



PATENTS AND PRODUCTS

Dr. Carl J. Abraham, P.E.

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**Summary of Curriculum Vitae
Dr. Carl J. Abraham**

Patents and Products

Presentations and Papers

Human Factors, Safety & Hazard Analysis

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1. High temperature carbonaceous and siliceous materials; dental and medical fields, industrial formulations for air and water pollution fields; polymers and novel adhesives; formulations for cleaning - industrial and consumer applications; glass and coating formulations.
2. Head Gear in Sports - U.S. Patent No. 4,342,122, August 3, 1982. (Licensed to Riddell - BIOLITE face masks, a new generation of protective equipment).
3. Flexible Face Mask Improvement - U.S. Patent No. 4,631,758, dated December 30, 1986.
4. Protective Shield For Battery - U.S. Patent 4,699,855 granted June 1987; issued Oct. 13, 1987
5. Canadian Patent, issued May 14, 1991, No. 1284174.
6. Japanese Patent Application No. 60888/1987
7. Protective Shield for Battery - Improvement - U.S. Patent No. 4,770,958, September 13, 1988.
8. West German Patent Application No. P38 04 447.1.
9. Great Britain Patent No. 2208032, dated May 31, 1988
10. Italian Patent Application, No. 67503-A/88
11. French Patent Application No. 88 10747
12. Storage Battery Having a Protective Shield - Deflectable Battery Shield, U.S. Patent No. 4,952,468, August 28, 1990
13. Spanish Patent No. 2,021,505, March 21, 1992
14. British Patent, issued September 7, 1989, No. 2,235,085
15. Italian Patent Application 68583-A/89.
16. French Patent Application No. 89 17442/140644.
17. West German Patent Application No. A228P102.
18. Flame Retardants for Linseed Oil: Formulations and Applications - C. J. Abraham, et al. U.S. Patent. 5,540,762, issued July 30, 1996.
19. Non-Toxic Animal Repellent: C. J. Abraham, U.S. Patent 5,554,377, September 10, 1999.
20. Apparatus For Enhancing Absorption And Dissipation Of Impact Forces For All Protective Headgear: C. J. Abraham, U.S. Patent 6,272,692, Aug. 14, 2001.
21. Fog-Free Protective Glasses, Goggles, and Non-Protective Glasses: C. J. Abraham. U. S. Patent applied for in June 2001.
22. Apparatus For Enhancing Absorption And Dissipation Of Impact Forces For All Protective Headgear, Abraham, C. J., U. S. Patent No. 6,272,692, 8/14/01.
23. Apparatus For Enhancing Absorption And Dissipation Of Forces For All Helmets And Protective Equipment, Abraham, C. J., et al., U. S. Patent No. 6,282,724, Sep. 4, 2001.
24. Impact And Energy Absorbing Product For Floors, Walls, Panels, And Other Flat Surfaces, Abraham, C. J., et al., Patent applied for in June 2001, approved 2/02.
25. Impact And Energy Absorbing Product For Helmets And Protective Gear, C. J. Abraham, et al. U. S. Patent

- 6,378,140, April 30, 2002.
26. Enhanced Impact And Energy Absorbing Product For Footwear, Protective Equipment, Floors, Boards, Walls, And Other Surfaces, U. S. Patent applied for in November 2001.
 27. Enhanced Impact And Energy Absorbing Product For Footwear, Protective Equipment, Floors, Boards, Walls, And Other Surfaces", U. S. Patent applied for in May 2002.
 28. Animal Repellent, U.S. Patent 5,554,377, September 10, 1996.
 29. Self Locking Adjustable Bracelet, U.S. Patent 5,603,231, February 18, 1997.
 30. Self Locking Breakaway Band, U.S. Patent 5,657,645, July 19, 1997.
 31. Solid And Liquid Compositions For Dispersion Of Insect Repellent Based On DEET, U.S. Patent 2,738,862, April 14, 1998.
 32. Insect Repellent Candle And Method Of Making Same, U.S. Patent 5,854,284, December 29, 1998.
 33. Apparatus For Enhancing Absorption And Dissipation Of Impact Forces For Sweatbands, C. J. Abraham, US Patent applied for August 2002.