Claims

1. Suspension system for a tracked vehicle (1) of the type, comprising support wheels (4) arranged on opposite sides of the vehicle (1) for contact against the inside of a respective endless drive track (6), the support wheels (4) being rotatably journalled at an outer end of a respective rocker arm (8), which at its inner end to a limited extent is pivotably journalled in the side of a vehicle body (10) of the vehicle (1), which rocker arm (8) comprises a first pivot axis (12), which extends transversely to the longitudinal extent of the vehicle (1), wherein a first torsion element (14) is rotationally fixed to the first pivot axis (12) and which first torsion element (14) is arranged to be fixedly fastened in the side of the vehicle body (10), ~~**characterized in that**~~ and wherein a support device (11; 111) is arranged to cooperate with the rocker arm (8) to relieve the first torsion element (14)~~.~~

~~2. Suspension system according to claim 1~~, **characterized in that** the support device (11; 111) comprises a support arm (18; 118) which cooperates with the rocker arm (8), which at its inner end to a limited extent is pivotably journalled in the side of the vehicle body (10), which support arm (18; 118) comprises a second pivot axis (22) extending transversely to the longitudinal extent of the vehicle (1), wherein a second torsion element (23) is rotationally fixed to the second pivot axis (22) and said second torsion element (23) is arranged to be fixedly fastened in the side of the vehicle body (10).

23. Suspension system according to claim 12, **characterized in that** an outer end of the support arm (18; 118) is arranged to abut against the rocker arm (8).

34. Suspension system according to claim 23, **characterized in that** a roller (40) is journalled at the outer end of the support arm (18; 118), which roller (40) is arranged to abut against the rocker arm (8).

45. Suspension system according to any of claims ~~2~~-41-3, **characterized in that** the support arm (18) extends substantially axially.

65. Suspension system according to any of claims ~~2-4~~1-3, **characterized in that** the support arm (118) comprises a first and second substantially axial portion (142, 144), which extend in different directions.

76. Suspension system according to any of the above claims, **characterized in that** the first torsion element (14) comprises a first rubber bushing (27), which is rotationally fixed to the first pivot axis (12) and which first rubber bushing (27) is enclosed by and fixedly connected to a first outer bushing sleeve (16) arranged to be fixedly fastened in the side of the vehicle body (10).

87. Suspension system according to any of claims ~~2-7~~1-6, **characterized in that** the second torsion element (23) comprises a second rubber bushing (29) which is rotationally fixed to the second pivot axis (22) and which second rubber bushing (29) is enclosed by and fixedly connected to a second outer bushing sleeve (30) arranged to be fixedly fastened in the side of the vehicle body (10).

98. Tracked vehicle (1), **characterized in that** it comprises a suspension system (2; 102) according to claims 1 - 87.