Pioneering and innovative products/technologies developed by Dr. Gordhan Patel in diverse fields of science and technology

1. Products based on solid state polymerization of diacetylenes:
    a. Time-temperature indicators based on solid state polymerization of diacetylenes. (USP #3,999,946)
    b. High sensitivity radiation dosimeters (Diacetylenes as Radiation Dosage Indicators, G.N. Patel, Radiat. Phys. Chem., 18, 913 (1981))
2. Time-temperature indicators (TTI)
    a. VVM based on solid state polymerization of diacetylenes (USP #3,999,946)
    b. Two tape TTI (USP # 5,053,339)
    c. Thermally activated TTI (USP #4,276,190)
    d. Moving boundary TTI (USP # 4,195,055; 5,045,283 and 10,451595)
3. Color changing and color developing freeze and thaw indicators (USP # 6472214; USP # 9581504)
4. Radiation Therapy film (USP # 5,420,000)
5. Emergency citizens' radiation dosimeters (USP # 7,227,158; 7476874)
6. Ultrasonic indicators (USP # 12,761,195)
7. Universal sterilization indicators (USP # 8343437)
8. Extending shelf-life of foods (USP # 11,737,481)
9. Debittering – Making non-palatable food palatable (India patent # 201924050400)
10. Rust proofing by glass-lining
11. Products based on destruction of nano-structures (CA # 2,773,073)
12. Phenol free substitute for bisphenol-A for direct thermal paper
13. Fast and high-capacity desiccants
14. Highly nutritious non-dairy milk
15. Novel solar cell