

# William Brooks' Invention History

## Published Documents

**RO894-0264** Manufacturable Magneto-resistive Slider Electrical Overstress Protector, IBM Technical Disclosure Bulletin Volume 38, No. 01, January, 1995.

**22 other published documents** in the IBM Technical Disclosure Bulletin over my IBM career that I won't list here. These all related to disk drive development.

## Patents

1. **U.S. Patent No. 4,853,811.** Redesigned 3370-Type Suspension With Improved Dynamic Performance And Reduced Spring Rate, August 1, 1989. Co-inventors: Curtis J. Clemen, Jerome T. Coffey, Timothy P. Coffield and David R. Larson.
2. **U.S. Patent No. 5,074,029.** Method For Stringing Wire On An Actuator Arm, December 24, 1991. Co-inventors: Jeffrey B. Brown, Jerome T. Coffey, Richard H. Estry, Marlin P. Graves, Gary L. Heitkamp, Larry H. Lengerman, Thomas J. Myhre Sr., Terrance L. Schaefer, Paul D. Teig, Arvid C. Tougas, Donald J. Wanek, John H. Wirz and Walter E. Zahn.
3. **U.S. Patent No. 5,419,033.** Method Of Making Load Spring Manufacturing Assembly Having An Electric Conductor Carrying And Positioning Tail For Carrying A Conductor Bonded To The Surface Of A Load Spring, May 30, 1995. Co-inventors: Jeffrey B. Brown, Jerome T. Coffey, Richard H. Estry, Marlin P. Graves, Gary L. Heitkamp, Larry H. Lengerman, Thomas J. Myhre Sr., Terrance L. Schaefer, Paul D. Teig, Arvid C. Tougas, Donald J. Wanek, John H. Wirz and Walter E. Zahn.
4. **U.S. Patent No. 5,530,606.** Low Profile Head Suspension Assembly, June 25, 1996. Co-inventors: Holger J. Baasch, Jerome T. Coffey and David L. Roach.
5. **U.S. Patent No. 5,572,387.** Low Profile Head Suspension Assembly With Load And Unload Capability, November 5, 1996. Co-inventors: Jeffrey B. Brown, Jerome T. Coffey and Donald J. Wanek.
6. **U.S. Patent No. 5,623,758.** Method Of Fabricating A Low Profile Head Suspension Assembly Having Load And Unload Capability, April 29, 1997. Co-inventors: Jeffrey B. Brown, Jerome T. Coffey and Donald J. Wanek.
7. **U.S. Patent No. 5,659,449.** Direct Access Storage Device With A Molded Actuator Motor Coil Support, August 19, 1997. Co-inventors: Jerome T. Coffey and Donald J. Wanek.
8. **U.S. Patent No. 5,717,545.** Swaging Apparatus With A Tubular Boss Having Axially Extending Surface Irregularities And Swaging Technique For Thin

- Actuator Arm Assemblies, February 10, 1998. Co-inventors: Norman K. Frater and Oscar J. Ruiz.
9. **U.S. Patent No. 5,734,523.** Conductive Film Connectors For Use On Head Assemblies In Drives, March 31, 1998. Co-inventor: Ralph W. Scheidecker.
  10. **U.S. Patent No. 5,835,311.** Shock-Resistant Data Storage System Actuator Assembly, November 10, 1998. Co-inventors: Jerome T. Coffey and Brian E. Schultz.
  11. **U.S. Patent No. 5,873,159.** Method Of Manufacturing A Transducer Suspension System, February 23, 1999. Co-inventors: Satya P. Arya, Wesley L. Hillman, Tzong-Shii Pan, John E. Sell, Victor W. C. Shum and Randall G. Simmons.
  12. **U.S. Patent No. 5,875,072.** Low Profile Head Suspension Assembly With Load And Unload Capability, February 23, 1999. Co-inventors: Jeffrey B. Brown, Jerome T. Coffey and Donald J. Wanek.
  13. **U.S. Patent No. 5,892,637.** Multi-Piece Integrated Suspension Assembly For A Magnetic Storage System, April 6, 1999. Co-inventors: Darrell D. Palmer, Randall G. Simmons, Steven H. Voss and Victor W. C. Shum.
  14. **U.S. Patent No. 5,903,413.** Fan And Fold Head Lead Termination Structure Using Flex Cable With Edge Termination Pads, May 11, 1999. Co-inventors: Jerome T. Coffey, Todd P. Fracek, Richard E. Lagergren, James M. Rigotti and Marvin A. Schlimmer.
  15. **U.S. Patent No. 5,969,906.** Transducer Suspension System Having Access Aperture, October 19, 1999. Co-inventors: Satya P. Arya, Wesley L. Hillman, Tzong-Shii Pan, John E. Sell, Victor W. C. Shum and Randall G. Simmons.
  16. **U.S. Patent No. 5,986,852.** High Capacity, High Performance Low Profile Disk Drive, November 16, 1999. Co-inventors: Lowell J. Berg, Jerome T. Coffey, Daniel L. Good, Richard Greenberg, Peter M. Herman, John C. Jans, Sr., Kenneth W. Meyer, Jerry L. Neubauer, Steven H. Voss, Donald J. Wanek and Walter E. Zahn.
  17. **U.S. Patent No. 6,067,220.** Shunt For Protecting A Hard File Head, May 23, 2000. Co-inventor: Robert D. Ahmann.
  18. **U.S. Patent No. 6,087,620.** Method Of Fabricating A Composite Actuator Arm Assembly, July 11, 2000. Co-inventors: Lowell J. Berg, Jerome T. Coffey and Brian E. Schultz.
  19. **U.S. Patent No. 6,145,188.** Fan And Fold Head Lead Termination Method Using Flex Cable With Edge Termination Pads, November 14, 2000. Co-inventors: Jerome T. Coffey, Todd P. Fracek, Richard E. Lagergren, James M. Rigotti and Marvin A. Schlimmer.

20. **U.S. Patent No. 6,517,517.** Automated Injection Device For Administration Of Liquid Medicament, June 8, 2000. Co-inventors: Gianrico Farrugia, Mark H. Ereth, Jerry L. Neubauer, James M. Rigotti and Peter Schuller.

21. **U.S. Patent No. 6,697,704.** “Automatic Prescription Drug Dispenser”, February 24, 2004. The only inventor listed on the patent was Ken Rosenblum, but the system was invented by a group which included Ken, but also included a number of engineers at PEMSTAR including especially Bill Picken and myself, William W. Brooks Jr. Bill and I invented the labeling system used to label all of the different sized and shaped prescription drug containers.

### **Patent Applications**

**US Patent Application 200YYYYYY.** “Pneumatically actuated product security and delivery system”. Co-inventors: Ken Rosenblum and Donald John Wanek. This is in process of issuing.

**U.S. Patent Application 20080116643.** “Paper Football Product”, May 22, 2008. Co-inventors: Gregory A. Miranda, Kurt Randall Knappen, Donald John Wanek and William W. Brooks Jr. This may have been abandoned by the principle, Greg Miranda.

**U.S. Patent Application 200XXXXXX.** (SLW 2758.001US1) “Pneumatic Injector”, to be published approximately October 8, 2010 (18 months after filing). Co-inventor: Donald John Wanek. This is in the process of issuing.