SUMMARY

[005a] According to a first aspect, there is provided a marking system for use with a projectile comprising at least one module, which comprises a first section, a second section, and a third section, and wherein the at least one module activates such that light or heat is generated upon an expulsion charge initiation, and wherein the marking system generates multiple signals; the first section comprises a fluorescent system, a thermal-generating system, and a chemical light system, wherein the fluorescent system and the chemical light system generate substantially the same first color, the second section comprises a fluorescent system, a thermal-generating system, and a chemical light system, wherein the fluorescent system and the chemical light system generate substantially the same second color, and the third section comprises a fluorescent system, a thermal-generating system, and a chemical light system, wherein the fluorescent system and the chemical light system generate substantially the same third color.

[005b] According to a second aspect, there is provided a marking system for use with a projectile comprising at least three modules, wherein at least one of the at least three modules activates such that light or heat is generated upon a delayed expulsion charge initiation, wherein each of the at least three modules comprises a first section, a second section, and a third section, and wherein the first section comprises a fluorescent system, a thermal-generating system, and a chemical light system, wherein the fluorescent system and the chemical light system generate substantially the same first color, the second section comprises a fluorescent system, a thermal-generating system, and a chemical light system, wherein the fluorescent system and the chemical light system generate substantially the same second color, and the third section comprises a fluorescent system, a thermal-generating system, and a chemical light system, wherein the fluorescent system and the chemical light system generate substantially the same third color.

WHAT IS CLAIMED IS:

1. A marking system comprising at least one module, which comprises at least two sections, wherein the at least one module fails upon an expulsion charge initiation, and wherein the at least two sections each independently comprise at least one system chosen from a fluorescent system, a thermal-generating system, and a chemical light system.

2. The marking system according to claim 1, wherein the at least one module comprises a first section, a second section, and a third section, and

wherein the first section comprises a fluorescent system, a thermal-generating system, and a chemical light system, wherein the fluorescent system and the chemical light system generate substantially the same first color,

the second section comprises a fluorescent system, a thermal-generating system, and a chemical light system, wherein the fluorescent system and the chemical light system generate substantially the same second color, and

the third section comprises a fluorescent system, a thermal-generating system, and a chemical light system, wherein the fluorescent system and the chemical light system generate substantially the same third color.

3. The marking system according to claim 2, wherein at least two of the first, second, and third colors are different.

4. The system according to claim 3, wherein the marking system is comprised within a projectile chosen from 18mm rocket propelled grade munitions, howitzer shells, gravity bombs, small caliber munitions used in pistols, small caliber munitions use in handguns, medium caliber munitions ranging from 20 mm to 83 mm, and larger caliber munitions ranging from 83mm to 155 mm.

5. The multiple-module marking system according to claim 3, wherein the marking system is comprised within a 40 mm projectile.

6. The multiple-module marking system according to claim 1, wherein the marking system generates a signal that is visible in the daylight and a signal that is visible in darkness.

7. A marking system comprising at least three modules,

wherein at least one of the at least three modules fail upon a delayed expulsion charge initiation,

wherein each of the at least three modules comprises a first section, a second section, and a third section, and

wherein the first, second, and third sections independently comprise at least one system chosen from a fluorescent system, a thermal-generating system, and a chemical light system.

8. The marking system according to claim 7,

wherein the first section comprises a fluorescent system, a thermal-generating system, and a chemical light system, wherein the fluorescent system and the chemical light system generate substantially the same first color,

the second section comprises a fluorescent system, a thermal-generating system, and a chemical light system, wherein the fluorescent system and the chemical light system generate substantially the same second color, and

the third section comprises a fluorescent system, a thermal-generating system, and a chemical light system, wherein the fluorescent system and the chemical light system generate substantially the same third color.

9. The marking system according to claim 8, wherein at least two of the first, second, and third colors are different.

10. The marking system according to claim 8, wherein at least two of the at least three modules fail upon a delayed expulsion charge initiation.

11. The marking system according to claim 8, wherein at least three of the at least three modules fail upon a delayed expulsion charge initiation.

12. The marking system according to claim 9, wherein the marking system is included within a projectile chosen from 18mm rocket propelled grade munitions, howitzer shells, gravity bombs, small caliber munitions used in pistols, small caliber munitions use in handguns, medium caliber munitions ranging from 20 mm to 83 mm, and larger caliber munitions ranging from 83mm to 155 mm.

13. The marking system according to claim 9, wherein the marking system is included within 40 mm projectile.

14. The marking system according to claim 7, wherein the marking system generates a signal that is visible in the daylight and a signal that is visible in darkness.

15. A marking system comprising:

at least one first part comprising a first module;

at least one second part comprising a second module; and

at least one third part comprising a third module;

wherein at least one of the modules fail upon expulsion charge initiation, and

wherein at least one of the modules comprises a fluorescent system and a chemical light system that generate substantially the same color.

16. The marking system according to claim 15, wherein at least two of the at least three modules fail upon a delayed expulsion charge initiation.

17. The marking system according to claim 15, wherein at least three of the at least three modules fail upon a delayed expulsion charge initiation.

18. The marking system according to claim 15, wherein the marking system is included within a projectile chosen from 18mm rocket propelled grade munitions, howitzer shells, gravity bombs, small caliber munitions used in pistols, small caliber munitions use in handguns, medium caliber munitions ranging from 20 mm to 83 mm, and larger caliber munitions ranging from 83mm to 155 mm.

19. The marking system according to claim 15, wherein the marking system is included within 40 mm projectile.

20. The marking system according to claim 15, wherein the marking system generates a signal that is visible in the daylight and a signal that is visible in darkness.

WHAT IS CLAIMED IS:

1. A marking system for use with a projectile comprising at least one module, which comprises a first section, a second section, and a third section, and wherein the at least one module activates such that light or heat is generated upon an expulsion charge initiation, and wherein the marking system generates multiple signals;

the first section comprises a fluorescent system, a thermal-generating system, and a chemical light system, wherein the fluorescent system and the chemical light system generate substantially the same first color,

the second section comprises a fluorescent system, a thermal-generating system, and a chemical light system, wherein the fluorescent system and the chemical light system generate substantially the same second color, and

the third section comprises a fluorescent system, a thermal-generating system, and a chemical light system, wherein the fluorescent system and the chemical light system generate substantially the same third color.

2. The marking system according to claim 1, wherein at least two of the first, second, and third colors are different.

3. The marking system according to claim 2, wherein the marking system is comprised within a projectile chosen from 18 mm rocket propelled grade munitions, howitzer shells, gravity bombs, small caliber munitions used in pistols, small caliber munitions use in handguns, medium caliber munitions ranging from 20 mm to 83 mm, and larger caliber munitions ranging from 83 mm to 155 mm.

4. The marking system according to claim 2, wherein the marking system is comprised within a 40 mm projectile.

5. The marking system according to claim 2, wherein the marking system generates a signal that is visible in the daylight and a signal that is visible in darkness.

6. The marking system according to claim 1, wherein the marking system generates a signal that is visible in the daylight and a signal that is visible in darkness.

7. The marking system according to claim 1, wherein the marking system is comprised within a projectile chosen from 18 mm rocket propelled grade munitions, howitzer shells, gravity bombs, small caliber munitions used in pistols, small caliber munitions use in handguns, medium caliber munitions ranging from 20 mm to 83 mm, and larger caliber munitions ranging from 83 mm to 155 mm.

8. The marking system according to claim 1, wherein the marking system is comprised within a 40 mm projectile.

9. A marking system for use with a projectile comprising at least three modules,

wherein at least one of the at least three modules activates such that light or heat is generated upon a delayed expulsion charge initiation,

wherein each of the at least three modules comprises a first section, a second section, and a third section, and

wherein the first section comprises a fluorescent system, a thermal-generating system, and a chemical light system, wherein the fluorescent system and the chemical light system generate substantially the same first color,

the second section comprises a fluorescent system, a thermal-generating system, and a chemical light system, wherein the fluorescent system and the chemical light system generate substantially the same second color, and

the third section comprises a fluorescent system, a thermal-generating system, and a chemical light system, wherein the fluorescent system and the chemical light system generate substantially the same third color.

10. The marking system according to claim 9, wherein at least two of the first, second, and third colors are different.

11. The marking system according to claim 10, wherein the marking system is included within a projectile chosen from 18 mm rocket propelled grade munitions, howitzer shells, gravity bombs, small caliber munitions used in pistols, small caliber munitions use in handguns, medium caliber munitions ranging from 20 mm to 83 mm, and larger caliber munitions ranging from 83 mm to 155 mm.

12. The marking system according to claim 10, wherein the marking system is included within 40 mm projectile.

13. The marking system according to claim 10 wherein at least two of the at least three modules activates such that light or heat is generated upon a delayed expulsion charge initiation.

14. The marking system according to claim 10, wherein at least three of the at least three modules activates such that light or heat is generated upon a delayed expulsion charge initiation.

15. The marking system according to claim 10, wherein the marking system generates a signal that is visible in the daylight and a signal that is visible in darkness.

16. The marking system according to claim 9, wherein at least two of the at least three modules activates such that light or heat is generated upon a delayed expulsion charge initiation.

17. The marking system according to claim 9, wherein at least three of the at least three modules activates such that light or heat is generated upon a delayed expulsion charge initiation.

18. The marking system according to claim 9, wherein the marking system generates a signal that is visible in the daylight and a signal that is visible in darkness.

19. The marking system according to claim 9, wherein the marking system is included within a projectile chosen from 18 mm rocket propelled grade munitions, howitzer shells, gravity bombs, small caliber munitions used in pistols, small caliber munitions use in handguns, medium caliber munitions ranging from 20 mm to 83 mm, and larger caliber munitions ranging from 83 mm to 155 mm.

20. The marking system according to claim 9, wherein the marking system is included within 40 mm projectile.