NATIONAL SCIENCE FOUNDATION
DETERMINATIONS

Determinations Favorable

Herb - Pumping Apparatus (Ti-Rod Pump)
U.S. Patent No. 3,181,775 (S.N. 180,954), issued May 4, 1965
License to U.S. Government executed August 11, 1967

Herb - High Capacity Orbiting Electron Vacuum Pump
U.S. Patent No. 3,371,854 (S.N. 568,170), issued March 5, 1968
License to U.S. Government executed July 18, 1968

Herb - Orbitron Vacuum Gauge Having Collector for Scattered Electrons
U.S. Patent No. 3,449,660 (S.N. 571,560), issued June 10, 1969
License to U.S. Government executed July 18, 1968

Herb-Pauly - Electron Orbiting Devices
U.S. Patent No. 3,244,990 (S.N. 261,104), issued April 5, 1966
License to U.S. Government executed August 16, 1963

Herb-Pauly - Electron Orbiting Devices
U.S. Patent No. 3,244,969 (S.N. 332,190), issued April 5, 1966
License to U.S. Government executed June 29, 1967

Herb-Pauly - Electron Orbiting Devices
U.S. Patent No. 3,388,290 (S.N. 447,678), issued June 11, 1968
License to U.S. Government executed June 29, 1967

Parmentier-Scott - Neuristor Transmission Line, Learning Junction, and Artificial Neuron
U.S. Patent App. Ser. No. 746,078, filed July 19, 1968
Determination - January 17, 1967
License to U.S. Government executed September 30, 1968

Maliakal - Orbitron Vacuum Pump with Getter Vaporization by Resistance Heating
U.S. Patent No. 3,371,853, issued March 5, 1968
Determination - September 6, 1967
All obligations have been complied with --
License to U.S. Government executed November 1, 1967
Invention licensed.
Patent bears required legend.

Walters - Spectroscopic Spark Source

U.S. Patent App. Ser. No. 800,180, filed February 18, 1969
Determination - May 29, 1968
License to U.S. Government executed April 21, 1969

Larsen-Gil-Arnao - Process of Separation of Hafnium from Zirconium

U.S. Patent App. Ser. No. 797,683, filed February 7, 1969
Determination - (cleared by Prof. Young's letter of January 9, 1969)
License to U.S. Government executed April 22, 1969

Determinations Requested

Walters-Bruhns - Current-Injection Spark Source for Emission Spectroscopy

U.S. Patent App. Ser. No. , filed February , 1970
Determination - requested
Invention reported to NSF by Walters September 18, 1969
Invention disposition request sent to NSF by Gentry November 28, 1969
Copy of patent application as filed sent to NSF February 26, 1970

Fitzsimmons - Method and Apparatus for Producing Intense Broad-Band Ultraviolet Radiation

U.S. Patent App. Ser. No. , filed March , 1970
Determination - requested
Invention reported to NSF by Bremer via telephone call March 19, 1970 - permission was granted to file patent application
Copy of patent application and paper which was to be published March 23, 1970, was sent to NSF March 20, 1970

Determinations Denied

Röller-Dahm - Juvenile Hormone

U.S. Patent App. Ser. No. 727,049, filed May 6, 1968
(continuation-in-part of U.S. Patent App. Ser. No. 706,616, filed February 19, 1968 - abandoned)
Determination - May 17, 1968 -WARF denied rights - Patent App. assigned to U.S. Government May 24, 1968