CLAIMS

1. A vehicular cleaning system comprising,

a cleaning agent dispenser configured to administer a cleaning agent to a surface of a subject for cleaning, ~~wherein the cleaning agent comprises one or more nanoparticulate material~~ and

a chemical agent dispenser configured to separately administer a chemical agent to the surface of the subject for cleaning for the chemical agent to react with the cleaning agent to form resultant foam.

2. The vehicular cleaning system as claimed in claim 1, wherein the cleaning agent comprises a mixture of metal-oxide nanoparticles.

~~2~~3. The vehicular cleaning system as claimed in claims 1 or 2, wherein the subject for cleaning is a car.

~~3~~4. The vehicular cleaning system as claimed in claims ~~1~~ 2 or ~~2~~3, further comprising an electromagnetic wave emitting source configured to provide a specific wavelength of an electromagnetic wave to the surface of the subject for cleaning.

~~4. The cleaning system as claimed in any one of claims 1 to 3, wherein the cleaning agent further comprises a pre-mixed chemical agent to facilitate foaming of the cleaning agent.~~

~~5. The cleaning system as claimed in any one of claims 1 to 4, further comprising a chemical agent dispenser configured to administer a chemical agent to the surface of the subject for cleaning.~~

~~6~~5. The vehicular cleaning system as claimed in ~~any one of~~ claims ~~3 to 5~~4, wherein the electromagnetic wave emitting source is configured to emit a wavelength in a range of about 200 nm to about 380 nm to activate the ~~one or more nanoparticulate material~~mixture of metal-oxide nanoparticles.

~~7. The cleaning system as claimed in claims 5 or 6, wherein the chemical agent dispenser is configured to administer the chemical agent to react with the cleaning agent to form resultant foam.~~

~~8~~6. The vehicular cleaning system as claimed in any one of claims ~~5~~ 1 to ~~7~~5, wherein the chemical agent dispenser is configured to administer the chemical agent as a coating layer on the surface of the subject for cleaning.

~~9~~7. The vehicular cleaning system as claimed in any one of claims ~~5~~ 1 to ~~7~~5, wherein the chemical agent dispenser is configured to administer the chemical agent in one or more bands on the surface of the subject for cleaning.

~~10~~8. The vehicular cleaning system as claimed in claim ~~9~~7, wherein the one or more bands is applied along one or more axes selected from a group consisting of a horizontal axis, a vertical axis and a diagonal axis with respect to the subject for cleaning.

~~11. The cleaning system as claimed in any one of claims 1 to 10, wherein the nanoparticulate material comprises metal oxide nanoparticles.~~

~~12. The cleaning system as claimed in any one of claims 1 to 11, wherein the cleaning agent comprises 0.3% by volume of TiO_2 and 0.3% by volume of ZnO.~~

~~13~~9. The vehicular cleaning system as claimed in any one of claims 2 to ~~8~~11, wherein the mixture of metal-oxide nanoparticles comprises ~~a mixture of~~ titanium dioxide (TiO_2), zinc oxide (ZnO) and aluminium oxide (Al_2O_3).

10. The vehicular cleaning system as claimed in claim 9, wherein the cleaning agent comprises 0.3% by volume of TiO_2 and 0.3% by volume of ZnO.

~~14~~11. The vehicular cleaning system as claimed in any one of claims 1 to ~~13~~10, further comprising a processing module configured to control the vehicular cleaning system.

~~15~~12. The vehicular cleaning system as claimed in any one of claims 1 to ~~14~~11, further comprising a wind generator configured to produce air movement over the subject for cleaning.

~~16~~13. The vehicular cleaning system as claimed in any one of claims 1 to ~~15~~12, further comprising a ~~water~~ fluid dispenser configured to administer fluid for rinsing the subject for cleaning.

~~17~~14. The vehicular cleaning system as claimed in claim ~~16~~13, wherein the ~~water~~ fluid dispenser is further configured to administer fluid with a temperature of about 40°C to about 70°C.

~~18~~15. The vehicular cleaning system as claimed in claims ~~16~~ 13 or ~~17~~14, wherein the ~~water~~ fluid dispenser is further configured to administer fluid with a pressure in a range of about 20 psi (138 kPa) to about 100 psi (689 kPa).

16. The vehicular cleaning system as claimed in any one of claims 1 to 15, wherein the cleaning agent further comprises a pre-mixed chemical agent to facilitate foaming of the cleaning agent.

~~19~~17. A method of cleaning a vehicular subject, the method comprising,

administering a cleaning agent to a surface of the vehicular subject, ~~the cleaning agent comprising one or more nanoparticulate material~~and

administering a chemical agent to the surface of the vehicular subject to react with the cleaning agent for forming resultant foam.

18. The method as claimed in claim 17, wherein the cleaning agent comprises a mixture of metal-oxide nanoparticles.

~~20~~19. The method as claimed in claims 17 or ~~19~~18, wherein the vehicular subject is a car.

~~21~~20. The method as claimed in any one of claims ~~19 or 20~~17 to 19, further comprising providing a specific wavelength of an electromagnetic wave to the surface of the vehicular subject.

~~22. The method as claimed in any one of claims 19 to 21, wherein the cleaning agent further comprises a pre-mixed chemical agent to facilitate foaming of the cleaning agent.~~

~~23. The method as claimed in any one of claims 19 to 22, further comprising administering a chemical agent to the surface of the subject.~~

~~24~~21. The method as claimed in ~~any one of~~ claims ~~21 to 23~~20, wherein the step of providing a specific wavelength of an electromagnetic wave comprises providing an electromagnetic wave with a wavelength in a range of about 200 nm to about 380 nm.

~~25. The method as claimed in claims 23 or 24, wherein the step of administering a chemical agent comprises forming resultant foam by administering the chemical agent to react with the cleaning agent.~~

~~26~~22. The method as claimed in any one of claims ~~23~~ 17 to ~~25~~21, further comprising applying the chemical agent as a coating layer on the surface of the vehicular subject.

~~27~~23. The method as claimed in any one of claims ~~23~~ 17 to ~~25~~21, further comprising applying the chemical agent in one or more bands on the surface of the vehicular subject.

~~28~~24. The method as claimed in claim ~~27~~23, wherein the step of applying the chemical agent in the one or more bands comprises applying the chemical agent along one or more axes selected from a group consisting of a horizontal axis, a vertical axis and a diagonal axis with respect to the vehicular subject.

~~29. The method as claimed in any one of claims 19 to 28, wherein the nanoparticulate material comprises metal-oxide nanoparticles.~~

~~30. The method as claimed in any one of claims 19 to 29, wherein the cleaning agent comprises 0.3% by volume of TiO_2 and 0.3% by volume of ZnO.~~

~~31~~25. The method as claimed in any one of claims 18 to ~~24~~29, wherein the mixture of metal-oxide nanoparticles comprises ~~a mixture of~~ titanium dioxide (TiO_2), zinc oxide (ZnO) and aluminium oxide (Al_2O_3).

26. The method as claimed in claim 25, wherein the cleaning agent comprises 0.3% by volume of TiO_2 and 0.3% by volume of ZnO.

~~32~~27. The method as claimed in any one of claims ~~19~~ 17 to ~~31~~26, further comprising producing air movement over the vehicular subject.

~~33~~28. The method as claimed in any one of claims ~~19~~ 17 to ~~32~~27, further comprising administering fluid to rinse the vehicular subject.

~~34~~29. The method as claimed in claim ~~33~~28, further comprising administering the fluid with a temperature of about 40°C to about 70°C.

~~35~~30. The method as claimed in claims ~~33~~ 28 or ~~34~~29, further comprising administering the fluid with a pressure in a range of about 20 psi (138 kPa) to about 100 psi (689 kPa).

31. The method as claimed in any one of claims 17 to 30, wherein the cleaning agent further comprises a pre-mixed chemical agent to facilitate foaming of the cleaning agent.

~~36~~32. A non-transitory computer readable storage medium having stored thereon instructions for instructing a processing module of a vehicular cleaning system to execute a method of cleaning a vehicular subject, the method comprising,

administering a cleaning agent to a surface of the vehicular subject~~, the cleaning agent comprising one or more nanoparticulate material~~, and

administering a chemical agent to the surface of the vehicular subject to react with the cleaning agent for forming resultant foam.

33. The non-transitory computer readable storage medium as claimed in claim 32, wherein the cleaning agent comprises a mixture of metal-oxide nanoparticles.

~~37~~34. The non-transitory computer readable storage medium as claimed in claims ~~36~~32 or 33, wherein the vehicular subject is a car.

~~38~~35. The non-transitory computer readable storage medium as claimed in any one of claims ~~36~~ 32 ~~or~~ to ~~37~~34, said method further comprising,

providing a specific wavelength of an electromagnetic wave to the surface of the vehicular subject.

~~39. The non-transitory computer readable storage medium as claimed in any one of claims 36 to 38, said method further comprising,~~

~~administering a chemical agent to the surface of the subject.~~