

CLAIMS

1. A method (M1) performed by a control device (100) for controlling driving operation of an articulated tracked vehicle (V), said articulated tracked vehicle (V) comprising a drive arrangement (120) for driving drive wheels (1) for
5 operating the vehicle (V), the articulated tracked vehicle (V) comprising a first vehicle unit (V1) and a second vehicle unit (V2) steerably connected to the first vehicle unit (V1) by means of a steering device (D) for mutually pivoting said vehicle units (V1, V2), the mutual pivoting comprising steering movement about a steering axis (Y), the steering device (D) comprising a steering
10 arrangement (A1) for said steering movement, the method comprising the steps of:
 - controlling (S1) the steering arrangement (A1) of the steering device (D) so as to control mutual steering movement of said vehicle units for dynamic stability control.
- 15 2. A method according to claim 1, wherein the step of controlling the steering arrangement (A1) is performed by means of a control arrangement (110).
3. A method according to claim 2, wherein the step of controlling the steering arrangement by means of the control arrangement (110) comprises providing a brake function and/or a locking function and/or a damping function and/or an
20 actuation function of the control arrangement (110).
4. A method according to any of claims 1-3, wherein the step of controlling mutual steering movement of said vehicle units (V1, V2) further comprises controlling one or more of: power provision of the drive arrangement (120); a braking system (130) of the vehicle; and a transmission arrangement of the
25 vehicle.
5. A method according to any of claims 1-4, wherein the step of controlling mutual steering movement of said vehicle units (V1, V2) is performed based on one or more of: steering angle between said vehicle units (V1, V2); power

of said drive arrangement (120); speed of drive wheels; speed of transmission; steering wheel angle of steering wheel of vehicle.

6. A control device (100) for controlling driving operation of an articulated tracked vehicle (V), said articulated tracked vehicle comprising a drive arrangement (120) for driving drive wheels for operating the vehicle, the articulated tracked vehicle comprising a first vehicle units (V1) and a second vehicle units (V2) steerably connected to the first vehicle units (V1) by means of a steering device for mutually pivoting said vehicle units (V1, V2), the mutual pivoting comprising steering movement about a steering axis (Y), the steering device (D) comprising a steering arrangement (A1) for said steering movement, the control device being configured to:
- control (S1) the steering arrangement (A1) of the steering device so as to control mutual steering movement of said vehicle units (V1, V2) for dynamic stability control.
7. A control device according to claim 6, the control device being configured to control the steering arrangement (A1) by means of a control arrangement (110).
8. A control device according to claim 7, the control arrangement (110) comprising a brake member (112) for providing a brake function and/or a locking member (114) for providing a locking function and/or a damping member (116) for providing a damping function and/or an actuator member (118) for providing an actuation function.
9. A control device according to any of claims 6-8, the control device (100), when controlling mutual steering movement of said vehicle units (V1, V2), further being configured to control one or more of: power provision of the drive arrangement (120); a braking system (130) of the vehicle (V); and a transmission arrangement (140) of the vehicle (V).
10. A control device according to any of claims 6-9, the control device (100), when controlling mutual steering movement of said vehicle units (V1, V2), is

configured to perform said control based on one or more of: steering angle between said vehicle units (V1, V2); power of said drive arrangement (120); speed of drive wheels (1); speed of transmission; steering wheel angle of steering wheel of vehicle (V).

- 5 11. An articulated tracked vehicle (V) comprising a control device (100) according to any of claims 6-11.

12. A computer program (P) for controlling driving operation of an articulated tracked vehicle, said computer program (P) comprising program code which, when run on a control device (100) or another computer (500) connected to
10 the control device (100), causes the control device to perform the steps according to claim 1-5.

13. A computer readable medium comprising instructions which, when executed by a computer, cause the computer to carry out the method according to anyone of claims 1-5.