released when a vehicle collides with an impacting object (2), said part (1) consisting of an assembly of a plurality of cells (3) having a cross-section being generally circular, each cell (3) comprising a wall (5) connecting a first end (6) and a second end (7) of said cell (3), the direction of penetration (8) of the impacting object (2) into said part (1) extending from said first end (6) towards said second end (7), the peripheral wall (5) of each cell (3) having a thickness (e) decreasing from said first end (6) towards said second end (7) of said cell (3), in the direction of penetration (8) of the impacting object (2), wherein each cell (3) of circular cross-section of the assembly is connected to at least one adjacent cell (3) by means of a connecting element (9) in the form of a partition, the thickness (e') of which decreases in the direction of penetration (8) of the impacting object (2).

[Claim 2] The sacrificial composite part (1) according to claim 1, characterised in that each of the cells of which it is composed has an internal cross-section whose surface area increases from said first end (6) towards said second end (7) of said cell (3), in the direction of penetration (8) of the impacting object (2).

[Claim 3] The sacrificial composite part (1) according to claim 1 or 2, characterised in that it comprises a lower sole (11) considering the direction of penetration (8) of the impacting object (2).

[Claim 4] The sacrificial composite part (1) according to any one of claims 1 to 3, characterised in that it comprises a connecting bar (12) overhanging the cells (3) as viewed in the direction of penetration (8) of the impacting object (2).