

## APPENDIX C

### Patents Resulting from Activities Supported by The National Science Foundation

The Foundation since its last Annual Report has received notification of the issuance of four patents by the U.S. Patent Office covering inventions arising out of Foundation-supported activities.

1. Patent Number 3,109,933 entitled, "Photoelectric High Scanning-Rate Digital Storage and Read-Out Device," was issued on November 5, 1963, on an invention made during the course of research conducted by Dr. Dwight M. Baumann when he was an NSF Fellow. The invention relates to high scanning-rate storage devices and methods, and more particularly, to photographic techniques for high-scanning-rate digital storage and read-out.
2. Patent Number 3,111,512 entitled, "Thiolation of Proteins with N-Acyl-Homocysteine Thiolactone," was issued on November 19, 1963, on an invention made by Rheinhold Benesch and Ruth E. Benesch during the course of research supported by grants to the State University of Iowa, the University of Wisconsin, and the Marine Biological Laboratory. It relates to methods for the introduction of sulfhydryl ( $\text{—SH}$ ) groups and disulfide ( $\text{—SS—}$ ) bonds into macromolecules containing aliphatic amino groups, particularly proteins, and to the novel thiolated proteins and their oxidation products.
3. Patent Number 3,117,210 entitled, "Apparatus for Evaporating Materials," was issued on January 7, 1964, on an invention made by Raymond G. Herb during the course of research supported at the University of Wisconsin. It provides an improved source for evaporating materials used in coating, gettering, ionic pumping of gas, etc.
4. Patent Number 3,127,361 entitled, "Process for Producing Polymers of Tri-O-p-Tolylsulfonyl-Sucrose and Polymers of Tetra-O-p-Tolylsulfonyl-Sucrose, and Resulting Polymers," was issued on March 31, 1964, to the United States of America as represented by the Secretary of the Army, assignee of Louis Long, Jr., and Erik Vis, on an invention made during the course of research supported by a grant to the U.S. Army—Natick Laboratories. It concerns tolylsulfonyl-sucrose containing compositions and

processes for making them. These compositions are useful as adhesives, cellular plastics, and for other purposes.

Pursuant to the provisions of the grants and fellowships involved, the Foundation has secured for the Federal Government, royalty-free licenses to utilize the first three inventions described above for governmental purposes.