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A Guide to the
ENIAC Patent Trial
Collection, 1864 - 1973 [1938 - 1971 bulk]

95 Cubic ft.

UPD 8.10

Prepared by John C. Parker and J.M. Duffin

1990

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PROVENANCE

Transferred in 1989 from the School of Engineering and Applied Science (accession number 89:80).

HISTORICAL SKETCH

There are two epochs in the history of computing: before the completion of the ENIAC (Electronic Numerical Integrator and Computer), and after. While there are several controversies about the development of the ENIAC and its immediate successors, there is nearly universal agreement on three points: the ENIAC was the watershed project which convinced the world that electronic computing was not merely possible, but practicable; it was a masterpiece of electrical engineering, unprecedented in reliability and computing speed; the two men most responsible for its conceptual and technical success were John Presper Eckert, Jr., and John William Mauchly, both of the Moore School of Electrical Engineering.

Electrical Engineering. ENIAC Papers
UPD 8.10
Inventory

The history of computing prior to the ENIAC was long and varied. The desire for a mechanical means of computation was ancient, and had prompted the invention of many devices from the abacus to the adding machine. These developments culminated in the work of Charles Babbage, whose grandiose, fully mechanical designs had largely been forgotten by the turn of the 20th century, and of Herman Hollerith, whose punched-card tabulators came to the rescue of the 1880 Federal Census. The one feature common to all these early inventions was that the structure was basically mechanical in nature. By the second decade of the twentieth century work was done on finding electro-mechanical computing devices to substitute the slower and inefficient machines. These efforts were undertaken by the Massachusetts Institute of Technology through the initiative of the electrical manufacturers and power companies who needed better equipment to monitor their large and expanding electrical systems. The result of this work was the creation of the differential or Bush analyzer. Though the Bush analyzer was able to perform many mathematical equations, it was still at its core a mechanical device with an electric drive and thus could produce the greater precision and accuracy desired by scientists. It was partially in response to this retardation in the advancement of electrical engineering technology that the ENIAC was developed.

The catalyst which advanced electrical engineering and the computer beyond the differential analyzer and to the ENIAC was the demands of the army during the 1930's and particularly the Second World War. The practical need which the differential analyzer could not solve effectively was the preparation of firing tables—charts which showed how to aim artillery accurately. Too many people and too much time was required to prepare these tables. The federal government was willing to fund research undertaken to improve upon the existing technology. Recognizing this opportunity to expand research and acquire new computing devices, the Moore School of Electrical Engineering of the University of Pennsylvania sought and obtained a contract to develop a differential analyzer of its own. The inadequacies of these mechanical devices at the Moore School were soon recognized by John W. Mauchly, a physics professor, and J. Presper Eckert, a graduate student. Both men believed the best

Electrical Engineering. ENIAC Papers
UPD 8.10
Inventory

way to improve computer devices was to make these machines primarily electronic rather than mechanical. Despite skepticism from his colleagues in the field, Mauchly thought that vacuum tubes could be used to accelerate calculations and to increase accuracy. Eckert also believed that not only could vacuum tubes be used but also that the existing tubes could be utilized if operated at low voltages. Sometime after Mauchly discussed their ideas with other faculty members and wrote a memo. In 1942 the liaison between the Army Ordnance and the Moore School, Lt. Herman H. Goldstine, heard of Mauchly's ideals for an electronic computer. Goldstine who was well acquainted with the shortcomings of the differential analyzer, was greatly interested in this project and suggested that a proposal to the army be written to develop an electronic computer. The Moore School officials took his advice and wrote a proposal. Finally, on April 9th, 1943 the Army granted a contract to the Moore School to build a large general-purpose electronic computer. By end of 1945 the electronic computer developed at the Moore School, known as the ENIAC was operational.

The significance of the ENIAC was soon understood by the many participants in its development who would later vie for recognition and control over the project. The first issue to cause problems later on was a paper written in June 1945 by John von Neuman, a mathematician who participated in discussions over the design of the ENIAC. In his paper von Neuman summarized the work of the project without giving any credit to Eckert or Mauchly; thus, presenting to those people in the profession who read the paper that von Neuman was responsible for the project. Another issue which created contention was patent rights and control over the project. During an attempt by Irven Travis to restructure the accounting operations and procedures of the Moore School in 1946, the Dean, Harold Presper, wrote a letter to Eckert and Mauchly in which he required them to sign a patent release form for all work they have done at the University and to place the interests of the University first rather than their own commercial interests in their work. Because they could not agree to such terms Eckert and Mauchly resigned from the Moore School staff in March of 1946. Though they had left the University and formed their own company, known as the Electronic Control Company, they still

Electrical Engineering. ENIAC Papers
UPD 8.10
Inventory

encountered problems over the ENIAC. In 1947 when they began to look into the possibility of taking out a patent on the ENIAC, Army lawyers informed them that the circulation of von Neuman's paper among people in the profession made the ideals from the ENIAC part of the public domain. Eckert and Mauchly, however, were able file a patent on the ENIAC in June of 1947. Armed with the patent to the ENIAC and freed from the constraints of the University, they hoped to succeed in forming a successful computer company; their attempts at this, however, failed when they were unable to maintain a dedicated funding source to cover the varied expenses. Eventually in February of 1950, Eckert and Mauchly were forced to sell their company, by then known as the Eckert-Mauchly Computer Corporation, and the patent rights to the ENIAC to Remington Rand Corporation. Though the ENIAC patent was owned by a large corporation, problems over the validity and rights to the invention continued.

While trying to secure the patent for the ENIAC, serious problems for the patent rights of Eckert and Mauchly, represented by Sperry Rand Corporation, arose in the 1960's. Sperry Rand was engaged, in the early 1960's, in litigation with Honeywell, Inc., and other companies, over the infringements of computer patents owned by Sperry Rand. By 1964 Sperry Rand was able to secure a stronger position on their claims to the electronic computer by being granted the ENIAC patent filed in 1947. Because of their former difficulties with Sperry Rand in the early 1960's and anticipated difficulties from a possible suit to collect royalties, Honeywell filed a suit against Sperry Rand in 1967 on the grounds of anti-trust violations and unjustified claims to the electronic computer. The case was heard in the 4th Division of the Minnesota District Court (No. 4-67-Civ. 138). During the course of the trial two major points rose which tested the rights of Eckert and Mauchly to the ENIAC patent. The first point was over where the basic ideals used in the ENIAC's design originated. Sperry Rand contented that the ENIAC was solely the invention of Eckert and Mauchly; however, Honeywell stated that Eckert and Mauchly had taken the idea from John Vincent Atanasoff and his assistant Clifford Berry. Building upon the basic historical view that all inventions are the result of the work of many

Electrical Engineering. ENIAC Papers
UPD 8.10
Inventory

people over time, Honeywell capitalized upon a visit Mauchly made in 1941 to Atanasoff. During this visit Atanasoff showed Mauchly a small electronic computer he had developed a few years before. Because there were some similarities in the design and operation of Atanasoff's machine with the ENIAC, Honeywell asserted that Eckert and Mauchly used Atanasoff's ideas for their own machine. The second major point concerned the filing of the patent in 1947. Because von Neuman had written a paper about the design of the ENIAC and circulated it a year before the patent application was filed, it was argued that the ENIAC had become part of the public domain and could not be patented. The U.S. District Court Judge in this case, Earl Richard Larson, determined that the ENIAC patent was invalid mainly because of the two points raised during the trial. He concluded that while Eckert and Mauchly may have created the ENIAC, they did not create the basic ideas used in the assembly of their computer.

SCOPE AND CONTENT

The ENIAC Papers are divided into two major series, viz., one, *Sperry Rand Corporation, John P. Eckert, Jr., and John W. Mauchly vs. Bell Telephone, Incorporated*; and two, *Honeywell, Incorporated vs. Sperry Rand Corporation and Illinois Scientific Developments, Incorporated*. The first series consists of only 2 cu. ft. and is primarily composed of exhibits used the case. A letter which was found in the series and is located in the first file indicates that these papers were sent to John Grist Brainerd, the head of the Moore School, in 1970 to assist him in his testimony for the *Honeywell vs. Sperry Rand* case. The papers are arranged by a code system which may have related to the original court filing. Unfortunately, a key to these codes was not found among the papers.

The second and largest group of material (92 cu. ft.) in the ENIAC papers is the case file for *Honeywell vs. Sperry Rand*. The series is grouped into several different categories, as follows: boxes

Electrical Engineering. ENIAC Papers
UPD 8.10
Inventory

1-3, lists, guides, and trial briefs for both the plaintiffs and defendants; boxes 3-11, the transcripts of the trial; boxes 12-16, depositions; boxes 16-59, the plaintiff's trial exhibits; boxes 60-91, the defendant's trial exhibits. The lists and guides are very useful in locating material in the rest of the series. For example, the copies of transcript index cards list, in order of exhibit number, all the exhibits introduced as evidence in the trial and cross reference them to the transcript. The most historically significant material is the depositions and trial exhibits. Both groups provide important information on the development of the ENIAC. One must bear in mind that only that information which would assist each litigants' claims was presented to the court. The exhibits contain a large collection of correspondence in addition to printed material relating to the development of the electronic computer. Almost all of the collection are photocopies of original documents. The notable exceptions are four original technical notebooks from the Mauchly Co. in the defendant's trial exhibits, being numbers 3844, 4194, 4234, 4284. Despite the large volume of material contained in this series, the files are not complete. There are numerous gaps throughout the collection which require one to check other repositories.

There are several places where one can find other copies and fuller copies of this collections material. At Hagley Museum and Library in Greenville, Delaware are the Sperry-UNIVAC Company Records, 1938-1970, which include the records of the Eckert-Mauchly Computer Corporation as well as the court papers for *Honeywell vs. Sperry Rand* and *Sperry Rand vs. Bell Telephone* -see Michael Nash *Computer, Automation, and Cybernetics at the Hagley Museum and Library* (Wilmington, Delaware: Hagley Museum and Library, 1989). The Charles Babbage Institute, University of Minnesota, Minneapolis, also has a collection of the *Honeywell vs. Sperry Rand* records in addition to the papers of Earl Richard Larson, the District Court judge. At Dartmouth College, New Hampshire are the George Robert Stibitz Papers, a former employee of the Bell Telephone Laboratories and important scientist worked on the development of computers, which contain some material relating to the *Sperry Rand vs. Bell Telephone* case. In addition to this primary source material Nancy Stern's

**Electrical Engineering. ENIAC Papers
UPD 8.10
Inventory**

From ENIAC to UNIVAC: An Appraisal of the Eckert-Mauchly Computers (Bedford, Massachusetts: Digital Press, 1981) has a good summary of the history of the ENIAC and Eckert's and Mauchly's electronic computers and of the key issues that arose in the *Honeywell vs. Sperry Rand* case.

ARRANGEMENT

The collection contains two series: *Sperry Rand Corporation, John P. Eckert, Jr., and John W. Mauchly vs. Bell Telephone, Incorporated*; and two, *Honeywell, Incorporated vs. Sperry Rand Corporation and Illinois Scientific Developments, Incorporated*. Both series are arranged alphabetically by type of court document.

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**ENIAC Patent Trial
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INVENTORY

Honeywell, Inc. vs. Sperry Rand Corp., et al.
Guide to Transcript

Box 1	FF 1	Chronological Index to Testimony (Plaintiff)
	FF 2	Alphabetical Index to Testimony (Plaintiff)
	FF 3	Chronological Index to Testimony (Defendants)
	FF 4	Alphabetical Index to Testimony (Defendants)
	FF 5	Transcript Indices
		Plaintiff's List of Trial Exhibits
	FF 6	Nos. 1—1125
	FF 7	Nos. 1126—2132
	FF 8	Nos. 2133—3170
	FF 9	Nos. 3171—3998
	FF 10	Nos. 4002—4987
	FF 11	Nos. 4988—6244
	FF 12	Nos. 6425—8156
	FF 13	Nos. 8157—10,013
	FF 14	Nos. 10,014—10,999
	FF 15	Nos. 11,002—13,126

Honeywell, Inc. vs. Sperry Rand Corp., et al. (cont.)

Plaintiff's List of Trial Exhibits

Box 1	FF 16	Nos. 13,127—15,383
	FF 17	Nos. 15,387—18,147
	FF 18	Nos. 18,149—19,997
	FF 19	Nos. 20,001—22,008
	FF 20	Nos. 22,009—24,902.001
	FF 21	Nos. 24,903—Gambrell No. 34
	FF 22	Nos. Gambrell No. 39—Wyman No. 11
	FF 23	Plaintiff's Deposition Lists
Box 2	FF 1	Plaintiff's Brief, Table of Contents
	FF 2	Plaintiff's Final Brief on the Merits, pp. 1—124
	FF 3	Plaintiff's Final Brief on the Merits, pp. 125—249
	FF 4	Plaintiff's Final Brief on the Merits, pp. 250—374
	FF 5	Plaintiff's Final Brief on the Merits, pp. 375—509
		Plaintiff's Trial Brief
	FF 6	Vol. II
	FF 7	Vol. III, pp. 1—154
	FF 8	Vol. III, §412—§448
	FF 9	Vol. IV, pp. 1—124
	FF 10	Vol. IV, pp. 125—174
	FF 11	Statements of Legal Contentions to Vols. II—IV
	FF 12	Vol. V, pp. 1—74
	FF 13	Vol. V, pp. 75—149
	FF 14	Vol. V, pp. 150—237

Honeywell, Inc. vs. Sperry Rand Corp., et al. (cont.)
Plaintiff's Trial Brief

Box 2	FF 15	Vol. V, pp. 238—300
	FF 16	Statements of Legal Contentions to Vol. V
	FF 17	Vol. V, part 2, Appendix A
	FF 18	Vol. V, Appendix B
Box 14	FF 5	Plaintiff's Answer to Defendants', pp. 1—150
	FF 6	Plaintiff's Answer to Defendants', pp. 151—222
Box 3	FF 11	Defendant's Pre—Trial Brief with Reply, Sections A—F
	FF 12	Defendant's Pre—Trial Brief with Reply, Sections G—K
	FF 13	Defendant's Pre—Trial Brief with Reply, Sections L—W
	FF 14	Defendant's Pre—Trial Brief with Reply, Statements of Law
	FF 15	Defendant's Brief in Support of Motion under Rule 41(b)
Box 1	FF 24	Defendant's List of Trial Exhibits
Box 3	FF 16	Defendant's Correspondent Index, 1934—1948
	FF 17	Defendant's Correspondent Index, 1948—1955
	FF 18	Defendant's Correspondent Index, 1955—1971
Box 2	FF 19	Transcript Index Cards, Exhibit Nos. 1402—3683
	FF 20	Transcript Index Cards, Exhibit Nos. 3683—4761
	FF 21	Transcript Index Cards, Exhibit Nos. 4762—6706.1
Box 15	FF 21	Pretrial Conference
		Digest of Testimony
Box 2	FF 22	pp. 3—2123
Box 3	FF 1	pp. 2124—2914
	FF 2	pp. 2915—4137

Honeywell, Inc. vs. Sperry Rand Corp., et al. (cont.)

Digest of Testimony

Box 3	FF 3	pp. 4140—4320
	FF 4	pp. 4322—5361
	FF 5	pp. 5364—6084

Sperry Rand Corp. vs. Bell Telephone

	FF 6	Summary of Principal Events
	FF 7	Chronology, pp. 1—124
	FF 8	Chronology, pp. 125—249
	FF 9	Chronology, pp. 250—355
	FF 10	Condensed Chronology
	FF 19	Miscellaneous [1]
	FF 20	Miscellaneous [2]
	FF 21	Miscellaneous [3]

Trial Transcript

	FF 22	pp. 1—99, Vol. 1
	FF 23	pp. 100—201, Vol. 2
Box 4	FF 1	pp. 262—455, Vol. 3
	FF 2	pp. 456—623, Vol. 4
	FF 3	pp. 624—771, Vol. 5
	FF 4	pp. 772—912, Vol. 6
	FF 5	pp. 913—1080, Vol. 7
	FF 6	pp. 1081—1245, Vol. 8
	FF 7	pp. 1246—1399, Vol. 9
	FF 8	pp. 1400—1501, Vol. 10

Honeywell, Inc. vs. Sperry Rand Corp., et al. (cont.)
Trial Transcript

Box 4	FF 9	pp. 1502—1715, Vol. 11
	FF 10	pp. 1716—1862A, Vol. 12
	FF 11	pp. 1863—2019A, Vol. 13
	FF 12	pp. 2020—2107, Vol. 14
	FF 13	pp. 2108—2259, Vol. 15
	FF 14	pp. 2260—2403, Vol. 16
	FF 15	pp. 2404—2586, Vol. 17
	FF 16	pp. 2587—2751, Vol. 18
Box 5	FF 1	pp. 2752—2914, Vol. 19
	FF 2	pp. 2915—3116, Vol. 20
	FF 3	pp. 3117—3276, Vol. 21
	FF 4	pp. 3277—3430, Vol. 22
	FF 5	pp. 3431—3609, Vol. 23
	FF 6	pp. 3610—3836, Vol. 24
	FF 7	pp. 3837—3983, Vol. 25
	FF 8	pp. 3984—4138, Vol. 26
	FF 9	pp. 4139—4320, Vol. 27
	FF 10	pp. 4321—4469, Vol. 28
	FF 11	pp. 4470—4627, Vol. 29
	FF 12	pp. 4628—4778, Vol. 30
	FF 13	pp. 4779—4948, Vol. 31
	FF 14	pp. 4949—5109, Vol. 32
	FF 15	pp. 5110—5277, Vol. 33

Honeywell, Inc. vs. Sperry Rand Corp., et al. (cont.)
Trial Transcript

Box 6	FF 1	pp. 5278—5468, Vol. 34
	FF 2	pp. 5469—5625, Vol. 35
	FF 3	pp. 5626—5774, Vol. 36
	FF 4	pp. 5775—5931, Vol. 37
	FF 5	pp. 5932—6084, Vol. 38
	FF 6	pp. 6085—6235, Vol. 39
	FF 7	pp. 6236—6377, Vol. 40
	FF 8	pp. 6378—6543, Vol. 41
	FF 9	pp. 6544—6684, Vol. 42
	FF 10	pp. 6685—6829, Vol. 43
	FF 11	pp. 6830—6982, Vol. 44
	FF 12	pp. 6983—7166, Vol. 45
	FF 13	pp. 7167—7336, Vol. 46
	FF 14	pp. 7337—7487, Vol. 47
	FF 15	pp. 7488—7637, Vol. 48
	FF 16	pp. 7639—7784, Vol. 49
Box 7	FF 1	pp. 7785—7913A, Vol. 50
	FF 2	pp. 7914—8081, Vol. 51
	FF 3	pp. 8082—8222A, Vol. 52
	FF 4	pp. 8223—8377, Vol. 53
	FF 5	pp. 8378—8527, Vol. 54
	FF 6	pp. 8528—8704, Vol. 55
	FF 7	pp. 8705—8850, Vol. 56

Honeywell, Inc. vs. Sperry Rand Corp., et al. (cont.)
Trial Transcript

Box 7	FF 8	pp. 8851—8994, Vol. 57
	FF 9	pp. 8995—9144, Vol. 58
	FF 10	pp. 9145—9290, Vol. 59
	FF 11	pp. 9291—9449, Vol. 60
	FF 12	pp. 9450—9605, Vol. 61
	FF 13	pp. 9606—9776A, Vol. 62
	FF 14	pp. 9777—9946, Vol. 63
	FF 15	pp. 9947—10,113, Vol. 64
	FF 16	pp. 10,114—10,263, Vol. 65
	FF 17	pp. 10,264—10,425, Vol. 66
Box 8	FF 1	pp. 10,426—10,440, Vol. 67
	FF 2	pp. 10,441—10,588, Vol. 68
	FF 3	pp. 10,589—10,728, Vol. 69
	FF 4	pp. 10,729—10,863A, Vol. 70
	FF 5	pp. 10,864—11,028, Vol. 71
	FF 6	pp. 11,029—11,175A, Vol. 72
	FF 7	pp. 11,176—11,360, Vol. 73
	FF 8	pp. 11,361—11,516, Vol. 74
	FF 9	pp. 11,517—11,642, Vol. 75
	FF 10	pp. 11,643—11,720, Vol. 76
	FF 11	pp. 11,721—11,866, Vol. 77
	FF 12	pp. 11,867—12,016, Vol. 78
	FF 13	pp. 12,017—12,169, Vol. 79

Honeywell, Inc. vs. Sperry Rand Corp., et al. (cont.)
Trial Transcript

Box 8	FF 14	pp. 12,170—12,332A, Vol. 80
	FF 15	pp. 12,333—12,367, Vol. 81
	FF 16	pp. 12,368—12,524, Vol. 82
	FF 17	pp. 12,525—12,710, Vol. 83
	FF 18	pp. 12,711—12,846, Vol. 84
	FF 19	pp. 12,847—12,979A, Vol. 85
Box 9	FF 1	pp. 12,980—13,129, Vol. 86
	FF 2	pp. 13,130—13,272A, Vol. 87
	FF 3	pp. 13,273—13,443, Vol. 88
	FF 4	pp. 13,444—13,591, Vol. 89
	FF 5	pp. 13,592—13,752, Vol. 90
	FF 6	pp. 13,753—13,853, Vol. 91
	FF 7	pp. 13,853—13,988, Vol. 92
	FF 8	pp. 13,989—14,146A, Vol. 93
	FF 9	pp. 14,146—14,290, Vol. 94
	FF 10	pp. 14,291—14,434A, Vol. 95
	FF 11	pp. 14,435—14,585, Vol. 96
	FF 12	pp. 14,586—14,748, Vol. 97
	FF 13	pp. 14,749—14,903, Vol. 98
	FF 14	pp. 14,904—15,056, Vol. 99
	FF 15	pp. 15,057—15,214A, Vol. 100
	FF 16	pp. 15,215—15,346, Vol. 101
	FF 17	pp. 15,347—15,492, Vol. 102

Honeywell, Inc. vs. Sperry Rand Corp., et al. (cont.)
Trial Transcript

Box 9	FF 18	pp. 15,493—15,561, Vol. 103
Box 10	FF 1	pp. 15,562—15,671, Vol. 104
	FF 2	pp. 15,672—15,817, Vol. 105
	FF 3	pp. 15,818—15,940, Vol. 106
	FF 4	pp. 15,941—16,084, Vol. 107
	FF 5	pp. 16,084—16,233, Vol. 108
	FF 6	pp. 16,234—16,429, Vol. 109
	FF 7	pp. 16,430—16,654, Vol. 110
	FF 8	pp. 16,555—16,727, Vol. 111
	FF 9	pp. 16,728—16,885, Vol. 112
	FF 10	pp. 16,886—17,044, Vol. 113
	FF 11	pp. 17,045—17,192, Vol. 114
	FF 12	pp. 17,193—17,340, Vol. 115
	FF 13	pp. 17,341—17,479, Vol. 116
	FF 14	pp. 17,480—17,638, Vol. 117
	FF 15	pp. 17,639—17,792, Vol. 118
	FF 16	pp. 17,793—17,948, Vol. 119
	FF 17	pp. 17,949—18,098, Vol. 120
Box 11	FF 1	pp. 18,099—18,291A, Vol. 121
	FF 2	pp. 18,292—18,454A, Vol. 122
	FF 3	pp. 18,455—18,639, Vol. 123
	FF 4	pp. 18,640—18,811, Vol. 124
	FF 5	pp. 18,812—18,992, Vol. 125

Honeywell, Inc. vs. Sperry Rand Corp., et al. (cont.)
Trial Transcript

Box 11	FF 6	pp. 18,993—19,164A, Vol. 126
	FF 7	pp. 19,165—19,314, Vol. 127
	FF 8	pp. 19,315—19,467, Vol. 128
	FF 9	pp. 19,468—19,613, Vol. 129
	FF 10	pp. 19,614—19,739, Vol. 130
	FF 11	pp. 19,740—19,869, Vol. 131
	FF 12	pp. 19,870—20,024, Vol. 132
	FF 13	pp. 20,025—20,182, Vol. 133
	FF 14	pp. 20,183—20,359, Vol. 134
	FF 15	pp. 20,360—20,534, Vol. 135
	FF 16	pp. 20,535—20,626, Vol. 136
	FF 17	pp. 20,627—20,673, Vol. 137

Depositions

Box 12	FF 1	Roland A. Anderson
	FF 2	John V. Atanasoff, Vol. 2
	FF 3	John V. Atanasoff, Vol. 3
	FF 4	John V. Atanasoff, Vol. 4
	FF 5	John V. Atanasoff, Vol. 5
	FF 6	John V. Atanasoff, Vol. 7
	FF 7	John V. Atanasoff, Vol. 8
	FF 8	John V. Atanasoff, Vol. 9
	FF 9	Laura Atanasoff
	FF 10	Wallace E. Barron

Honeywell, Inc. vs. Sperry Rand Corp., et al. (cont.)
Depositions

Box 12	FF 11	Jean J. Bartik
	FF 12	H. Jack Blackwell
	FF 13	Bruce E. Bremberg
	FF 14	Robert E. Buchanan
	FF 15	Charles G. Call, Vol. 1, pp. 1—150
	FF 16	Charles G. Call, Vol. 1, pp. 151 to end
	FF 17	Charles G. Call, Vol. 2 to p. 392
	FF 18	Charles G. Call, Vol. 2, pp. 393 to end
	FF 19	Percy H. Carr
	FF 20	Joseph H. Church
	FF 21	William Earl Cleaver
	FF 22	Mary A. Crozer
	FF 23	Albert S. Davis
	FF 24	L. S. Dedrick, Vol. 1
	FF 25	L. S. Dedrick, Vol. 2
	FF 26	Joseph R. Desch, pp. 1—171
Box 13	FF 1	Joseph R. Desch, pp. 172—325
	FF 2	Joseph R. Desch, pp. 325 to end
	FF 3	Arthur H. Dickinson
	FF 4	Robert K. Dombrowski
	FF 5	John P. Dority, pp. 1—150
	FF 6	John P. Dority, pp. 151 to end
	FF 7	Stannard Dunn

Honeywell, Inc. vs. Sperry Rand Corp., et al. (cont.)
Depositions

Box 13	FF 8	Charles C. English
	FF 9	George V. Eltgroth
	FF 10	A. J. Etienne
	FF 11	Paul N. Gillon
	FF 12	Herman H. Goldstine, pp. 1—150
	FF 13	Herman H. Goldstine, pp. 151—314
	FF 14	Herman H. Goldstine, pp. 315—465
	FF 15	Herman H. Goldstine, pp. 466—622
	FF 16	Herman H. Goldstine, pp. 623—775
	FF 17	Herman H. Goldstine, pp. 776—925
	FF 18	Herman H. Goldstine, pp. 926 to end
	FF 19	Daniel L. Griffen
	FF 20	William D. Hall, pp. 1—170, Vol. 1
Box 14	FF 1	William D. Hall, pp. 171—219, Vol. 2
	FF 2	William D. Hall, Vol. 3
	FF 3	Mrs. Douglas Hartree
	FF 4	Henry Heyman
	FF 7	Frances D. Holberton
	FF 7	John V. Holberton
	FF 8	Gilchrist Hurst
	FF 9	Louis Kline (for NCR Company)
	FF 10	Marshall A. Lerner
	FF 11	Max L. Libman, Vol 1

Honeywell, Inc. vs. Sperry Rand Corp., et al. (cont.)

Depositions

Box 14	FF 12	Max L. Libman, Vol 2
	FF 13	Max L. Libman, Vol 3
	FF 14	Max L. Libman, Vol 4
	FF 15	E. Jerry Light
	FF 16	Herbert F. Markel, Vol. 1
	FF 17	Herbert F. Markel, Vol. 2
	FF 18	John C. McPherson
	FF 19	John W. Mauchly, Vol. 1
	FF 20	John W. Mauchly, Vol. 2
	FF 21	John W. Mauchly, Vol. 3
	FF 22	John W. Mauchly, Vol. 4
	FF 23	John W. Mauchly, Vol. 5
	FF 24	John W. Mauchly, Vol. 6
	FF 25	John W. Mauchly, Vol. 7
	FF 26	John W. Mauchly, Vol. 8
Box 15	FF 1	John W. Mauchly, Vol. 9
	FF 2	John W. Mauchly, Vol. 10
	FF 3	John W. Mauchly, Vol. 11
	FF 4	John W. Mauchly, Vol. 12
	FF 5	Kathleen Rita Mauchly, pp. 1—150
	FF 6	Kathleen Rita Mauchly, pp. 151—300
	FF 7	Kathleen Rita Mauchly, pp. 301 to end
	FF 8	Francis E. McGee, pp. 1—150

Honeywell, Inc. vs. Sperry Rand Corp., et al. (cont.)

Depositions

Box 15	FF 9	Francis E. McGee, pp. 151 to end
	FF 10	William J. McHugh
	FF 11	Marlyn W. Meltzer
	FF 12	Minot C. Morgan, Jr.
	FF 13	Robert E. Mumma
	FF 14	Glenn Murphy
	FF 15	Donald S. Murray, pp. 1—150
	FF 16	Donald S. Murray, pp. 150 to end
	FF 17	Burt T. Oakley
	FF 18	Charles Ondrick
	FF 19	Frederick W. Padden
	FF 20	Byron E. Phelps
	FF 22	Jan A. Rajchman, pp. 1—117
	FF 23	Jan A. Rajchman, pp. 118 to end
	FF 24	Francis Reichelderfer
	FF 25	R. K. Richards
	FF 26	Robert H. Richings
	FF 27	S. Joseph Rotondi
	FF 28	Edward A. Ruestow
	FF 29	Albert Russinoff
	FF 30	Charles H. Schmitter
	FF 31	George A. Smith
Box 16	FF 1	Homer W. Spence

Honeywell, Inc. vs. Sperry Rand Corp., et al. (cont.)

Depositions

Box 16	FF 2	Leslie E. Simon
	FF 3	Ruth L. Teitelbaum
	FF 4	Edward Teller
	FF 5	Maurice J. Trainer
	FF 6	Fred van Sant, Jr., pp. 1—150
	FF 7	Fred van Sant, Jr., pp. 151 to end
	FF 8	Warren Weaver
	FF 9	John Wheeler
	FF 10	Vladimir K. Zworykin

Plaintiff's Trial Exhibits

	FF 11	No. 1, pp. 1—225
	FF 12	No. 1, pp. 226—375
	FF 13	No. 1, pp. 376—496
	FF 14	Nos. 2—14
	FF 15	Nos. 15—20
	FF 16	Nos. 21—33
	FF 17	Nos. 34—36
	FF 18	Nos. 37—43
	FF 19	Nos. 44—51
	FF 20	No. 52
	FF 21	Nos. 53—87
Box 17	FF 1	Nos. 101—122
	FF 2	Nos. 123—124

Honeywell, Inc. vs. Sperry Rand Corp., et al. (cont.)
Plaintiff's Trial Exhibits

Box 17	FF 3	Nos. 125—142
	FF 4	Nos. 143—146.6, Nos. 144 & 145 missing
	FF 5	No. 147-150
	FF 6	No. 151
	FF 7	No. 152
	FF 8	No. 153
	FF 9	Nos. 154—165.5
	FF 10	Nos. 166—171
	FF 11	Nos. 172—198.5
	FF 12	Nos. 199—211
	FF 13	No. 212
	FF 14	Nos. 213—214.5
	FF 15	Nos. 214.6—217
	FF 16	Nos. 219—265
	FF 17	No. 266 to p. 1,150
Box 18	FF 1	No. 266 to end
	FF 2	Nos. 267—299
	FF 3	No. 300
	FF 4	Nos. 301—362
	FF 5	Nos. 363—389
	FF 6	Nos. 390—480
	FF 7	Nos. 481—486
	FF 8	Nos. 487—490

Honeywell, Inc. vs. Sperry Rand Corp., et al. (cont.)
Plaintiff's Trial Exhibits

Box 18	FF 9	Nos. 491—499
	FF 10	Nos. 500—524.5
	FF 11	Nos. 525—532
	FF 12	Nos. 533—576
	FF 13	Nos. 576.5—610
	FF 14	No. 610.1
	FF 15	Nos. 611—615
	FF 16	No. 616
	FF 17	Nos. 617—647
Box 19	FF 1	Nos. 648—668
	FF 2	No folder 2
	FF 3	Nos. 669—733
	FF 4	Nos. 734—763.5
	FF 5	Nos. 764—799
	FF 6	Nos. 800—849
	FF 7	Nos. 850—879
	FF 8	Nos. 880—901
	FF 9	Nos. 902—927
	FF 10	Nos. 929—953
	FF 11	Nos. 954—965
	FF 12	No. 966
	FF 13	No. 967
	FF 14	Nos. 968—970

Honeywell, Inc. vs. Sperry Rand Corp., et al. (cont.)
Plaintiff's Trial Exhibits

Box 19	FF 15	No. 971, part 1
	FF 16	No. 971, part 2
	FF 17	No. 972
Box 20	FF 1	No. 973
	FF 2	No. 974—979
	FF 3	No. 980, part 1
	FF 4	No. 980, part 2
	FF 5	Nos. 980.1—1035
	FF 6	Nos. 1036—1054
	FF 7	Nos. 1055—1056
	FF 8	Nos. 1057—1155
	FF 9	Nos. 1156—1218
	FF 10	Nos. 1219—1247
	FF 11	No. 1248, pp. 1—150
	FF 12	No. 1248, pp. 151—300
	FF 13	Nos. 1248, pp. 301 to end,—1249
	FF 14	Nos. 1250—1288
	FF 15	Nos. 1289—1292.1
	FF 16	Nos. 1293—1303
	FF 17	Nos. 1304—1332
	FF 18	Nos. 1333—1336
Box 21	FF 1	No. 1337
	FF 2	No. 1338

Honeywell, Inc. vs. Sperry Rand Corp., et al. (cont.)
Plaintiff's Trial Exhibits

Box 21	FF 3	Nos. 1339—1361
	FF 4	No. 1362, part 1
	FF 5	No. 1362, part 2
	FF 6	Nos. 1363—1386
	FF 7	Nos. 1387—1394
	FF 8	No. 1395
	FF 9	Nos. 1396—1397
	FF 10	No. 1398
	FF 11	Nos. 1399—1404
	FF 12	Nos. 1405—1437
	FF 13	Nos. 1439—1449
	FF 14	Nos. 1451—1501
	FF 15	Nos. 1502—1503
	FF 16	Nos. 1504—1530
	FF 17	Nos. 1531—1555
Box 22	FF 1	No. 1556, part 1
	FF 2	No. 1556, part 2
	FF 3	No. 1557
	FF 4	Nos. 1558—1583
	FF 5	No. 1584
	FF 6	No. 1585
	FF 7	Nos. 1586—1606
	FF 8	No. 1607

Honeywell, Inc. vs. Sperry Rand Corp., et al. (cont.)
Plaintiff's Trial Exhibits

Box 22	FF 9	Nos. 1608—1657
	FF 10	Nos. 1658—1677
	FF 11	No. 1678
	FF 12	Nos. 1679—1680, part 1
	FF 13	No. 1680, part 2
	FF 14	Nos. 1681—1710
	FF 15	No. 1711
	FF 16	Nos. 1712—1764
	FF 17	Nos. 1765—1805
	FF 18	Nos. 1806—1822
Box 23	FF 1	No. 1823
	FF 2	Nos. 1824—1826
	FF 3	No. 1827, part 1
	FF 4	No. 1827, part 2
	FF 5	No. 1842
	FF 6	Nos. 1843—1845
	FF 7	No. 1846
	FF 8	Nos. 1847—1875
	FF 9	Nos. 1876—1913
	FF 10	Nos. 1914—2000
	FF 11	Nos. 2001—2050
	FF 12	Nos. 2051—2099
	FF 13	Nos. 2100—2157

Honeywell, Inc. vs. Sperry Rand Corp., et al. (cont.)
Plaintiff's Trial Exhibits

Box 23	FF 14	No. 2158, part 1
	FF 15	No. 2158, part 2
	FF 16	Nos. 2159—2199
	FF 17	Nos. 2200—2204
	FF 18	No. 2205
Box 24	FF 1	Nos. 2206—2254
	FF 2	Nos. 2255—2299
	FF 3	Nos. 2300—2350
	FF 4	Nos. 2351—2387
	FF 5	No. 2388
	FF 6	Nos. 2389—2439
	FF 7	Nos. 2440—2464
	FF 8	No. 2466
	FF 9	No. 2466.1
	FF 10	Nos. 2467—2499
	FF 11	Nos. 2500—2550
	FF 12	Nos. 2551—2600
	FF 13	Nos. 2601—2630
	FF 14	Nos. 2631—2660
	FF 15	Nos. 2661—2700
	FF 16	Nos. 2701—2749
	FF 17	Nos. 2750—2759
	FF 18	Nos. 2760—2761

ENIAC Patent Trial Collection
UPD 8.10
Inventory

Honeywell, Inc. vs. Sperry Rand Corp., et al. (cont.)
Plaintiff's Trial Exhibits

Box 24	FF 19	No. 2762
	FF 20	Nos. 2763-4
Box 25	FF 1	No. 2765
	FF 2	No. 2766
	FF 3	No. 2767
	FF 4	Nos. 2768—2799
	FF 5	Nos. 2800—2835
	FF 6	Nos. 2836—2879
	FF 7	No. 2880
	FF 8	Nos. 2881—2886
	FF 9	No. 2887, part 1
	FF 10	No. 2887, part 2
	FF 11	No. 2888—2950
	FF 12	Nos. 2951—3050
	FF 13	Nos. 3051—3131
	FF 14	Nos. 3132—3199
	FF 15	Nos. 3200—3250
	FF 16	Nos. 3251—3275
Box 26	FF 1	Nos. 3276—3326
	FF 2	No. 3328
	FF 3	No. 3329
	FF 4	No. 3329.5
	FF 5	Nos. 3330—3391

Honeywell, Inc. vs. Sperry Rand Corp., et al. (cont.)
Plaintiff's Trial Exhibits

Box 26	FF 6	No. 3392
	FF 7	Nos. 3393—3425
	FF 8	Nos. 3426—3470
	FF 9	Nos. 3471—3499
	FF 10	Nos. 3500—3539
	FF 11	No. 3540
	FF 12	No. 3540.5
	FF 13	Nos. 3541—3551
	FF 14	Nos. 3552—3571
	FF 15	No. 3572, part 1
	FF 16	No. 3572, part 2
	FF 17	Nos. 3573—3599
	FF 18	Nos. 3600—3629
	FF 19	No. 3630
	FF 20	Nos. 3631—3662.5
	FF 21	No. 3663
Box 27	FF 1	Nos. 3664—3750
	FF 2	Nos. 3751—3777
	FF 3	No. 3778
	FF 4	No. 3779
	FF 5	Nos. 3780—3781
	FF 6	Nos. 3782—3787.2
	FF 7	Nos. 3788—3848.1

Honeywell, Inc. vs. Sperry Rand Corp., et al. (cont.)
Plaintiff's Trial Exhibits

Box 27	FF 8	No. 3849
	FF 9	Nos. 3850—3859
	FF 10	No. 3860
	FF 11	Nos. 3861—3869
	FF 12	No. 3868.5
	FF 13	Nos. 3870—3871
	FF 14	No. 3871.5
	FF 15	No. 3871.6
	FF 16	No. 3871.1, part 1
	FF 17	No. 3871.1, part 2
	FF 18	No. 3871.8, part 1
	FF 19	No. 3871.8, part 2
	FF 20	Nos. 3872—3877
Box 28	FF 1	No. 3878
	FF 2	Nos. 3879—3899
	FF 3	No. 3902.2
	FF 4	Nos. 3900—3902, 3903—3958
	FF 5	Nos. 3959—3999
	FF 6	Nos. 4000—4069
	FF 7	Nos. 4070—4148.1
	FF 8	Nos. 4149—4199
	FF 9	Nos. 4200—4251
	FF 10	No. 4252

Honeywell, Inc. vs. Sperry Rand Corp., et al. (cont.)
Plaintiff's Trial Exhibits

Box 28	FF 11	Nos. 4253—4297
	FF 12	No. 4299
	FF 13	Nos. 4300—4335
	FF 14	Nos. 4336—4399
	FF 15	Nos. 4400—4448.1
	FF 16	Nos. 4448.2—4495
Box 29	FF 1	Nos. 4501—4525
	FF 2	No. 4526, part 1
	FF 3	No. 4526, part 2
	FF 4	No. 4527, part 1
	FF 5	No. 4527, part 2
	FF 6	No. 4528
	FF 7	No. 4528.5
	FF 8	Nos. 4529—4533
	FF 9	Nos. 4534—4540
	FF 10	Nos. 4541—4599
	FF 11	Nos. 4600—4686
	FF 12	Nos. 4687—4695
	FF 13	No. 4695
	FF 14	No. 4696.5, part 1
	FF 15	No. 4696.5, part 2
	FF 16	Nos. 4696—4715
Box 30	FF 1	Nos. 4716—4759

Honeywell, Inc. vs. Sperry Rand Corp., et al. (cont.)
Plaintiff's Trial Exhibits

Box 30	FF 2	Nos. 4760—4794
	FF 3	Nos. 4795—4845
	FF 4	Nos. 4846—4879
	FF 5	Nos. 4881—4909
	FF 6	Nos. 4910—4947
	FF 7	Nos. 4947.5—4976
	FF 8	Nos. 4977—4995
	FF 9	Nos. 4996—5050
	FF 10	Nos. 5051—5125
	FF 11	Nos. 5126—5184
	FF 12	Nos. 5185—5249
	FF 13	Nos. 5250—5352
	FF 14	Nos. 5252—5461
Box 31	FF 1	Nos. 5462—5499
	FF 2	Nos. 5501—5524
	FF 3	Nos. 5525—5530
	FF 4	No. 5531
	FF 5	Nos. 5532—5563
	FF 6	Nos. 5564—5600
	FF 7	Nos. 5601—5663
	FF 8	Nos. 5664—5733
	FF 9	No. 5734, part 1
	FF 10	No. 5734, part 2

ENIAC Patent Trial Collection
UPD 8.10
Inventory

Honeywell, Inc. vs. Sperry Rand Corp., et al. (cont.)
Plaintiff's Trial Exhibits

Box 31	FF 11	Nos. 5735—5777
	FF 12	Nos. 5778—5822
	FF 13	Nos. 5823—5862
	FF 14	Nos. 5363.5—5905
	FF 15	Nos. 5906—5958.5
Box 32	FF 1	Nos. 5959—5992
	FF 2	Nos. 5993—6025
	FF 3	Nos. 6026—6055
	FF 4	Nos. 6056—6078
	FF 5	No. 6079.5
	FF 6	Nos. 6080—6086
	FF 7	No. 6087
	FF 8	Nos. 6088—6128
	FF 9	No. 6129.5, part 1
	FF 10	No. 6129.5, part 2
	FF 11	No. 6129.5, part 3
	FF 12	No. 6129.5, part 4
	FF 13	No. 6129.5, part 5
	FF 14	Nos. 6130—6158
	FF 15	Nos. 6159—6171
	FF 16	Nos. 6172—6176
	FF 17	No. 6177
Box 33	FF 1	Nos. 6178—6179.5

Honeywell, Inc. vs. Sperry Rand Corp., et al. (cont.)
Plaintiff's Trial Exhibits

Box 33	FF 2	Nos. 6180—6237
	FF 3	Nos. 6238-6261
	FF 4	Nos. 6262—6279
	FF 5	No. 6280
	FF 6	Nos. 6281—6321
	FF 7	Nos. 6322.5—6360
	FF 8	Nos. 6361—6394
	FF 9	No. 6395
	FF 10	Nos. 6396—6403
	FF 11	No. 6404
	FF 12	Nos. 6406—6471
	FF 13	No. 6472
	FF 14	Nos. 6473—6497
	FF 15	No. 6498
	FF 16	Nos. 6500—6507
	FF 17	No. 6508.5
	FF 18	Nos. 6509—6550
Box 34	FF 1	Nos. 6551—6622
	FF 2	Nos. 6623—6643
	FF 3	No. 6643.5
	FF 4	Nos. 6645—6691
	FF 5	Nos. 6692—6730
	FF 6	Nos. 6731—6754

Honeywell, Inc. vs. Sperry Rand Corp., et al. (cont.)
Plaintiff's Trial Exhibits

Box 34	FF 7	No. 6756.5, part 1
	FF 8	No. 6756.5, part 2
	FF 9	No. 6757
	FF 10	Nos. 6759—6806
	FF 11	Nos. 6807—6875
	FF 12	Nos. 6876—6935
	FF 13	Nos. 6936—7030
	FF 14	Nos. 7031—7100
	FF 15	Nos. 7101—7199
	FF 16	Nos. 7201—7263
Box 35	FF 1	Nos. 7264.5—7291
	FF 2	Nos. 7292—7300
	FF 3	Nos. 7301—7349
	FF 4	Nos. 7350—7385
	FF 5	Nos. 7388—7450
	FF 6	Nos. 7451—7495
	FF 7	No. 7496
	FF 8	Nos. 7497—7499
	FF 9	Nos. 7500—7521
	FF 10	Nos. 7522—7550
	FF 11	Nos. 7551—7591
	FF 12	Nos. 7592—7614
	FF 13	Nos. 7615—7640

Honeywell, Inc. vs. Sperry Rand Corp., et al. (cont.)
Plaintiff's Trial Exhibits

Box 35	FF 14	No. 7641, part 1
	FF 15	No. 7641, part 2
	FF 16	Nos. 7641—5—7699
	FF 17	Nos. 7700—7702.3
Box 36	FF 1	No. 7703
	FF 2	Nos. 7703.2—7708
	FF 3	Nos. 7707—7717.4
	FF 4	Nos. 7718—7729
	FF 5	Nos. 7730—7740
	FF 6	Nos. 7741—7744, 7747—7769
	FF 7	No. 7745
	FF 8	Nos. 7770—7800
	FF 9	Nos. 7801—7870
	FF 10	Nos. 7871—7927
	FF 11	Nos. 7928—7932.1
	FF 12	Nos. 7932.2—7977
	FF 13	Nos. 7978—7988
	FF 14	Nos. 7988.5—7995.5
	FF 15	Nos. 7995.6—8023.5
	FF 16	Nos. 8024—8052
Box 37	FF 1	No. 8052.3
	FF 2	Nos. 8053—8066
	FF 3	No. 8067

Honeywell, Inc. vs. Sperry Rand Corp., et al. (cont.)
Plaintiff's Trial Exhibits

Box 37	FF 4	No. 8068
	FF 5	Nos. 8069—8088
	FF 6	Nos. 8089—8109.5
	FF 7	Nos. 8109.5—8139.1
	FF 8	Nos. 8139.5—8151
	FF 9	Nos. 8152—8154.1
	FF 10	No. 8154.5, part 1
	FF 11	No. 8154.5, part 2
	FF 12	No. 8156
	FF 13	No. 8180
	FF 14	Nos. 8181—8198
	FF 15	Nos. 8200—8206
	FF 16	Nos. 8207—8217
	FF 17	Nos. 8218—8236.7
	FF 18	No. 8237
Box 38	FF 1	Nos. 8238—8295
	FF 2	Nos. 8296—8367
	FF 3	Nos. 8368—8429
	FF 4	Nos. 8430—8459
	FF 5	Nos. 8460—8467
	FF 6	Nos. 8468—8473
	FF 7	No. 8474
	FF 8	Nos. 8475—8492.5

Honeywell, Inc. vs. Sperry Rand Corp., et al. (cont.)
Plaintiff's Trial Exhibits

Box 38	FF 9	No. 8492
	FF 10	Nos. 8493—8506
	FF 11	Nos. 8508—8575
	FF 12	Nos. 8576—8614.5
	FF 13	Nos. 8615—8631
	FF 14	Nos. 8632—8669
	FF 15	No. 8670
	FF 16	Nos. 8671—8678
	FF 17	Nos. 8679—8688
	FF 18	No. 8689
Box 39	FF 1	Nos. 8690—8747
	FF 2	Nos. 8751.5—8828
	FF 3	Nos. 8829—8869
	FF 4	Nos. 8870—8918
	FF 5	Nos. 8919—8984
	FF 6	Nos. 8985—9083
	FF 7	Nos. 9084—9143
	FF 8	Nos. 9144—9193
	FF 9	Nos. 9194—9298
	FF 10	Nos. 9304—9338
	FF 11	No. 9339
	FF 12	Nos. 9340—9341
	FF 13	No. 9342

Honeywell, Inc. vs. Sperry Rand Corp., et al. (cont.)
Plaintiff's Trial Exhibits

Box 39	FF 14	Nos. 9343—9350
	FF 15	No. 9351
	FF 16	Nos. 9352—9407
	FF 17	Nos. 9408—9432
	FF 18	Nos. 9432—9455
Box 40	FF 1	Nos. 9456—9599
	FF 2	Nos. 9600—9705
	FF 3	Nos. 9706—9836
	FF 4	Nos. 9837—9922
	FF 5	Nos. 9923—10,010
	FF 6	Nos. 10,011—10,043
	FF 6	Nos. 10,046.1-10,138.2
	FF 7	Nos. 10,139—10,172
	FF 8	Nos. 10,176.1—10,261
	FF 9	Nos. 10,261.1—10,307
	FF 10	Nos. 10,308—10,381.1
	FF 11	Nos. 10,381.2—10,507
	FF 12	Nos. 10,508—10,596
	FF 13	Nos. 10,608—10,684
	FF 14	Nos. 10,693—10,700
Box 41	FF 1	Nos. 10,701—10,813
	FF 2	Nos. 10,814—10,902
	FF 3	Nos. 10,903—10,980

Honeywell, Inc. vs. Sperry Rand Corp., et al. (cont.)
Plaintiff's Trial Exhibits

Box 41	FF 4	Nos. 10,981—11,082
	FF 5	Nos. 11,092—11,166
	FF 6	Nos. 11,167—11,263
	FF 7	Nos. 11,264—11,299
	FF 8	Nos. 11,300—11,408
	FF 9	Nos. 11,409—11,526
	FF 10	Nos. 11,527—11,599
	FF 11	Nos. 11,600—11,720
	FF 12	No. 11,721-11,898
	FF 13	Nos. 11,900—11,932
	FF 14	Nos. 11,933—11,949
	FF 15	No. 11,950
	FF 16	Nos. 11,951—11,956
Box 42	FF 1	No. 11,957
	FF 2	Nos. 11,958—11,959.1
	FF 3	No. 11,960, part 1
	FF 4	No. 11,960, part 2
	FF 5	No. 11,960, part 3
	FF 6	No. 11,960, part 4
	FF 7	No. 11,960, part 5
	FF 8	Nos. 11,961—11,988
	FF 9	Nos. 11,989—12,095
	FF 10	Nos. 12,096.1—12,132

Honeywell, Inc. vs. Sperry Rand Corp., et al. (cont.)
Plaintiff's Trial Exhibits

Box 42	FF 11	Nos. 12,133—12,166.5
	FF 12	Nos. 12,167—12,276
	FF 13	Nos. 12,279—12,376
	FF 14	Nos. 12,377—12,465
	FF 15	Nos. 12,466—12,520
	FF 16	Nos. 12,542—12,594
	FF 17	Nos. 12,600—12,705
	FF 18	Nos. 12,706—12,769
Box 43	FF 1	Nos. 12,770—12,789
	FF 2	Nos. 12,789.5—12,814
	FF 3	Nos. 12,815—12,835
	FF 4	No. 12,836
	FF 5	Nos. 12,837—12,856
	FF 6	Nos. 12,857—12,887
	FF 7	No. 12,887.1
	FF 8	Nos. 12,888—13,030
	FF 9	Nos. 13,034—13,084
	FF 10	Nos. 13,085—13,126
	FF 11	No. 13,127
	FF 12	Nos. 13,129—13,173
	FF 13	Nos. 13,174—13,233
	FF 14	Nos. 13,234—13,337
	FF 15	Nos. 13,339—13,413

Honeywell, Inc. vs. Sperry Rand Corp., et al. (cont.)
Plaintiff's Trial Exhibits

Box 43	FF 16	Nos. 13,417—13,479
	FF 17	Nos. 13,480—13,524
	FF 18	Nos. 13,525—13,579
Box 44	FF 1	No. 13,580
	FF 2	Nos. 13,381—13,604
	FF 3	Nos. 13,605—13,654
	FF 4	Nos. 13,655—13,698
	FF 5	Nos. 13,700.1—13,785
	FF 6	Nos. 13,786—13,844
	FF 7	Nos. 13,849—13,963
	FF 8	Nos. 13,964—13,965
	FF 9	No. 13,968
	FF 10	Nos. 13,969—14,043
	FF 11	Nos. 14,044—14,157
	FF 12	Nos. 14,159—14,262.7
	FF 13	Nos. 14,265—14,352
	FF 14	Nos. 14,353—14,399
	FF 15	Nos. 14,401—14,424
	FF 16	Nos. 14,425—14,452
Box 45	FF 1	No. 14,451, part 1
	FF 2	Nos. 14,451, part 2—14,458
	FF 3	Nos. 14,460—14,512
	FF 4	Nos. 14,513—14,564

Honeywell, Inc. vs. Sperry Rand Corp., et al. (cont.)
Plaintiff's Trial Exhibits

Box 45	FF 5	Nos. 14,565.5—14,597
	FF 6	Nos. 14,600—14,658
	FF 7	Nos. 14,659—14,708.5
	FF 8	Nos. 14,708.6—14,777.1
	FF 9	Nos. 14,778—14,834
	FF 10	Nos. 14,835—14,887
	FF 11	Nos. 14,888—14,943
	FF 12	Nos. 14,944—15,035
	FF 13	Nos. 15,036—15,067
	FF 14	Nos. 15,068—15,087
	FF 15	No. 15,088
	FF 16	Nos. 15,089—15,091
Box 46	FF 1	No. 15,092
	FF 2	Nos. 15,093—15,129
	FF 3	Nos. 15,130—15,183
	FF 4	Nos. 15,184—15,199
	FF 5	Nos. 15,200—15,203
	FF 6	No. 15,204
	FF 7	Nos. 15,205—15,273.5
	FF 8	No. 15,274.5
	FF 9	Nos. 15,275—15,304
	FF 10	No. 15,304.5
	FF 11	Nos. 15,305—15,340.2

Honeywell, Inc. vs. Sperry Rand Corp., et al. (cont.)
Plaintiff's Trial Exhibits

Box 46	FF 12	Nos. 15,340.3—15,399
	FF 13	Nos. 15,400—15,434
	FF 14	Nos. 15,433—15,523
	FF 15	Nos. 15,524—15,653
	FF 16	Nos. 15,654—15,742
Box 47	FF 1	Nos. 15,743—15,791.5
	FF 2	Nos. 15,792—15,823
	FF 3	Nos. 15,824—15,831
	FF 4	Nos. 15,832—15,834
	FF 5	Nos. 15,835—15,840
	FF 6	Nos. 15,841—15,874
	FF 7	Nos. 15,875—15,899.1
	FF 8	Nos. 15,900—15,927
	FF 9	Nos. 15,927.5—15,938
	FF 10	Nos. 15,938.2—15,974.1
	FF 11	Nos. 15,977.4—16,039
	FF 12	Nos. 16,040—16,088
	FF 13	Nos. 16,089—16,104
	FF 14	Nos. 16,105—16,114
	FF 15	Nos. 16,115—16,136
Box 48	FF 1	Nos. 16,137—16,161
	FF 2	Nos. 16,162—16,182
	FF 3	No. 16,186, part 1

Honeywell, Inc. vs. Sperry Rand Corp., et al. (cont.)
Plaintiff's Trial Exhibits

Box 48	FF 4	No. 16,186, part 2
	FF 5	Nos. 16,187—16,199
	FF 6	Nos. 16,200—16,252
	FF 7	Nos. 16,258—16,295
	FF 8	Nos. 16,300—16,325.5
	FF 9	Nos. 16,326—16,365
	FF 10	Nos. 16,370—16,465
	FF 11	Nos. 16,466—16,699
	FF 12	Nos. 16,700—16,720
	FF 13	Nos. 16,721—16,745
	FF 14	Nos. 16,746—16,761
	FF 15	No. 16,762
	FF 16	Nos. 16,763—16,779.1
	FF 17	Nos. 16,783—16,854
Box 49	FF 1	Nos. 16,855—16,956
	FF 2	Nos. 16,957—17,134
	FF 3	Nos. 17,134.5, copy 1
	FF 4	Nos. 17,135.5, copy 2
	FF 5	Nos. 17,139—17,274
	FF 6	Nos. 17,275—17,444
	FF 7	Nos. 17,447—17,578
	FF 8	Nos. 17,579—17,798
	FF 9	Nos. 17,802—17,970

Honeywell, Inc. vs. Sperry Rand Corp., et al. (cont.)
Plaintiff's Trial Exhibits

Box 49	FF 10	Nos. 18,005—18,399
	FF 11	Nos. 18,400—18,599
	FF 12	Nos. 18,600—18,772
	FF 13	Nos. 18,781—18,875
	FF 14	Nos. 18,876—19,081
	FF 15	Nos. 19,081.3—19,235
	FF 16	Nos. 19,236—19,243
Box 50	FF 1	Nos. 19,245—19,269
	FF 2	Nos. 19,270—19,322
	FF 3	Nos. 19,323—19,327.1
	FF 4	No. 19,327.5
	FF 5	Nos. 19,327.5—19,432
	FF 6	Nos. 19,433—19,549
	FF 7	Nos. 19,550—19,634
	FF 8	Nos. 19,635—19,717
	FF 9	Nos. 19,718—19,770
	FF 10	Nos. 19,771—19,869
	FF 11	Nos. 19,870—19,915
	FF 12	Nos. 19,916—19,962
	FF 13	Nos. 19,963—20,070
	FF 14	Nos. 20,071—20,160
	FF 15	Nos. 20,161—20,199
Box 51	FF 1	Nos. 20,200—20,291

Honeywell, Inc. vs. Sperry Rand Corp., et al. (cont.)
Plaintiff's Trial Exhibits

Box 51	FF 2	Nos. 20,292—20,370
	FF 3	Nos. 20,371—20,456
	FF 4	Nos. 20,457—20,495
	FF 5	Nos. 20,496—20,508
	FF 6	No. 20,509
	FF 7	Nos. 20,510—20,523
	FF 8	No. 20,524, part 1
	FF 9	No. 20,524, part 2
	FF 10	Nos. 20,525—20,599
	FF 11	Nos. 20,600—20,675
	FF 12	Nos. 20,676—20,734
	FF 13	Nos. 20,735—20,848
	FF 14	Nos. 20,849—20,899
	FF 15	Nos. 20,900—20,924
	FF 16	Nos. 20,924—20,927
	FF 17	No. 20,928
Box 52	FF 1	Nos. 20,929—20,940
	FF 2	Nos. 20,941—20,999
	FF 3	Nos. 21,000—21,048
	FF 4	Nos. 21,049—21,076.5
	FF 5	Nos. 21,077—21,090
	FF 6	Nos. 21,091—21,126
	FF 7	No. 21,127

Honeywell, Inc. vs. Sperry Rand Corp., et al. (cont.)
Plaintiff's Trial Exhibits

Box 52	FF 8	No. 21,130
	FF 9	Nos. 21,131—21,144
	FF 10	No. 21,145, part 1
	FF 11	No. 21,145, part 2
	FF 12	Nos. 21,146—21,160
	FF 13	Nos. 21,161—21,220
	FF 14	Nos. 21,221—21,268
	FF 15	Nos. 21,269—21,282
	FF 16	Nos. 21,283—21,284
	FF 17	No. 21,285
Box 53	FF 1	Nos. 21,286—21,299
	FF 2	Nos. 21,300—21,315
	FF 3	No. 21,316
	FF 4	Nos. 21,317—21,325
	FF 5	Nos. 21,325—21,380
	FF 6	No. 21,381
	FF 7	Nos. 21,382—21,415
	FF 8	No. 21,416
	FF 9	Nos. 21,417—21,469
	FF 10	No. 21,470
	FF 11	Nos. 21,471—21,524
	FF 12	Nos. 21,526—21,538
	FF 13	No. 21,539, part 1

Honeywell, Inc. vs. Sperry Rand Corp., et al. (cont.)
Plaintiff's Trial Exhibits

Box 53	FF 14	No. 21,539, part 2
	FF 15	Nos. 21,540—21,557
	FF 16	No. 21,558
	FF 17	Nos. 21,559—21,578.1
	FF 18	No. 21,579
	FF 19	Nos. 21,580—21,607
Box 54	FF 1	No. 21,608
	FF 2	Nos. 21,609—21,611
	FF 3	No. 21,612, part 1
	FF 4	No. 21,612, part 2
	FF 5	No. 21,612, part 3
	FF 6	Nos. 21,613—21,614
	FF 7	No. 21,615
	FF 8	Nos. 21,614.005—21,624.1
	FF 9	Nos. 21,625—21,661
	FF 10	No. 21,662, part 1
	FF 11	No. 21,662, part 2
	FF 12	No. 21,662, part 3
	FF 13	No. 21,662, part 4
	FF 14	No. 21,662, part 5
	FF 15	No. 21,662, part 6
	FF 15	Nos. 21,662.5
	FF 16	Nos. 21,663—21,716

Honeywell, Inc. vs. Sperry Rand Corp., et al. (cont.)
Plaintiff's Trial Exhibits

Box 54	FF 17	Nos. 21,717—21,755.4
	FF 18	No. 21,755.5
Box 55	FF 1	Nos. 21,755.6—21,770.5
	FF 2	Nos. 21,770.6—21,785.03
	FF 3	Nos. 21,786—21,830
	FF 4	Nos. 21,831—21,879
	FF 5	Nos. 21,880—21,948
	FF 6	Nos. 21,949—21,991
	FF 7	Nos. 21,992—22,136
	FF 8	Nos. 22,137—22,187
	FF 9	Nos. 22,188—22,023
	FF 10	Nos. 22,024—22,073
	FF 11	Nos. 22,074—22,230
	FF 12	Nos. 22,231—22,269
	FF 13	Nos. 22,270—22,299
	FF 14	Nos. 22,300—22,342
	FF 15	Nos. 22,343—22,377
Box 56	FF 1	Nos. 22,378—22,446
	FF 2	Nos. 22,447—22,474
	FF 2	Nos. 22,475—22,539
	FF 3	Nos. 22,540—22,565
	FF 4	Nos. 22,565.1—22,566.51
	FF 5	Nos. 22,566.60—22,598

Honeywell, Inc. vs. Sperry Rand Corp., et al. (cont.)
Plaintiff's Trial Exhibits

Box 56	FF 6	Nos. 22,600—22,775
	FF 7	Nos. 22,776—22,822
	FF 8	Nos. 22,823—22,942
	FF 9	Nos. 22,943—23,176
	FF 10	Nos. 23,177—23,255
	FF 11	Nos. 23,256—23,348
	FF 12	Nos. 23,349—23,432.4
	FF 13	Nos. 23,433—23,614
	FF 14	No. 23,615
	FF 15	Nos. 23,616—23,699
Box 57	FF 1	Nos. 23,700—23,714
	FF 2	No. 23,715
	FF 3	Nos. 23,716—23,736
	FF 4	Nos. 23,737—24,012
	FF 5	Nos. 24,016—24,056
	FF 6	Nos. 24,068—24,168
	FF 7	Nos. 24,387—24,386
	FF 8	Nos. 24,387—24,475
	FF 9	Nos. 24,476—24,561
	FF 10	Nos. 24,562—24,638
	FF 11	Nos. 24,639—24,667
	FF 12	No. 24,667.5
	FF 13	Nos. 24,668—24,751

Honeywell, Inc. vs. Sperry Rand Corp., et al. (cont.)
Plaintiff's Trial Exhibits

Box 57	FF 14	Nos. 24,752—24,799
	FF 15	Nos. 24,800—24,879
	FF 16	Nos. 24,880—24,932
Box 58	FF 1	Nos. 24,934—24,999
	FF 2	Nos. 25,001—25,049
	FF 3	Nos. 25,051—25,112
	FF 4	No. 25,116
	FF 5	No. 25,117
	FF 6	No. 25,118
	FF 7	No. 25,119
	FF 8	No. 25,120
	FF 9	Nos. 25,121—24,128
	FF 10	No. 25,130
	FF 11	No. 25,131
	FF 12	Nos. 25,135—25,289
	FF 13	Nos. 25,290—25,321
	FF 14	Nos. 25,322—25,330
	FF 15	Nos. 25,331—25,350
	FF 15	Nos. 25,349—25,352
	FF 16	No. 25,353, part 1
Box 59	FF 1	No. 25,353, part 2
	FF 2	No. 25,354, part 1
	FF 3	No. 25,354, part 2

Honeywell, Inc. vs. Sperry Rand Corp., et al. (cont.)
Plaintiff's Trial Exhibits

Box 59	FF 4	Nos. 25,355—25,529.24
	FF 5	Nos. 25,529.25—25,667.3
	FF 6	Nos. 25,668—25,679
	FF 7	No. 25,681
	FF 8	No. 25,682, part 1
	FF 9	No. 25,682, part 2
	FF 10	No. 25,685-25,686

Defendants' Trial Exhibits

	FF 11	No. 1
	FF 12	No. 2
Box 87	FF 5	No. 2.01-1
	FF 6	No. 2.01-2
	FF 7	No. 2.01-3
	FF 8	No. 2.01-4
Box 59	FF 13	Nos. 2.02—3
Box 87	FF 9	Nos. 2.02—2.03-1
	FF 10	No. 2.03-2, A—G
	FF 11	No. 2.03-2, H—I
Box 88	FF 1	No. 2.03-4, I—L
	FF 2	No. 2.03-5
	FF 3	No. 2.03-6
	FF 4	No. 2.03-7
	FF 5	No. 2.03-8

Honeywell, Inc. vs. Sperry Rand Corp., et al. (cont.)
Defendants' Trial Exhibits

Box 88	FF 6	No. 2.03-9
	FF 7	No. 2.03-10
	FF 8	No. 2.03-11
	FF 9	No. 2.03-12
	FF 10	No. 2.03-13
	FF 11	No. 2.03-14
Box 89	FF 1	No. 2.03-15
	FF 2	No. 2.03-16
	FF 3	No. 2.03-17
	FF 4	No. 2.03-18
	FF 5	No. 2.03-19
	FF 6	No. 2.03-20
	FF 7	No. 2.03-21
Box 90	FF 1	No. 2.03-22
	FF 2	No. 2.03-23
	FF 3	No. 2.03-24
	FF 4	No. 2.03-25
	FF 5	No. 2.03-26
	FF 6	No. 2.03-28
Box 91	FF 1	No. 2.03-29
	FF 2	No. 2.03-30
	FF 3	No. 2.03-31
	FF 4	No. 2.03-32

Honeywell, Inc. vs. Sperry Rand Corp., et al. (cont.)
Defendants' Trial Exhibits

Box 91	FF 5	No. 2.03-33
	FF 6	No. 2.03-34
	FF 7	No. 2.03-35
Oversize 93		No. 2.03-36 — 2.03-53
		No. 2.1
		No. 2.2
Box 59	FF 14	No. 4
	FF 15	No. 5
	FF 16	No. 6
	FF 16	No. 7
	FF 17	No. 8, part 1
	FF 18	No. 8, part 2
	FF 19	No. 9
	FF 20	No. 10
Box 60	FF 1	No. 12
	FF 2	No. 13
	FF 3	No. 14, part 1
	FF 3	No. 14, part 2
	FF 4	No. 14.1, part 1
	FF 4	No. 14.1, part 2
	FF 5	No. 15
	FF 6	No. 15.1
Box 61	FF 1	No. 16, part 1

Honeywell, Inc. vs. Sperry Rand Corp., et al. (cont.)
Defendants' Trial Exhibits

Box 61	FF 2	No. 16, part 2
	FF 3	No. 17
	FF 4	No. 18
	FF 5	No. 19
	FF 6	No. 20, part 1
	FF 7	No. 20, part 2
	FF 8	No. 20, part 3
	FF 9	No. 21
	FF 10	No. 22, part 1
	FF 11	No. 22, part 2
	FF 12	No. 23
	FF 13	No. 24, part 1
	FF 14	No. 24, part 2
	FF 15	No. 25
	FF 16	Nos. 27—30
	FF 17	No. 31, part 1
	FF 18	No. 31, part 2
	FF 19	No. 32, part 1
	FF 20	No. 32, part 2
	FF 21	No. 33
Box 62	FF 1	No. 34, part 1
	FF 2	No. 34, part 2
	FF 3	No. 35

Honeywell, Inc. vs. Sperry Rand Corp., et al. (cont.)
Defendants' Trial Exhibits

Box 62	FF 4	No. 36, part 1
	FF 5	No. 36, part 2
	FF 6	No. 37
Oversize	93	No. 37, folio
Box 62	FF 7	No. 38
	FF 8	No. 39, part 1
	FF 9	No. 39, part 2
	FF 10	No. 40, part 1
	FF 11	No. 40, part 2
	FF 12	No. 41
	FF 13	No. 42, part 1
	FF 14	No. 42, part 2
	FF 15	No. 43
	FF 16	No. 44
	FF 17	No. 45, part 1
	FF 18	No. 45, part 2
Box 63	FF 1	No. 46
	FF 2	No. 47
	FF 3	Nos. 48—54
	FF 4	Nos. 55—56
	FF 5	Nos. 57—81
	FF 6	Nos. 82—97
	FF 7	Nos. 98—103

Honeywell, Inc. vs. Sperry Rand Corp., et al. (cont.)
Defendants' Trial Exhibits

Box 63	FF 8	Nos. 104—107
	FF 9	Nos. 108—109
	FF 10	Nos. 110—111
	FF 11	Nos. 112—124
	FF 12	Nos. 126—135
	FF 13	Nos. 136—151
	FF 14	No. 198
	FF 15	No. 199
	FF 16	Nos. 213—221
	FF 17	No. 237
	FF 18	No. 238
	FF 19	Nos. 239—252, part 1
Box 64	FF 1	Nos. 239—252, part 2
	FF 2	Nos. 254—273.1
	FF 3	Nos. 273—278
	FF 4	Nos. 279—283
	FF 5	No. 284, part 1
	FF 6	No. 284, part 2
	FF 7	Nos. 285—356
	FF 8	Nos. 357—450
	FF 8	Nos. 451—465
	FF 9	Nos. 466, part 1
	FF 10	Nos. 466, part 2

Honeywell, Inc. vs. Sperry Rand Corp., et al. (cont.)
Defendants' Trial Exhibits

Box 64	FF 11	Nos. 467—476
	FF 12	No. 477
	FF 12	No. 478-485
	FF 13	Nos. 486—543
	FF 14	No. 544, part 1
	FF 15	No. 544, part 2
	FF 16	Nos. 545—616
	FF 17	Nos. 617—711
Box 65	FF 1	Nos. 712—831
	FF 2	No. 832
	FF 3	Nos. 833—906
	FF 4	Nos. 907—950
	FF 5	Nos. 951—1013
	FF 6	Nos. 1014—1051
	FF 7	Nos. 1052—1099
	FF 8	Nos. 1100—1187
	FF 9	No. 1188
	FF 10	No. 1189
	FF 11	Nos. 1190—1273
	FF 12	No. 1274, part 1
	FF 13	No. 1274, part 2
Box 66	FF 1	No. 1274, part 3
	FF 2	Nos. 1272—1327

Honeywell, Inc. vs. Sperry Rand Corp., et al. (cont.)
Defendants' Trial Exhibits

Box 66	FF 3	No. 1328
	FF 4	Nos. 1329—1350
	FF 5	No. 1351
	FF 6	Nos. 1352—1399
	FF 7	Nos. 1400—1410
	FF 8	No. 1409
	FF 9	Nos. 1410—1415
	FF 9	No. 1416
	FF 10	Nos. 1417—1425
	FF 11	Nos. 1425—1451
	FF 1	No. 1452
Box 67	FF 2	Nos. 1453—1474
	FF 3	Nos. 1475—1499
	FF 4	Nos. 1500—1518
	FF 5	Nos. 1519—1554
	FF 6	Nos. 1555—1569
	FF 7	Nos. 1570—1592
	FF 8	Nos. 1593—1621
	FF 9	Nos. 1622—1649
	FF 10	Nos. 1650—1676
	FF 11	Nos. 1677—1714
	FF 12	Nos. 1715—1738
	FF 13	Nos. 1739—1761

Honeywell, Inc. vs. Sperry Rand Corp., et al. (cont.)
Defendants' Trial Exhibits

Box 67	FF 14	Nos. 1762—1799
Box 68	FF 1	Nos. 1800—1830
	FF 2	Nos. 1831—1864
	FF 3	Nos. 1865—1900
	FF 4	Nos. 1901—1917
	FF 5	No. 1918
	FF 6	Nos. 1919—1928
	FF 7	Nos. 1929—1949
	FF 8	Nos. 1950—1978
	FF 9	Nos. 1979—1994
	FF 10	Nos. 1995—2010
	FF 11	No. 2011
	FF 12	Nos. 2012—2024
	FF 13	Nos. 2025—2046
Box 69	FF 1	Nos. 2047—2070
	FF 2	No. 2071
	FF 3	Nos. 2072—2088
	FF 4	Nos. 2089—2110
	FF 5	Nos. 2111—2131
	FF 6	Nos. 2132—2146
	FF 7	Nos. 2147—2157
	FF 8	No. 2152
	FF 9	Nos. 2153—2179

Honeywell, Inc. vs. Sperry Rand Corp., et al. (cont.)
Defendants' Trial Exhibits

Box 69	FF 10	Nos. 2180—2190
	FF 11	Nos. 2191—2205
	FF 12	Nos. 2206—2240
	FF 13	Nos. 2241—2251
	FF 14	No. 2253, part 1
	FF 15	No. 2253, part 2
Box 70	FF 1	No. 2253, part 3
	FF 2	Nos. 2253.05—2253.95
	FF 3	Nos. 2254—2255
	FF 4	No. 2255
	FF 5	No. 2256
	FF 6	No. 2257
	FF 7	Nos. 2258—2280
	FF 8	Nos. 2281—2293
	FF 9	Nos. 2294—2305
	FF 10	Nos. 2306—2338
	FF 11	No. 2339
	FF 12	Nos. 2340—2350
	FF 13	Nos. 2351—2381
	FF 14	Nos. 2382—2389
	FF 15	No. 2390
	FF 16	Nos. 2391—2399
Box 71	FF 1	Nos. 2400—2402

Honeywell, Inc. vs. Sperry Rand Corp., et al. (cont.)
Defendants' Trial Exhibits

Box 71	FF 2	Nos. 2403—2409
	FF 3	Nos. 2410—2423
	FF 4	Nos. 2424—2434
	FF 5	Nos. 2435—2437
	FF 6	Nos. 2438—2444
	FF 7	Nos. 2445—2450
	FF 7	Nos. 2451—2459
	FF 8	Nos. 2460—2466
	FF 9	Nos. 2467—2476
	FF 10	Nos. 2477—2484
	FF 11	Nos. 2485—2491
	FF 12	Nos. 2492—2499
	FF 13	Nos. 2500—2504
Box 72	FF 1	Nos. 2505—2508
	FF 2	No. 2509
	FF 3	No. 2510
	FF 4	Nos. 2511—2514
	FF 5	Nos. 2515—2518
	FF 6	No. 2519
	FF 7	Nos. 2520—2549
	FF 8	No. 2550
	FF 9	No. 2551
	FF 10	Nos. 2552—2554

Honeywell, Inc. vs. Sperry Rand Corp., et al. (cont.)
Defendants' Trial Exhibits

Box 72	FF 11	Nos. 2555—2565
	FF 12	Nos. 3359—3362
	FF 13	Nos. 3363—3405
	FF 14	Nos. 3406—3424
Box 73	FF 1	No. 3425, part 1
	FF 2	No. 3425, part 2
	FF 3	Nos. 3426—3439
	FF 4	No. 3440
	FF 5	No. 3441
	FF 6	Nos. 3442—3459
	FF 7	No. 3460, part 1
	FF 8	No. 3460, part 2
	FF 9	No. 3460, part 3
	FF 10	Nos. 3461—3466
	FF 11	No. 3467
	FF 12	No. 3467—3468
	FF 13	No. 3469
	FF 14	No. 3470
	FF 15	Nos. 3471—3478
	FF 16	No. 3479
	FF 17	Nos. 3480—3488
Box 74	FF 1	No. 3489
	FF 2	No. 3490

Honeywell, Inc. vs. Sperry Rand Corp., et al. (cont.)
Defendants' Trial Exhibits

Box 74	FF 3	No. 3491
	FF 4	No. 3492
	FF 5	No. 3493
	FF 6	Nos. 3494—3495
	FF 7	Nos. 3496—3498
	FF 8	Nos. 3499—3502
	FF 9	Nos. 3503—3504
	FF 10	No. 3505
	FF 11	Nos. 3506—3509
	FF 12	Nos. 3510—3529
	FF 13	Nos. 3530—3574
	FF 14	No. 3577, part 1
	FF 15	No. 3577, part 2
	FF 16	No. 3577, part 3
	FF 17	Nos. 3578—3652
	FF 18	Nos. 3653—3672
Box 75	FF 1	Nos. 3673—3700
	FF 2	Nos. 3701—3726
	FF 3	No. 3727
	FF 4	Nos. 3728—3799
	FF 5	Nos. 3800—3842
	FF 6	No. 3842
	FF 7	No. 3844

Honeywell, Inc. vs. Sperry Rand Corp., et al. (cont.)
Defendants' Trial Exhibits

Box 75	FF 8	Nos. 3845—3929
	FF 9	Nos. 3930—4000
	FF 10	Nos. 4001—4087
	FF 11	Nos. 4088—4175
	FF 12	Nos. 4176—4193
	FF 13	No. 4194
	FF 14	Nos. 4195—4233
	FF 15	No. 4234
	FF 16	Nos. 4235—4283
	FF 17	No. 4284
	FF 18	Nos. 4285—4362
Box 76	FF 1	Nos. 4363—4433
	FF 2	No. 4434
	FF 3	No. 4460
	FF 4	Nos. 4461—4487
	FF 5	No. 4488
	FF 6	Nos. 4489—4524
	FF 7	No. 4525
	FF 8	Nos. 4526—4589
	FF 9	Nos. 4590—4620
	FF 10	Nos. 4621—4717
	FF 11	Nos. 4718—4724
	FF 12	No. 4725

Honeywell, Inc. vs. Sperry Rand Corp., et al. (cont.)
Defendants' Trial Exhibits

Box 76	FF 13	Nos. 4726—4733
	FF 14	No. 4735, part 1
	FF 15	No. 4735, part 2
	FF 16	Nos. 4736—4777
	FF 17	No. 4778
	FF 18	Nos. 4779—4814
Box 77	FF 1	No. 4815, part 1
	FF 2	No. 4815, part 2
	FF 3	Nos. 4816—4839
	FF 4	Nos. 4840—4880
	FF 5	Nos. 4881—4930
	FF 6	Nos. 4931—4940
	FF 7	No. 4941
	FF 8	Nos. 4943—4944
	FF 9	No. 4945, part 1
	FF 10	No. 4945, part 2
	FF 11	Nos. 4646—4961
	FF 12	No. 4962
	FF 13	Nos. 4963—4979
	FF 14	No. 4980
	FF 15	Nos. 4984—4995
	FF 16	No. 4996
	FF 17	Nos. 4997—5004

Honeywell, Inc. vs. Sperry Rand Corp., et al. (cont.)
Defendants' Trial Exhibits

Box 77	FF 18	No. 5005, part 1
Box 78	FF 1	No. 5005, part 2
	FF 2	Nos. 5006—5030
	FF 3	Nos. 5031—5039
	FF 4	No. 5040
	FF 5	Nos. 5041—5077
	FF 6	No. 5078, part 1
	FF 7	No. 5078, part 2
	FF 8	Nos. 5079—5100
	FF 9	No. 5101
	FF 10	Nos. 5102—5143
	FF 11	No. 5144
	FF 12	Nos. 5145—5147
	FF 13	No. 5148, part 1
	FF 14	No. 5148, part 2
Box 79	FF 1	No. 5148, part 3
	FF 2	No. 5148, part 4
	FF 3	No. 5148, part 5
	FF 4	Nos. 5149—5155
	FF 5	No. 5156, part 1
	FF 6	No. 5156, part 2
	FF 7	Nos. 5157—5168
	FF 8	Nos. 5169—5175

Honeywell, Inc. vs. Sperry Rand Corp., et al. (cont.)
Defendants' Trial Exhibits

Box 79	FF 9	Nos. 5176—5211
	FF 10	No. 5212, part 1
	FF 11	No. 5212, part 2
	FF 12	Nos. 5213—5241
	FF 13	Nos. 5242—5247
	FF 14	No. 5248
	FF 15	Nos. 5249—5256
	FF 16	Nos. 5257—5274
	FF 17	No. 5275
	FF 18	Nos. 5276—5291
	FF 19	No. 5292
Box 80	FF 1	Nos. 5293—5302
	FF 2	Nos. 5303—5308
	FF 3	No. 5309
	FF 4	Nos. 5310—5328
	FF 5	Nos. 5329—5353
	FF 6	Nos. 5353—5368
	FF 7	Nos. 5369—5408
	FF 8	Nos. 5409—5450
	FF 9	Nos. 5451—5457
	FF 10	No. 5458, part 1
	FF 11	No. 5458, part 2
	FF 12	No. 5459

Honeywell, Inc. vs. Sperry Rand Corp., et al. (cont.)
Defendants' Trial Exhibits

Box 80	FF 13	Nos. 5460—5465
	FF 14	Nos. 5466—5474
	FF 15	Nos. 5475—5506
	FF 16	Nos. 5507—5527
	FF 17	No. 5528
	FF 18	Nos. 5529—5540
Box 81	FF 1	Nos. 5541—5562
	FF 2	No. 5563
	FF 3	Nos. 5564—5591
	FF 4	Nos. 5592—5611
	FF 5	Nos. 5612—5622
	FF 6	Nos. 5623—5660
	FF 7	No. 5661
	FF 8	Nos. 5663—5669
	FF 9	Nos. 5670—5674
	FF 10	No. 5675
	FF 11	No. 5676
	FF 12	Nos. 5677—5678
	FF 13	Nos. 5679—5718
	FF 14	Nos. 5719—5735
	FF 15	Nos. 5736—5739
	FF 16	Nos. 5740—5745
	FF 17	No. 5746

Honeywell, Inc. vs. Sperry Rand Corp., et al. (cont.)
Defendants' Trial Exhibits

Box 82	FF 1	No. 5747
	FF 2	Nos. 5748—5790
	FF 3	Nos. 5791—5821
	FF 4	Nos. 5822—5848
	FF 5	Nos. 5849—5899
	FF 6	Nos. 5900—5925
	FF 7	Nos. 5926—5941
	FF 8	Nos. 5942—5950
	FF 9	No. 5951
	FF 10	No. 5955
	FF 11	Nos. 5956—5962
	FF 12	Nos. 5963—5968
	FF 13	No. 5969
	FF 14	Nos. 5970—5984
	FF 15	No. 5985, Vol. 1, part 1
	FF 16	No. 5985, Vol. 1, part 2
	FF 17	No. 5985, Vol. 2, part 1
Box 83	FF 1	No. 5985, Vol. 2, part 2
	FF 2	Nos. 5986—6015
	FF 3	Nos. 6016—6046
	FF 4	No. 6047
	FF 5	Nos. 6048—6120
	FF 6	Nos. 6121—6200

Honeywell, Inc. vs. Sperry Rand Corp., et al. (cont.)
Defendants' Trial Exhibits

Box 83	FF 7	Nos. 6201—6250
	FF 8	Nos. 6251—6338
	FF 9	Nos. 6339—6375
	FF 10	Nos. 6376—6410
	FF 11	Nos. 6411—6422
	FF 12	Nos. 6443—6481
	FF 13	Nos. 6482—6510
	FF 14	Nos. 6511—6540
	FF 15	Nos. 6541—6590
	FF 16	Nos. 6591—6624
Box 84	FF 1	Nos. 6625—6650
	FF 2	Nos. 6651—6687
	FF 3	Nos. 6688—6735.2
	FF 4	No. 6736, part 1
	FF 5	No. 6736, part 2
	FF 6	No. 6736, part 3
	FF 7	Nos. 6737—6759
	FF 8	No. 6760
	FF 9	Nos. 6761—6762
	FF 10	Nos. 6763—6785
	FF 11	Nos. 6786—6794
	FF 12	Nos. 6795—6798
	FF 13	No. 6799

Honeywell, Inc. vs. Sperry Rand Corp., et al. (cont.)
Defendants' Trial Exhibits

Box 84	FF 14	Nos. 6800—6801
	FF 15	Nos. 6802.1—6807.13
	FF 16	Nos. 6807.14—6807.15, part 1
	FF 17	No. 6807.15, part 2
Box 85	FF 1	Nos. 6807.16—6807.17
	FF 2	Nos. 6807.18—6807.29
	FF 3	No. 6807.30
	FF 4	Nos. 6807.31—6807.36
	FF 5	Nos. 6807.37—6807.38
	FF 6	No. 6807.39, part 1
	FF 7	No. 6807.39, part 2
	FF 8	Nos. 6807.40—6807.50
	FF 9	No. 6807.51
	FF 10	Nos. 6807.52—6807.58
	FF 11	No. 6807.59
	FF 12	Nos. 6807.60—6807.71
	FF 13	Nos. 6807.72—6807.76
	FF 14	Nos. 6807.77—6808
	FF 15	Nos. 6809—6821
	FF 16	No. 6822
	FF 17	No. 6823, Vol. 1, part 1
Box 86	FF 1	No. 6823, Vol. 1, part 2
	FF 2	No. 6823, Vol. 2, part 1

Honeywell, Inc. vs. Sperry Rand Corp., et al. (cont.)
Defendants' Trial Exhibits

Box 86	FF 3	No. 6823, Vol. 2, part 2
	FF 4	Nos. 6824—6830
	FF 5	No. 6831, part 1
	FF 6	No. 6831, part 2
	FF 7	No. 6831, part 3
	FF 8	No. 6831, part 4
	FF 9	No. 6831, part 5
	FF 10	No. 6832, part 1
	FF 11	No. 6832, part 2
	FF 12	No. 6832, part 3
	FF 13	No. 6832, part 4
	FF 14	Nos. 6833—6849
	FF 15	Nos. 6849.1—6866
	FF 16	Nos. 6867—6956
Box 87	FF 1	Nos. 6857—6962
	FF 2	No. 6963, part 1
	FF 3	No. 6963, part 2
	FF 4	Nos. 6964—6973

Sperry Rand Corp., et al. vs. Bell Telephone Laboratories, Inc.
Depositions and Exhibits

Box 94	FF 1	III-A, part 1
	FF 2	III-A, part 2
	FF 3	III-A, part 3

ENIAC Patent Trial Collection
UPD 8.10
Inventory

Sperry Rand Corp., et al. vs. Bell Telephone Laboratories, Inc. (cont.)
Depositions and Exhibits

Box 94	FF 4	III-A, part 4
	FF 5	III-A, part 5
	FF 6	III-A, part 6
	FF 7	III-B-1, part 1
	FF 8	III-B-1, part 2
	FF 9	III-C-1
	FF 10	III-ZA, part 1
	FF 11	III-ZA, part 2
	FF 12	III-ZC, part 1
	FF 13	III-ZC, part 2
	FF 14	III-ZC, part 3
Box 95	FF 1	III-ZC, part 4
	FF 2	IV-F, part 1
	FF 3	IV-F, part 2
	FF 4	IV-G, part 1
	FF 5	IV-G, part 2
	FF 6	IV-G, part 3
	FF 7	IV-H
	FF 8	IV-N
	FF 9	IV-O
	FF 10	IV-O-1
	FF 11	IV-O-2, part 1
	FF 12	IV-O-2, part 2

**ENIAC Patent Trial Collection
UPD 8.10
Inventory**

Sperry Rand Corp., et al. vs. Bell Telephone Laboratories, Inc. (cont.)
Depositions and Exhibits

Box 95	FF 13	IV-O-3
	FF 14	IV-O-4
	FF 15	IV-Q
Box 92		Post-Trial Brief Listing, Vols. I-V

[Return to main page for this collection](#)

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