Claims:

1. A frame-supported vehicle comprising at least one frame component made of a material with light diffusing properties forming a leaky light pipe, and at least one light source for launching light into the leaky light pipe, and wherein the light source is disposed such that the light therefrom propagates internally within the material of the at least one frame component away from said at least one light source axially along the light pipe and is externally visible off axis, at least in part due to the light diffusing properties of the material, as the light propagates internally within the light pipe.

2. A frame-supported vehicle as claimed in claim 1, wherein the at least one light source comprises an LED.

3. A frame-supported vehicle as claimed in claim 1 or 2, wherein the at least one external light source is mounted at the end of the light pipe.

4. A frame-supported vehicle as claimed in claim 1 or 2, wherein the at least one external light source is mounted at both ends of the frame component.

5. A frame-supported vehicle as claimed in any one of claims 1 to 3, wherein the frame component is made of a polymeric light diffusing material.

6. A frame-supported vehicle as claimed in claim 5, wherein the polymeric material contains beads or particles to enhance the light diffusing properties.

7. A frame-supported vehicle as claimed in claim 5, wherein the polymeric material has fluorescent properties.

8. A frame-supported vehicle as claimed in any one of claims 1 to 7, wherein the frame component is etched or engraved to form indicia that become illuminated by light refracted from within the frame component.

9. A frame-supported vehicle as claimed in any one of claims 1 to 8, wherein the frame component is a rod.

10. A frame-supported vehicle as claimed in any one of claims 1 to 8, wherein the frame component is a tube.

11. A frame-supported vehicle as claimed in any one of claims 1 to 10, comprising a unitary molded unitary frame incorporating at least one said frame component.

12. A frame-supported vehicle as claimed in claim 11, wherein the light elements are recessed into the ends of the frame components.

13. A frame-supported vehicle as claimed in claim 11, wherein the unitary molded frame is made of polycarbonate.

14. A frame-supported vehicle as claimed in any one of claims 1 to 14, which is a bicycle.

15. A frame structure for a frame-supported vehicle comprising at least one rod or tube made of a material with light diffusing properties forming a leaky light pipe, and at least one light source for launching light into the leaky light pipe, and wherein the light source is disposed such that the light therefrom propagates internally within the material of the at least one rod or tube away from said at least one light source axially along the light pipe and is externally visible off axis, at least in part due to the light diffusing properties of the material, as the light propagates within the light pipe.

16. A frame structure as claimed in claim 15, wherein at least one light source comprises an LED.

17. A frame structure as claimed in claim 15 or 16, wherein the at least one light source is mounted at one end of the rod or tube.

18. A frame structure as claimed in claim 15 or 16, wherein the at least one light source is mounted at both ends of the rod or tube.

19. A frame structure as claimed in any one of claims 15 to 18, wherein the material is a polymeric light diffusing material.

20. A frame structure as claimed in claim 19, wherein the polymeric material contains beads or particles to enhance its light diffusing properties.

21. A frame structure as claimed in claim 19, wherein the polymeric material is polycarbonate.

22. A frame structure as claimed in claim 21, wherein the rod or tube is etched or engraved to form indicia that become illuminated by refracting the light propagated along the frame component.

23. A frame structure as claimed in any one of claims 15 to 22, wherein the at least one light source is recessed into at least one end of the rod or tube.

24. A frame structure as claimed in any one of claims 15 to 24, wherein the frame structure comprises several frame sections molded as an integral unit, at least one of which forms said at least one rod or tube.