

# **Jack S. Kilby Papers**

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Prepared by Connie L. Cartledge with the assistance of Tracey R. Barton and Sherralyn McCoy

## Collection Summary

**Title:** Jack S. Kilby Papers

**Span Dates:** 1878-2003

**Bulk Dates:** (bulk 1970-1998)

**ID No.:** MSS85317

**Creator:** Kilby, Jack S., 1923-

**Extent:** 34,500 items ; 106 containers plus 20 oversize ; 45.8 linear feet

**Language:** Collection material in English

**Location:** Manuscript Division, Library of Congress, Washington, D.C.

**Summary:** Engineer and inventor. Correspondence, memoranda, patents and related material, drawings, blueprints, transparencies, photographs, subject files, speeches, writings, newspaper clippings, and printed matter relating primarily to Kilby's inventions and projects while an engineer and later a consultant for Texas Instruments. The papers also document Kilby's work as a consultant and adviser to various companies and organizations.

## Selected Search Terms

The following terms have been used to index the description of this collection in the Library's online catalog. They are grouped by name of person or organization, by subject or location, and by occupation and listed alphabetically therein.

### People

Adcock, Willis--Correspondence.

Bucy, J. F.--Correspondence.

Cameron, Janet K.--Correspondence.

Emmons, Stephen P.--Correspondence.

Gross, Al--Correspondence.

Haggerty, Patrick E.--Correspondence.

Hashimoto, Kazuo, -1995--Correspondence.

Johnson, Peter--Correspondence.

Kilby, Ann--Correspondence.

Kilby, Jack S., 1923-

Kilby, Jane, -2004--Correspondence.

Lathrop, Jay W.--Correspondence.

Phipps, Charles H.--Correspondence.

Porter, Wilbur A.--Correspondence.

### Organizations

GM Hughes Electronic Corporation.

Semiconductor Research Corporation.

Texas Instruments Incorporated.

United States. Army. Signal Corps.

United States. Department of Defense.

United States. Office of Strategic Services.

### Subjects

Calculators.

Capacitors.

Electric power.

Electrostatics.

Integrated circuits.

Microelectronics.

Particles.

Patents.

Radio paging.

Semiconductors.

Silicon.  
Solar energy.  
Telephone answering and recording apparatus.  
World War, 1939-1945--Burma.  
World War, 1939-1945--China.  
World War, 1939-1945--India.  
Wrist watches.

### **Occupations**

Engineers.  
Inventors.

## **Administrative Information**

### **Provenance**

The papers of Jack S. Kilby, engineer and inventor, were given to the Library of Congress by Kilby's daughters, Janet K. Cameron and Ann Kilby, in 2006.

### **Processing History**

The Jack S. Kilby Papers were arranged and described in 2007. The Artifact series was rehoused in 2012 and the finding aid was revised.

### **Transfers**

Items have been transferred from the Manuscript Division to other custodial divisions of the Library. Some photographs have been transferred to the Prints and Photographs Division. Videotapes and a sound recording have been transferred to the Motion Picture, Broadcasting, and Recorded Sound Division. Some books have been transferred to the Library's general collection. All transfers are identified in these divisions as part of the Jack S. Kilby Papers.

### **Copyright Status**

Copyright in the unpublished writings of Jack S. Kilby in these papers and in other collections in the custody of the Library of Congress is reserved. Consult a reference librarian in the Manuscript Division for further information.

### **Access and Restrictions**

The papers of Jack S. Kilby are open to research. Researchers are advised to contact the Manuscript Reading Room prior to visiting. Many collections are stored off-site and advance notice is needed to retrieve these items for research use.

### **Preferred Citation**

Researchers wishing to cite this collection should include the following information: Container number, Jack S. Kilby Papers, Manuscript Division, Library of Congress, Washington, D.C.

## **Biographical Note**

<i>Date</i>	<i>Event</i>
1923, Nov. 8	Born, Jefferson City, Mo.
1943-1945	Enlisted in United States Army Signal Corps and later served with the Office of Strategic Services
1947	B.S., University of Illinois Urbana-Champaign, Urbana, Ill.
1947-1958	Engineer, Centralab, a division of Globe-Union Corp., Milwaukee, Wis.

1948	Married Barbara Annegers
1950	M.S., University of Wisconsin, Madison, Wis.
1958	Invented the monolithic integrated circuit
1958-1970	Engineer, Texas Instruments, responsible for integrated circuit development and applications
1969	Awarded National Medal of Science
1970	Director of engineering and technology for the Components Group
1970-circa 1997	Independent consultant
1978-1984	Professor of electrical engineering, Texas A&M University, College Station, Tex.
1982	Inducted into the National Inventors Hall of Fame, United States Patent Office
1989	Awarded Charles Stark Draper Prize, National Academy of Engineering
1990	Awarded National Medal of Technology
1993	Awarded Kyoto Prize in Advanced Technology
2000	Awarded Nobel Prize in physics
2005, June 20	Died, Dallas, Tex.

## Scope and Content Note

The papers of Jack St. Clair Kilby (1923-2005) span the years 1878-2003, with the majority of the papers concentrated between 1970 and 1998. The bulk of the papers document Kilby's work as an inventor and engineering consultant, 1970-circa 1997, mainly for Texas Instruments. The collection also includes a small amount of material relating to Kilby's tenure as an employee and manager with Texas Instruments from 1958 to 1970. While working at Texas Instruments in 1958, Kilby invented the monolithic integrated circuit, also known as the chip or microchip, facilitating the development of the modern computer and numerous electronic products. The papers consist of six series: [Correspondence](#), [Patent and Project File](#), [Subject File](#), [Speeches and Writings File](#), [Artifacts](#), and [Oversize](#). A collection of photographs, memorabilia, and awards of Kilby was given by his family to the DeGolyer Library of Southern Methodist University in Dallas, Texas.

The [Correspondence](#) series documents Kilby's personal and professional activities. The early correspondence, 1961-1970, consists mostly of Kilby's outgoing letters and memoranda relating to his work with semiconductors. Under Kilby's leadership, the staff at Texas Instruments worked to utilize microchip technology for military, industrial, and commercial applications. Correspondence from the 1980s through 2003 consists mostly of incoming letters, including a few family letters between Kilby and his sister, Jane Kilby, his daughters, Janet K. Cameron and Ann Kilby, and their children. Kilby's letters to his parents during his military service in World War II are in the family papers of the [Subject File](#) series. Also interfiled in the Correspondence series in later years is a small amount of business statements and reports, newsletters, and travel vouchers.

The [Patent and Project File](#) is comprised mainly of papers relating to Kilby's patents and inventions. Although Kilby took a leave of absence in 1970 from Texas Instruments to focus on inventing, he still served as a part-time consultant for Texas Instruments. The majority of the series relates to his work for the company on a solar energy project, Project Illinois, from about 1975 to 1984. The project studied the use of silicon technology to generate electrical power from sunlight. At the

time it was considered to be a promising energy source for residential homes but was discontinued because of lack of funding for commercial production. The files also contain a significant amount of material relating to Kilby's telephone answering devices and a small amount pertaining to projects that Kilby worked on while a full-time employee of Texas Instruments: circuits, semiconductors, and his development of the first electronic miniature calculator. This series does not include files about his invention of the first integrated circuit but contains material about patents and patent disputes relating to the integrated circuit. Also in the papers are drawings for his inventions and a laboratory notebook with notes and a few drawings pertaining to Kilby's teaching machine and system, electrostatic display system, telephone and paging devices, wristwatch, and other projects.

The [Subject File](#) consists mostly of files relating to Kilby's work as an independent consultant and adviser for the Department of Defense and companies and organizations such as GM Hughes Electronic Corporation, Semiconductor Research Corporation, and Texas Instruments. The correspondence in the Texas Instruments files include monthly summaries describing Kilby's activities while serving as a consultant. Other prominent topics featured are microelectronics, semiconductors, and integrated circuits. There are many files relating to awards received by Kilby such as the National Science Medal in 1970, the National Inventors Hall of Fame in 1982, the National Medal of Technology in 1990, and the Nobel Prize in physics in 2000. Included in the files of the technology medal and Nobel Prize are photographs and transparencies of the first integrated circuit and photographs and transparencies of a page of Kilby's laboratory notebook describing the integrated circuit. Family papers in the Subject File include letters from Kilby to his parents while serving in the United States Signal Corps and his deployment with the Office of Strategic Services to Burma, India, and China during World War II.

The [Speeches and Writing File](#) consists mainly of speeches, speech outlines, and writings by Kilby. Also in the writings are newspaper and journal articles about Kilby. The [Artifacts](#) include chips, particles, capacitors, solar-energy presentation material, and charts relating to Kilby's inventions and projects.

Prominent and frequent correspondents in the collection are Willis Adcock, J. F. Bucy, Stephen P. Emmons, Al Gross, Patrick E. Haggerty, Kazuo Hashimoto, Peter Johnson, Jay W. Lathrop, Charles H. Phipps, and Wilbur A. Porter.

## Organization of the Papers

The collection is arranged in six series:

- [Correspondence, 1953-2003](#)
- [Patent and Project File, 1878-1995](#)
- [Subject File, 1923-2002](#)
- [Speeches and Writings File, 1959-2002](#)
- [Artifacts, 1948-1995](#)
- [Oversize, 1967-1997](#)

## Description of Series

<i>Container</i>	<i>Series</i>
BOX 1-32	<p><b><u>Correspondence, 1953-2003</u></b></p> <p>Letters and memoranda between Kilby and friends, family, work colleagues, acquaintances, and the public and material relating to personal and professional activities.</p> <p>Arranged in reverse chronological order.</p>
BOX 32-75	<p><b><u>Patent and Project File, 1878-1995</u></b></p> <p>Correspondence, memoranda, patents, drawings, blueprints, transparencies, laboratory notebooks, notes, legal papers, reports, presentations, photographs, research material, lists, newspaper clippings, and printed matter.</p> <p>Arranged alphabetically by project or type of material and therein chronologically.</p>
BOX 76-103	<p><b><u>Subject File, 1923-2002</u></b></p> <p>Correspondence, memoranda, patents, presentations and writings, family papers, notes, oral history interviews, financial and legal papers, photographs, calendars, business cards, passports and travel documents, certificates, newspaper clippings, and printed matter.</p> <p>Arranged alphabetically by name of person or organization, topic, or type of material and therein chronologically.</p>
BOX 103-106	<p><b><u>Speeches and Writings File, 1959-2002</u></b></p> <p>Correspondence, speeches and speech material, articles, a foreword to a book, research material, notes, outlines, newspaper clippings, and printed matter.</p> <p>Arranged alphabetically by type of material and therein chronologically or alphabetically.</p>
BOX 106	<p><b><u>Artifacts, 1948-1995</u></b></p> <p>Chips, particles, capacitors, solar-energy presentation material, charts, and other material.</p> <p>Arranged by topic or type of material and therein chronologically.</p>
BOX OV 1-OV 20	<p><b><u>Oversize, 1948-1997</u></b></p> <p>Oversize material consisting of drawings, blueprints, transparencies, posters, certificates, photographs, artifacts, and printed matter.</p> <p>Arranged and described according to the series, containers, and folders from which the items were removed.</p>

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<i>Container</i>	<i>Contents</i>
<b>BOX 1-32</b>	<b>Correspondence, 1953-2003</b> Letters and memoranda between Kilby and friends, family, work colleagues, acquaintances, and the public and material relating to personal and professional activities. Arranged in reverse chronological order.
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<b>BOX 2</b>	1964-1967 (11 folders) 1968 Jan.-Sept. (5 folders)
<b>BOX 3</b>	Oct.-Dec. (2 folders) 1969-1970 (12 folders) 1971 Jan.-Apr. (4 folders)
<b>BOX 4</b>	May-Dec. (5 folders) 1972 Jan.-Sept. (10 folders)
<b>BOX 5</b>	Oct.-Dec. (3 folders) 1973 (9 folders) 1974 Jan.-Apr. (4 folders)
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## Correspondence, 1953-2003

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## Correspondence, 1953-2003

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	(6 folders)
	Financial papers, 1986-1989
	General, 1986-1989, undated
	(2 folders)
	Notebook, 1986-1987
<b>BOX 91</b>	Notes, 1986-1989, undated
	(2 folders)
	Presentations, 1986-1988
	(3 folders)
	Reports
	1986
	(4 folders)

## Subject File, 1923-2002

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BOX 92	1987-1989 (6 folders) Haggerty, Patrick E., 1960-1969 Houston Advanced Research Center, Woodlands, Tex. 1980-1985 1986 Jan.-Apr. (3 folders)
BOX 93	May-Dec. (3 folders) 1990-1996 Houston Area Research Center, Woodlands, Tex. <u>See same container, Houston Advanced Research Center</u> Institute of Electrical and Electronics Engineers, 1967-1998 <u>See also Oversize</u> (2 folders) Integrated circuit, thirtieth anniversary, 1988 Kilby International Awards, 1993-2001, undated (4 folders)
BOX 94	Kyoto, Japan, 1969, 2000-2002 Microelectronics, 1947-1948, 1960-1969, 1975-1976, 1984, undated (5 folders) Military service <u>For additional material see Containers 84-85, Family papers, correspondence</u> Discharge papers, order, and certificate, 1946, 1983 Newsletters, 1997 Photographs, undated Rosters, 1993, 2000-2002 Miscellany, 1939, 1970-1998, undated (3 folders)
BOX 95	Moore, Gordon E., 1972-1975, 1995-1997 National Academy of Engineering, 1973-1996 (2 folders) National Science Talent Search Award, 1996-1997 Noyce, Robert, 1977-1982, 1988-1990 Oral history interviews, 1976, 1984 Passports and other travel documents, 1965-1996 Popop Society meeting, Moscow, USSR, 1967-1968 (2 folders)
BOX 96	Radio service, microwave, 1970-1973 Semiconductor Research Corp. General, 1984-1986, undated (3 folders) Invention disclosure review material General, 1986
BOX 97	Nos. SRC-101 to SRC-121, 1984-1986 (15 folders) Semiconductors and integrated circuits

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<i>Container</i>	<i>Contents</i>
	1959-1960 (2 folders)
BOX 98	1961-1999 (7 folders)
	Undated (1 folder)
BOX 99	(2 folders)
	Tech Electro Industries, 1992-1994 (2 folders)
	Texas A & M University, College Station, Tex., 1975-1985 (3 folders)
	Texas Instruments Consulting agreements General, 1970-1981, 1991-1993, undated (4 folders)
BOX 100	Solar energy, 1975-1983 (2 folders)
	Correspondence, 1959, 1971-1987 (10 folders)
	General 1966-1989 (2 folders)
BOX 101	1991-1999, undated <i>See also Oversize</i>
	Kilby Center, Dallas, Tex., 1997
	Reports, 1959-1970, 1992 (3 folders)
	Semiconductor-Components Division, 1959, 1965, undated (2 folders)
	Semiconductor Networks Department, 1960-1962 (3 folders)
BOX 102	Semiconductor Research and Development Laboratory, 1965, 1978
	Transistors, 1952, 1960-1961, 1979-1985, 1998, undated (2 folders)
	Tsukuba Expo'85, Tsukuba, Japan, 1985 (3 folders)
	Tubular IR drawings, 1958 (3 folders)
BOX 103	Wyle Laboratories, 1988-1997 (3 folders)
BOX 103-106	<b>Speeches and Writings File, 1959-2002</b> Correspondence, speeches and speech material, articles, a foreword to a book, research material, notes, outlines, newspaper clippings, and printed matter. Arranged alphabetically by type of material and therein chronologically or alphabetically.
BOX 103	Speech file By Kilby

## Speeches and Writings File, 1959-2002

<i>Container</i>	<i>Contents</i>
	1959, 1965-1984 (11 folders)
BOX 104	1985-2002, undated (12 folders) By others, 1983, 1997-1999 Writings file By Kilby 1959-1965, 1971-1975 (5 folders)
BOX 105	1976-1979, 1988-1998, undated (10 folders) By others About Kilby 1966-1978 (4 folders)
BOX 106	1979-2001, undated <i>See also Oversize</i> (7 folders) Miscellaneous, 1965-1968, 1975-1997 (7 folders)
BOX 106	<b>Artifacts, 1948-1995</b> Chips, particles, capacitors, solar-energy presentation material, charts, and other material. Arranged by topic or type of material and therein chronologically.
BOX 106	<i>See Oversize</i>
BOX OV 1-OV 20	<b>Oversize, 1948-1997</b> Oversize material consisting of drawings, blueprints, transparencies, posters, certificates, photographs, artifacts, and printed matter. Arranged and described according to the series, containers, and folders from which the items were removed.
BOX OV 1	Patent and Project File Cash register Drawings and transparencies, 1972, undated (Container 34)
BOX OV 2	Check writer, electronic Drawings, photographs, and transparencies, 1972-1974, undated (Container 34)
BOX OV 3	Electrostatic display system Drawings and transparencies 1972, undated (Container 37)
BOX OV 4	Undated (Container 37)
BOX OV 5	Undated (Container 37)
BOX OV 6	Flashlight, reliable Drawings, 1973, undated (Container 42)
BOX OV 7	Miscellany, undated (Container 43)
BOX OV 8	Semiconductors Compatible module for electronic assembly, 1967 (Container 48)
BOX OV 9	Solar energy (Project Illinois)

## Oversize, 1948-1997

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	Drawings (Container 53)
BOX OV 10	Teaching system
	Drawings, blueprints, and transparencies, 1970-1971, undated (Container 69)
	(1 folder)
BOX OV 11	(1 folder)
BOX OV 12	(1 folder)
BOX OV 13	(1 folder)
BOX OV 14	Telephone
	Answering devices
	Drawings, diagrams, and transparencies, 1971, undated (Container 70)
BOX OV 15	Watches and clocks (electronic), display
	Drawing, undated (Container 74)
	Wristwatch, distributed
	Drawings and blueprints, 1974 (Container 75)
BOX OV 16	Subject File
	Awards and honors
	1990 (Container 79)
	Family papers
	Other papers, undated (Container 85)
BOX OV 17	Institute of Electrical and Electronics Engineers, 1984 (Container 93)
BOX OV 18	Texas Instruments
	General, 1997 (Container 101)
	Speeches and Writings File
	Writings
	By others
	About Kilby, 1989 (Container 106)
BOX OV 19	Artifacts (Container 106)
	Chips and related material, 1995, undated
	Dow Corning Award, undated
	Integrated circuits, vacuum tube, and transistors, undated
	Microcomponent examples, undated
	Particles, 1975, undated
	Radio frequency oscillator, 1948
	RCA capacitor, loop, and thick film chip with thin film in center, undated
	Resistors, packet examples, undated
	Solid circuits and semiconductors, 1964, undated
	Toll-tag pass for automobile, undated
	Thermal printer, undated
	Transistor assembly, tubular, undated
	Unidentified, undated
BOX OV 20	Solar-energy (Project Illinois) presentation material, undated (Container 107)