

Appendix G:
Major MSFC Patents

POWER TO EXPLORE: HISTORY OF MSFC

Source: Significant NASA Inventions. G.P.O., 1986.

Date Filed: 26 June 1970
Date Issued: 25 July 1972
Inventor: Bernard Rubin, et al.
Description: A process for the preparation of calcium phosphate salts for deposit from a gel medium onto the surface of a tooth. The gel diffusion process on the enamel aids repair of damaged tooth.

Date Filed: 16 January 1970
Date Issued: 4 January 1972
Inventor: John R. Rasquin, et al.
Description: A device to fabricate industrial-grade diamonds from common graphite by concentrated shock wave energy.

Date Filed: 24 March 1971
Date Issued: 15 July 1975
Inventor: Felix P. LaIacoma
Description: A process for the fabrication of a graphite-reinforced aluminum composite utilizing diffusion-bonding and nickel coating to produce a high-strength, low-density material.

Date Filed: 20 March 1972
Date Issued: 1 January 1974
Inventor: James M. Hoop
Description: A method of testing devices exposed to high voltage discharges utilizing ultrasonic energy. A high-frequency arc discharge through a coupling medium detects flaws.

Date Filed: 13 March 1975
Date Issued: 5 March 1974
Inventor: William Jabez Robinson, Jr.
Description: A microwave, remote, power transmission system automatically adjusted to increase or decrease the power output to a remote receiving station.

Date Filed: 11 March 1973
Date Issued: 24 June 1975
Inventor: Byron Hamilton Auker, et al.
Description: A boroaluminum silicate composite thermal coating for surfaces exposed to solar radiation, reentry heating, dust, and salt spray.

Date Filed: 11 July 1974
Date Issued: 9 December 1975
Inventor: James Albert Webster
Description: A fuel tank sealant composed of a polyimide that is strong and highly resistant to temperature extremes and is resistant to fuel corrosion.

Date Filed: 16 July 1974
Date Issued: 12 August 1975
Inventor: James Albert Webster
Description: A fuel tank sealant composed of tetracarboxylic acid and dianhydride.

Date Filed: 5 April 1975
Date Issued: 18 November 1975
Inventor: James Russell Lowery
Description: A panel for selectively absorbing solar energy for subsequent use in heating or cooling operations in a metal body.

Date Filed: 29 January 1976
Date Issued: 15 March 1977
Inventor: Lott W. Brantley, et al.
Description: A collector dish mount utilizing a rigid, angulated, axle that tracks the Sun both diurnally and seasonally.

Date Filed: 19 July 1976
Date Issued: 4 October 1977
Inventor: Frank J. Nola
Description: A power factor control system for alternate current induction motors that tests line voltage and regulates power to the motor.

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- Date Filed: 23 June 1976
Date Issued: 9 May 1978
Inventor: William Reynolds Feltner
Description: A method of making a field effect transistor from a semi-conductor through ion bombardment.
- Date Filed: 8 June 1976
Date Issued: 18 July 1978
Inventor: Barbara Scott Askins
Description: An auto-radiography process for treating photographic film.
- Date Filed: 24 February 1978
Date Issued: 4 March 1980
Inventor: John Kaufman
Description: A wind wheel electric power generator.
- Date Filed: 12 March 1980
Date Issued: 5 January 1982
Inventor: William N. Myers, et al.
Description: A wind turbine utilizing two chambers rotating independently.
- Date Filed: 23 October 1980
Date Issued: 21 February 1984
Inventor: Frank J. Nola
Description: A three-phase power factor controller for a three-phase induction motor.
- Date Filed: 13 October 1981
Date Issued: 13 September 1983
Inventor: Frank J. Nola
Description: A reduced voltage starter utilizing a power factor controller.
- Date Filed: 30 November 1981
Date Issued: 17 January 1984
Inventor: Frank J. Nola
Description: A trigger control circuit producing firing impulses through a power factor controller for preventing lags in current cycles of alternating current induction motors.

Date Filed: 23 April 1982
Date Issued: 11 October 1983
Inventor: John B. Tenney, Jr.
Description: A prosthetic device for use with tubular internal human organs.

Date Filed: 8 September 1983
Date Issued: 8 October 1985
Inventor: Glenn D. Craig
Description: A wide-range video camera.

Date Filed: 16 December 1982
Date Issued: 4 September 1984
Inventor: Frank J. Nola
Description: A three-phase power factor controller that contains an EMF sensing device for an alternating current induction motor.

Date Filed: 4 December 1982
Date Issued: 10 July 1984
Inventor: Frank J. Nola
Description: A phase detector for a three-phase power factor controller.

Date Filed: 23 July 1984
Date Issued: 1 November 1988
Inventor: Vernon W. Keller
Description: A warm fog dissipation device for airports by spraying large volumes of water.

Date Filed: 20 August 1987
Date Issued: 23 May 1989
Inventor: Daniel C. Carter
Description: A human serum albumin crystal for the production of new drugs.