

## OVERVIEW OF THE COLLECTION

**Title:** Daniel Henderson Portable Electronic Devices Documentary Collection

**Collection Date(s):** 1968-2002

**Extent and Forms of Material:** 3 cubic feet; includes CD-ROMS (9 boxes and one oversize folder)

**Creator:** Daniel Henderson

**Abstract:** The collection consists of photocopied American, Japanese, German, and French patents; photocopied articles, advertisements, news releases, user manuals, buyer's guides, company analyses, technical references, and an oversize timeline documenting the history and development of cellular phones and related wireless devices.

**Repository:** Archives Center, National Museum of American History, Smithsonian Institution, Washington, D.C. [archivescenter@si.edu](mailto:archivescenter@si.edu) 202-633-3270 [www.americanhistory.si.edu/archives](http://www.americanhistory.si.edu/archives)

**Collection Number:** AC0875

**Processing Note:** Processed by Leslie Schuyler (intern), August 2005; revised Alison Oswald, archivist, November 2010; supervised by Vanessa Simmons, archivist.

## INFORMATION FOR USERS OF THE COLLECTION

**Conditions Governing Access:** The collection is open for research use.

**Conditions Governing Reproduction and Use:** Copyright held by the Smithsonian Institution. Collection items available for reproduction, but the Archives Center makes no guarantees concerning copyright restrictions. Other intellectual property rights may apply. Reproduction permission from Archives Center: reproduction fees may apply.

**Preferred Citation:** Title and date of item, Daniel Henderson Portable Electronic Devices Documentary Collection, dates, Archives Center, National Museum of American History, Smithsonian Institution, box number X, folder number XX, digital file number XXXXXXXXX

## IN-DEPTH INFORMATION ABOUT THE COLLECTION

**Administrative/Biographical History:** Dr. Kazuo Hashimoto, widely recognized as the father of the modern answering machine, was an inspired technologist who developed thousands of advancements in the field of telephony. Hashimoto registered over 1000 patents throughout the

world, over 800 of which are related to the telephone answering device. In 1993, inventor Daniel Henderson became an apprentice of Hashimoto and worked with him on licensing, management issues, and infringement analysis. After Hashimoto's death in August 1995, Henderson turned his attention to ensuring that Hashimoto's work would be respected in the telecommunications and computer industries. In 1996, Henderson and Hashimoto's widow co-founded PhoneTel Communications, a company dedicated to protecting the patent portfolios of inventors including Hashimoto. By successfully licensing with nearly every telecommunications and computer company, Henderson made sure Hashimoto's work was respected and rewarded.

Henderson has broad experience in the creation, management, and licensing of intellectual property. He also holds numerous patents in telephony and communications. Henderson was formerly with IBM Corporation and received the "Distinguished Alumnus Award" from Southern Oregon University. Henderson worked with Jack Kilby, who received the Nobel Prize for Physics in 2000 for the invention of the world's first integrated circuit (IC) chip. At the time this collection was donated, Henderson presided over several companies including PhoneTel Patent Services, PhoneTel Communications, and Pinpoint Incorporated. Henderson's many ties to the New Jersey Institute of Technology (NJIT) include establishing the PhoneTel IE Inventions and Patents Fund, the PhoneTel Endowed Graduate Fellowship Fund, and involvement in creating a new course entitled "Inventions and Patents." He was the commencement speaker when NJIT first presented the Hashimoto Prize in 1998.

**Scope and Content:** The collection consists of photocopied American, Japanese, German, and French patents; photocopied articles, advertisements, news releases, user manuals, buyer's guides, company analyses, technical references, and an oversize timeline. The collection provides documentation for 79 artifacts—including telephone answering machines, cellular phones, and related wireless devices—which Henderson donated to the museum's Electrical Collections holdings. Compiled by Henderson to accompany the artifacts, the materials document the history and development of cellular phones and related wireless devices. The materials are arranged into twelve series and reflect the original order in which Henderson created them. Henderson assembled books/binders of material with numeric dividers. There is no index nor is there a key to the four-letter alphabetical acronyms used in books four, eight and nine.

**Series 1, Book One, 1977-1994; Series 2, Book Two, 1978-1995; and Series 3, Book Three, 1978-1995,** contain photocopied American patents.

**Series 4, Book Four, 1992-2002,** is comprised of photocopied American patents divided into two separate arrangements: numerically from 300 to 363, and by four-letter code from DDTQ-DDUE.

**Series 5, Book Five, 1979-2002,** is comprised of photocopied American, French, German, and Japanese photocopied patents.

**Series 6, Book Six, 1990-1995,** consists of photocopied materials that include a Magic Cap catalog, a General Magic information pamphlet, English and Japanese articles, advertisements,

press releases, buyer's guides, Telecomworldwire news releases, Telocator Network Paging Protocol (October 20, 1993), and Telocator Data Protocol (June 12, 1993).

**Series 7, Book Seven, 1992-1995**, includes a Telocator Alphanumeric Protocol (July 21, 1994), several technical references, articles, user's manuals, advertisements, Telecomworldwire news releases, and technical references.

**Series 8, Book Eight, 1981-2002**, is divided into sections according to four-letter codes. In the attached container listing, the files are arranged and listed according to Henderson's original order. Materials include photocopied articles, news releases, advertisements, and user manuals.

**Series 9, Book Nine, 1991-2002**, is divided into sections according to four-letter codes. In the attached container listing, the files are arranged and listed according to Henderson's original order, followed by unlabeled materials. The first two folders have coded labels; the last three do not. Records in Book Nine are comprised of photocopied articles, news releases, and buyer's guides, in addition to company analyses for WORLDCOM and Sprint.

**Series 10, Book Ten, 1991-2002**, is comprised of unlabeled materials including articles, advertisements, and news releases, in addition to a photocopy of US patent # 3,727,003.

**Series 11, Book I-II, 1968-2002**, is divided into sections according to four-letter codes which are dated and arranged chronologically. In the attached container listing, the files are arranged and listed according to Henderson's original order. Materials are comprised of color computer prints of significant people and devices; and photocopies of patents, articles, and advertisements. CD-ROM 875.3 contains some of the articles in PDF format.

**Series 12, Timeline, 1968-2002**, consists of the Converged Wireless Communications / Computing Device Development timeline which traces the chronological development of portable electronic devices. The oversized chart measures 90" by 50" and begins with the first answering machine and ends with "Smart Phones." The timeline includes scanned images of inventors, patents, advertisements, devices, and textual information. Copies of the time line in PDF format are available on CD ROMS 875.1-2.

Information from the above historical note came primarily from the PhoneTel Communications website located at <http://www.phonetel.com>.

**System of Arrangement:** The collection is arranged into twelve series.

- Series 1, Book One, 1977-1994**
- Series 2, Book Two, 1978-1995**
- Series 3, Book Three, 1978-1995**
- Series 4, Book Four, 1992-2002**
- Series 5, Book Five, 1979-2002**
- Series 6, Book Six, 1990-1995**
- Series 7, Book Seven, 1992-1995**
- Series 8, Book Eight, 1981-2002**

**Series 9, Book Nine, 1991-2002**  
**Series 10, Book Ten, 1991-2002**  
**Series 11, Book I-II, 1968-2002**  
**Series 12, Timeline materials, 1968-2002**

**Languages:** Some materials in Japanese, German and French.

**Acquisition Information:** The collection was donated to the Archives Center, National Museum of American History by Daniel Henderson on April 25, 2003.

**Related Artifacts:** The Division of Work and Industry (formerly the Division of Information, technology and Society) holds artifacts, such as telephone answering machines, cell phones and related wireless devices related to this collection. See accession # 2003.0095.

**Access Points:**

**Subject/Topical:**

Cellular telephone equipment industry  
Inventions-20<sup>th</sup> century  
Inventors-1950-2000  
Telephone--History  
Telephone answering and recording equipment industry  
Telephone--Equipment and supplies

**Form/Genre:**

Manuals  
Patents  
Press releases  
Articles  
Technical notes  
Patents-20<sup>th</sup> century  
Photocopies

**CONTAINER LISTING**

<u>Box</u>	<u>Folder</u>	
		<b>Series 1, Book One, 1977-1994</b>
1	1	1-10, 1977-1994
	2	11-20, 1979-1994
	3	21-30, 1979-1992
	4	31-36, 1986-1994
	5	37-46, 1981-1993
	6	47-50, 1988-1994
		<b>Series 2, Book Two, 1978-1995</b>

2	1	51-64, 1978-1995
	2	65-66, 1986
	3	67-75, 1978-1993
	4	76-85, 1978-1994
	5	86-96, 1988-1994
	6	97-100, 1990-1992
		<b>Series 3, Book Three, 1978-1995</b>
3	1	101-110, 1982-1994
	2	111-118, 1978-1993
	3	119-124, 1979-1993
	4	125-131, 1986-1995
	5	132-147, 1983-1993
	6	148-152, 1984-1992
		<b>Series 4, Book Four, 1992-2002</b>
4	1	300-307, 1994-1996
	2	308-315, 1992-1996
	3	316-320; 363, 1995-0996
	4	DDTQ-DDUB, 1992-2002
	5	DDUC-DDUE, 1996-1999
		<b>Series 5, Book Five, 1979-2002</b>
	6	153-185, 1979-2002
5	1	272-281, 1994-1996
	2	282-290, 1995-1996
	3	291-299, 1994-1996
		<b>Series 6, Book Six, 1990-1995</b>
	4	186-193, 1993-1995
	5	194-211, 1992-1994
6	1	212-239, 1990-1994
	2	240, 1993
		<b>Series 7, Book Seven, 1992-1995</b>
	3	241-249, 1992-1994
	4	250-264, 1992-1995
	5	265, 1994
		<b>Series 8, Book Eight, 1981-2002</b>
	6	DDAK, DDAD, ABEM, ABEB, ABEC, ABDZ, ABCI, AAHO, AAEV, AACA, DDAS, DDAQ, DDAD, ABDR, ABDL, ABDG, ABDF, ABBT, ABBA, ABAR, AAXO, AAVL, AAVE, AAVD, AAMD, AALL, AALI, AAHH, AAGD, AAFW, AAFV, DDOQ, DDNB, DDOL, 1995-2002
7	1	DDMS, DDJW, DDJU, DDJT, DDJP, DDJQ, DDJP, DDJN, DDJL, DDJI, DDJH, DDIA, DDHZ, DDHV, DDHS, DDHO, DDHK, DDGI, DDFR, DDFD, DDEV, DDEF, DDEB, DDCS, DDCJ, DDCH, DDAV, DDAS, DDAL, DDPJ, DDOP, DDNY, DDNX, DDNW, DDMY, DDMX, DDMF, DDME, 1994-2002
	2	DDMD, DDMC, DDMB, DDMA, DDLZ, DDLY, DDLX, DDKS,

		DDKN, DDKB, DDKA, DDJZ, DDJD, DDII, DDIH, DDHS, DDHR, DDEG, DDDM, DDBX, ABEF, ABCT, ABCP, ABAR, 1993-2002
	3	ABAQ, ABAJ, ABAI, AAXL, AALB, AAFE, AADW, DDOK, DDNL, DDMV, DDMO, DDMI, DDLQ, DDLK, DDLE, DDLN, DDKJ, DDKH, DDKC, DDJX, DDJC, DDJA, DDIV, DDHR, DDHP, DDHN, 1981-2002
	4	DDHL, DDHF, DDHE, DDGX, DDGW, DDGU, DDGN, DDGG, DDFX, DDFV, DDEK, DDEU, DDDR, DDCG, DDCB, DDBX, DDBB, 1992-2002
		<b>Series 9, Book Nine, 1991-2002</b>
	5	JP-JU; AABT-AABZ; AACA-AACK; and AADI-AADM, 1991-1996
	6	AADN-AADP; AAAL; AAAH; KN-KP; KV, 1991-2002
8	1	Unlabeled Materials, 1992-2002
	2	Unlabeled Materials, 2001
	3	Unlabeled Materials, 1993-2002
	4	Unlabeled Materials, 1993-2002
	5	Unlabeled Materials, 1992-2002
		<b>Series 10, Book Ten, 1991-2002</b>
	6	Unlabeled Materials, 1991-2002
9	1	Unlabeled Materials, 1973-2002
	2	Unlabeled Materials, 1995-2002
		<b>Series 11, Books I-II, 1968-1993</b>
	3	1968 DDUF & DDUG; 1973 DDHU, DDUI, EAAB; 1976 EAAC, DDQU, DDRL; 1977 EACV; 1981 DDLN; 1987 EAAG; 1987 EAAA & EACP; 1989 DDQU & DDRL; 1987 EAAH; 1989 EAAI; 1989 EACW & EACX; 1992 DDUI; 1992 DDGX; 1992 DDPV; 1992 EACS; 1992 DDIR & DDGJ; 1992 DDKZ & EACY; 1992 EAAK, EAAL, EAAM, EAAJ, EAAO, EAAH; 1992 DDUK; 1993 EADE; 1993 AAFV; 1993 DDQS & DDBX; 1993 EADF; 1993 DDGX; 1993 DDRM & DDHF; 1993 DDQW & DDFY; 1993 DDGW; 1993 DDQZ & DDPX; 1993 DDQT & DDGJ
	4	1993 DDQW & DDFY; 1993 DDGM; 1993 EAAQ; 1993 DDQN; 1993 DDRP, EAAV, EAAR, EAAP, EAAS; 1993 EAAT; 1994 AAFW; 1994 EAAW, EAAX, EABG, EAAZ, EABH; 1994 DDRA, AAMD, HH; 1994 AALI & DDRC; 1994 DDRE & DDBU; 1994 DDQP; 1994 EABD, EABA, DDRO, EABA, EABF; 1994 DDRD; 1994 DDRB; 1994 EABB, EAAW, EABC; 1994 DDGN; 1994 DDAZ; 1995 DDRF & DDBT; 1995 DDRG, DDGR, DDIO, DDIN; 1995 DDRI, DDFZ, DDGD, DDHH; 1995 EABO; 1995 DDHE; 1995 AAVL
	5	1995 DDGL; 1995 ABAN; 1995 DDHP; 1995 EADD; 1995 DDQK & DDRH; 1995 EABM, EABN, EABP, EABS; 1995 EABQ, EABT, EABR, EABU; 1996 EADB, DDRQ, EADC; 1996

		DDSE; 1996 DDRJ & DDHN; 1996 DDRK & DDHJ; 1996 AAVL, EABV, EABZ; 1996 DDQL; 1996 DDRR & DDIK; 1996 EACA, EABW, EACA, EACB, EABX, EABY; 1996 EAOC; 1997 DDRU; 1997 DDQR; 1997 DDPZ; 1997 ABBH; 1997 EACC, EACD, EACE, EACO, EACF; 1998 EACG, EACH, EACI, EACJ, EACK, EACM; 1998 ABEA (empty); 1998 DDRT; 1998 DDIJ; 1998 DDRU; 1998 DDAP; 1999 EACL & EACN; 2000 DDRZ; 2000 DDRV & ABBB; 2000 EABL; 2001 ABFA; 2001 EADG; 2002 DDRX; 2002 EACT; 2002 DDGM & DDCH; 2002 DDRW & DDCF
		<b>Series 12, Timeline, 1968-2002</b>
	O/S Folder 1	Timeline of Converged Wireless Communications / Computing Device Development, (rolled drawing), 1968-2002
	CD 875.1-2	Converged Wireless Communications / Computing Device Development Timeline (PDF format), 1968-2002
	CD 875.3	Time line articles (PDF format), 1973-2002