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5	DISTRIC	T OF NEVADA
6		* * *
7	SYMBOL TECHNOLOGIES, INC., et al.,	,))
8	Plaintiffs,	 CV-S-01-701-PMP (RJJ) (Base File)
9	v.) (Dase The)
10	LEMELSON MEDICAL, EDUCATION & RESEARCH FOUNDATION,	
11	LIMITED PARTNERSHIP,	
12	Defendant.	
13	COGNEX CORPORATION,))
14	Plaintiff, v.)))
15 16	LEMELSON MEDICAL, EDUCATION & RESEARCH FOUNDATION, LIMITED PARTNERSHIP,))) CV-S-01-702-PMP (RJJ)
17	Defendant.	/))
18)
19	TELXON CORPORATION,)
20	Plaintiff,)
21	v.	
22	LEMELSON MEDICAL, EDUCATION & RESEARCH FOUNDATION,) CV-S-01-703-PMP (RJJ)
23	LIMITED PARTNERSHIP,)
24	Defendant.)
25)
26	FINDINGS OF FACT AN	D CONCLUSIONS OF LAW

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This action commenced with the filing of separate Complaints by Symbol 1 Technologies, Inc., Accu-sort Systems, Inc., Intermec Technologies Corp., Metrologic 2 Instruments, Inc., PSC Inc., Teklogix Corp. and Zebra Technologies Corp. (collectively 3 "Symbol") and Cognex Corp. ("Cognex"), for declaratory judgment pursuant to 28 U.S.C. 4 § 2201(a) (1994), against Lemelson Medical, Education & Research Foundation, Limited 5 Partnership ("Lemelson"). The Complaints filed on behalf of Symbol and Cognex sought a 6 judgment that fourteen patents-in-suit¹ are invalid, unenforceable, and not infringed by 7 Symbol or Cognex, or their customers. These two cases were consolidated on March 21, 8 2000 (#44). 9

Following extensive pretrial proceedings and an interlocutory appeal to the
United States Court of Appeals for the Federal Circuit, these consolidated actions
proceeded to a bench trial conducted from November 18, 2002, through January 17, 2003,
followed by five and one-half months of post-trial briefing which concluded on June 30,
2003.

BACKGROUND

Lemelson claims to be the assignee of approximately 185 unexpired patents and
 many pending patent applications of the late Jerome H. Lemelson. The patents-in-suit
 generally involve machine vision and automatic identification bar code technology which
 Lemelson maintains are entitled to the benefit of the filing date of two Lemelson patent
 applications filed in 1954 and 1956.

Plaintiffs Symbol and Cognex design, manufacture and sell bar code scanners
 and machine vision products, respectively. In and prior to 1998, customers of Symbol and
 Cognex began receiving letters from Lemelson stating that the use of Symbol and Cognex
 products infringed various Lemelson patents. Symbol and Cognex claim that they will be

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¹ The patents-in-suit are U.S. Patents No. 4,338,626; 4,511,918; 4,969,038; 4,979,029; 4,984,073; 5,023,714; 5,067,012; 5,119,190; 5,119,205; 5,128,753; 5,144,421; 5,249,045; 5,283,641; and 5,351,078.

forced to indemnify their customers should any of the Lemelson patents be found to be 1 infringed. As a result, Symbol and Cognex filed this action seeking a declaration that uses 2 of their bar code scanners and machine vision systems and products do not infringe the 3 Lemelson patents-in-suit. Symbol and Cognex also seek judgment that the patents-in-suit 4 are invalid under 35 U.S.C. § 101 for lack of utility; 35 U.S.C. § 102 for anticipation; 35 5 U.S.C. § 103 for obviousness; 35 U.S.C. § 112 for failure to comply with the written б description, enablement and definiteness requirements; and for double patenting. 7 Additionally, Symbol and Cognex seek judgment that the patents-in-suit are unenforceable 8 for prosecution laches, and due to Lemelson's inequitable conduct in securing the patents-9 in-suit from the U.S. Patent and Trademark Office. 10

Lemelson has counterclaimed for declarations that Symbol and Cognex infringed the patents-in-suit by contributory infringement and inducing infringement. Lemelson does not seek infringement damages from Symbol or Cognex by reason of their sale of goods to third parties, but Lemelson has filed infringement actions against various third parties or has reserved the right to do so. Additionally, Lemelson requests that the Court award attorneys' fees and costs under the "exceptional case" provisions of 32 U.S.C. § 285.

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Based upon the evidence adduced at trial, the Admitted Facts² set forth in the

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² The following facts are admitted by the parties in the Joint Pretrial Order (#355):

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^{1.} Symbol Technologies, Inc., ("Symbol") is a corporation organized and existing under the laws of the State of Delaware and maintains a place of business in Holtsville, New York.

^{2.} Cognex Corporation ("Cognex") is a corporation organized and existing under the laws of the Commonwealth 21 of Massachusetts and maintains its principal place of business in Natick, Massachusetts.

^{3.} Defendant Lemelson Medical, Education and Research Foundation, Limited Partnership ("LMERF"), is a limited partnership organized and existing under the laws of the State of Nevada.

^{4.} Jerome Lemelson caused LMERF to be formed in or about September 1993. Jerome Lemelson was the sole 23 general partner of LMERF until his death on October 1, 1997.

^{5.} LMERF is engaged in the business of enforcing and licensing patents issued to Mr. Lemelson.

^{6.} Jerome H. Lemelson is the sole named inventor of the fourteen patents-in-suit.

 ^{7.} U.S. App. Ser. No. 477,467, which was filed in 1954 ("the 1954 application"), was the original application.
 It did not claim priority under § 120 to any other application.

^{8.} Mr. Lemelson abandoned the 1954 application in 1964; it did not issue as a patent.

^{9.} The 1956 application was an original application. Upon filing, it did not claim priority under § 120 to any other application.

2	10. The 1956 application issued as U.S. Patent No. 3,081,379 ("the '379 patent") on March 12, 1963. The '379
_	patent had seventeen claims and expired on March 12, 1980.
3	11. Mr. Lemelson asserted that the 1963 application was a CIP of both U.S. Application Ser. No. 626,211, which
4	was filed in 1956 ("the 1956 application"), and the 1954 application. 12. The 1963 application repeated all figures and nearly all text of the 1956 application.
4	13. Mr. Lemelson filed U.S. Application Ser. No. 254,710 on May 18, 1972 ("the 1972 application"), which
5	issued as U.S. Patent No. 4,118,730 on November 3, 1978.
	14. All patents-in-suit contain an identical specification (the "common specification"), excluding the abstract and
6	the claims, to that of the 1972 application.
	15. The 1972 application was a "continuation-in-part" application ("CIP") of United states Application Ser. No.
7	267,377, which was filed in 1963 ("the 1963 application").
	16. The 1972 application repeated nearly all of the 118 pages of text and all twenty-eight figures of the 1963
8	application.
	17. Twenty-three of the twenty-eight figures and more than fifty-one of the sixty-five columns of text in the
9	common specification of the patents-in-suit are repeated from the 1956 application.
	18. U.S. Application Ser. No. 778,331 was filed on March 16, 1977 ("the 1977 application"). this application
10	referenced the 1972, 1963, 1956, and 1954 applications by serial number and filing date and issued as U.S. Pat. No.
	4,148,061 on April 3, 1979.
11	19. U.S. Application Ser No. 13,608 was filed on February 16, 1979 ("the 1979 application"). This application referenced the 1977, 1972, 1963, 1956 and 1954 applications by serial number and filing date and issued as U.S. Pat. No.
	4,338,626 on July 6, 1982.
12	20. U.S. Application Ser No. 394,946 was filed on July 2, 1982 ("the 1982 application"). This application
	referenced the 1979, 1977, 1972, 1963, 1956 and 1954 applications by serial number and filing date and issued as U.S. Pat.
13	No. 4,511,918 on April 16, 1985.
	21. U.S. Application Ser No. 723,183 was filed on April 15, 1985 ("the 1985 application"). This application
14	referenced the 1982, 1979, 1977, 1972, 1963, 1956 and 1954 applications by serial number and filing date and issued as
1-	U.S. Pat. No. 4,660,086 on April 21, 1987.
15	22. U.S. Application Ser No. 906,969 was filed on September 15, 1986 ("the 1986 application"). This application
16	referenced the 1985, 1979, 1977, 1972, 1963, 1956 and 1954 applications by serial number and filing date and issued as
10	U.S. Pat. No. 4,984,073 on January 8, 1991. 23. U.S. Application Ser No. 411,402 was filed on September 22, 1989. This application referenced the 1986,
17	1985, 1979, 1977, 1972, 1963, 1956 and 1954 applications by serial number and filing date and issued as U.S. Pat. No.
-	4,969,038 on November 6, 1990.
18	24. U.S. Application Ser No. 426,080 was filed on October 24, 1989. This application referenced the 1986, 1985,
	1979, 1977, 1972, 1963, 1956 and 1954 applications by serial number and filing date and issued as U.S. Pat. No. 5,119,190
19	on June 2, 1992.
	25. U.S. Application Ser No. 453,789 was filed on December 20, 1989. This application referenced the 1986,
20	1985, 1979, 1977, 1972, 1963, 1956 and 1954 applications and Ser. No. 411,402 (see above) by serial number and filing
	date and issued as U.S. Pat. No. 5,128,753 on July 7, 1992.
21	26. U.S. Application Ser No. 500,287 was filed on March 27, 1990. This application referenced the 1986, 1985,
	1979, 1977, 1972, 1963, 1956 and 1954 applications by serial number and filing date and issued as U.S. Pat. No. 5,067,012 on November 19, 1991.
22	27. U.S. Application Ser No. 500,288 was filed on March 27, 1990. This application referenced the 1986, 1985,
	1979, 1977, 1972, 1963, 1956 and 1954 applications by serial number and filing date and issued as U.S. Pat. No. 4,979,029
23	on December 18, 1990.
24	28. U.S. Application Ser No. 571,764 was filed on August 22, 1990. This application referenced the 1986, 1985,
24	1979, 1977, 1972, 1963, 1956 and 1954 applications and Ser. No. 500,287 (see above) by serial number and filing date
25	and issued as U.S. Pat. No. 5,023,714 on June 11, 1991.
2,7	29. U.S. Application Ser No. 609,917 was filed on November 5, 1990. This application referenced the 1986,
26	1985, 1979, 1977, 1972, 1963, 1956 and 1954 applications and Ser. No. 411,402 (see above) by serial number and filing
20	date and issued as U.S. Pat. No. 5,119,205 on June 2, 1992.

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Joint Pretrial Order (#355), and the arguments presented in the post-trial briefs, the Court 1 2 hereby makes the following Findings of Fact and Conclusions of Law: 3 I. JURISDICTION 4 The Court has jurisdiction over this action pursuant to the Declaratory Judgment 5 Act, 28 U.S.C. § 2201, and the Patent Statute, 28 U.S.C. §§ 1331 and 1338(a). 6 7 8 **II. THE PATENTS AND CLAIMS IN SUIT** In Festo v. Shoketsu, 535 U.S. 722, 730-31 (2002), the Supreme Court stated: 9 The patent laws "promote the progress of Science and Useful Arts" by 10 rewarding innovation with a temporary monopoly. U.S.C.A. Const., Art. I, § 8, cl. 8. The monopoly is a property right; and like any 11 property right, it's boundary should be clear. This clarity is essential to promote progress, because it enables efficient investment in 12 innovation. A patent holder should know what he owns, and the public should know what he does not. 13 In 1954 and 1956, Jerome Lemelson filed two lengthy patent applications in the 14 United States Patent Office that purported to describe specific methods and apparatus for 15 performing the inspection and measurement of objects. The 1954 application was 16 abandoned, but a successor to that application issued in 1969 as Lemelson's '481 patent, 17 which expired in 1986. The 1956 application issued in 1963 as Lemelson's '379 patent, 18 19 30. U.S. Application Ser No. 826,617 was filed on January 28, 1992. This application referenced the 1986, 1985, 20 1979, 1977, 1972, 1963, 1956 and 1954 applications and Ser. No. 426,080 (see above) by serial number and filing date and issued as U.S. Pat. No. 5,249,045 on September 28, 1993. 21 31. U.S. Application Ser No. 872,344 was filed on April 23, 1992. This application referenced the 1986, 1985, 1979, 1977, 1972, 1963, 1956 and 1954 applications and Ser. No. 453,789 (see above) by serial number and filing date 22 and issued as U.S. Pat. No. 5,144,421 on September 1, 1992. 32. U.S. Application Ser No. 78,681 was filed on June 16, 1993. This application referenced the 1986, 1985, 23 1979, 1977, 1972, 1963, 1956 and 1954 applications and Ser. No. 426,080 and 826,617 (see above) by serial number and filing date and issued as U.S. Pat. No. 5,283.641 on February 1, 1994. 24 33. U.S. Application Ser No. 122,888 was filed on September 16, 1993. This application referenced the 1986,

34. Mr. Lemelson's U.S. Patent No. 4,653,109 ("the '109 patent"), entitled "Image Analysis System and Meth od," is not related to the patents-in-suit. It issued in 1987 on an application filed in 1984.

 ^{1985, 1979, 1977, 1972, 1963, 1956} and 1954 applications and Ser. No. 426,080, 826, 617 and 078,681 (see above) by serial number and filing date and issued as U.S. Pat. No. 5,351,078 on September 27, 1994.

1	and expired in 1980. However, in 1963, before the '379 patent issued, Lemelson filed a		
2	"continuation-in-part" (CIP) application which added additional drawings and text to the		
3	1956 application. In 1972, Lemelson filed another CIP application which added more text		
4	and which thereafter formed the specification of an additional sixteen patent applications		
5	filed by Lemelson between 1977 and 1993. These constitute the "common specification"		
6	relevant to this case.		
7	The abstract contained in Lemelson's '029 patent-in-suit filed March 27, 1990, ³		
8	provides the following general description of the common specification of the patents-in-		
9	suit:		
10	An automatic scanning apparatus and method for detecting the presence of one or more objects in an image field under investigation		
11	or inspection. Electra-optical scanning means, such as a television camera, is employed to scan an image field and generate output		
12	electrical signals which vary in accordance with variations in the optical characteristics of the matter and objects in the image field		
13	scanned. Such signals are computer processed and analyzed to generate coded electrical signals which define optical characteristics of		
14	portion of the image field scanned, such as objects or the images of objects canned, their shape, color of a combination of color and shape.		
15	Electronic means is provided to generate further coded electrical signals which indicate the presence of one or more objects in the image		
16	field scanned and may be used to effect intelligent indications thereof, to control one or more devices such as a motor or motors, and/or to		
17	provide information for computational purposes to be processed and utilized by a computer. In one form, the shape of an object or objects		
18	is detected and coded signals generated are employed to effect a comparison of such shape with information relating to the shapes of		
19	known objects to identify the object or objects scanned. In another form, the color or surface characteristics of an object is detected and		
20	resulting signals indicative thereof are compared with information derived from a memory to identify either the object or its color or		
21	surface characteristics. In a third form both shape and color are detected and compared with recorded information for identification		
22	purposes.		
23	Thirteen of the patents-in-suit contained an identical specification to that of the		
24	1972 application-"the common specification." The '190 patent contains additional material		
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26	³ See Exhibit 17A attached hereto.		

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not found in the other patents. Not surprisingly, the evidence offered by Symbol and 1 Cognex regarding the disclosure of the common specification and the structure, operation 2 and use of the accused products varies widely from the scope of the disclosure advanced by 3 Lemelson. 4

First, Symbol and Cognex argue that the seventy-six asserted claims are 5 unenforceable due to prosecution laches. Even if they are not, Symbol and Cognex 6 maintain that the asserted claims are not infringed, that they are invalid due to lack of 7 written description, that they are invalid because they are not enabled, that they are 8 unenforceable due to inequitable conduct on the part of Lemelson, and that the '626 and 9 '918 patent claims are invalid based on anticipatory prior art. Lemelson responds that the 10 evidence calls for rejection of the allegations made by Symbol and Cognex and insists that 11 Lemelson must be deemed the pioneer in the machine vision and bar code fields whose 12 inventions have been infringed by Symbol, Cognex and many others. 13

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III. PROSECUTION LATCHES

Symbol and Cognex contend that to the extent Lemelson made and disclosed any innovations in his 1954 or 1956 patent applications, his delay of from 18 to 39 years in filing the applications that issued as the patents-in-suit requires that Lemelson's right to those claims be deemed forfeited under the equitable doctrine of prosecution laches. Indeed, Symbol and Cognex maintain that during the intervening decades after Lemelson's 20 1954 and 1956 filings, the technology Lemelson now tries to cover had already been 21 exploited by Symbol and Cognex and other members of the public within the machine 22 vision and bar code industries who had never heard of Lemelson or his patents. 23

The defense of prosecution laches was first recognized in the patent context 24 nearly 150 years ago in Kendall v. Winsor, 62 U.S. 322 (1858). In Kendall, the Supreme 25 Court held that a person "may forfeit his rights as an inventor by a willful or negligent 26

postponement of his claims, or by an attempt to withhold the benefit of his improvement from the public until a similar or the same improvement should have been made and introduced to others." Id. at 329.

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Sixty-five years later, in Woodbridge v. United States, 263 U.S. 50 (1923), and Webster Electric Co. v. Splitdorf Electrical Co., 264 U.S. 463 (1924), the Supreme Court 5 applied the defense of prosecution laches to prevent the applicant from deliberately 6 delaying the issuance of a patent solely to increase its commercial value, and to prevent a 7 patent applicant from unreasonably postponing the time when the public could enjoy the 8 free use of an invention. 9

In Symbol Technologies, Inc. v. Lemelson Medical, Education and Research 10 Foundation, 277 F.3d 1361, 1363 (Fed. Cir. 2002), the Federal Circuit held in this case that 11 the doctrine of prosecution laches "... may be applied to bar enforcement of patent claims 12 that issued after an unreasonable and unexplained delay in prosecution even though the 13 applicant complied with pertinent statutes and rules." See also In re: Bogese II, 303 F.3d 14 1362, 1367 (Fed. Cir. 2002). This Court concurs with the holdings of other district courts 15 considering the defense of prosecution laches, that the holder of a valid patent may 16 nonetheless be barred from enforcing it if there was an unreasonable and unexplained delay 17 in prosecuting the patent claim, and the alleged infringer has suffered prejudice as a result. 18 See Cummins-Allison Corp. v.Glory Ltd., 2003 WL 355470 (N.D. Ill. 2003); Chiron Corp. 19 v. Genentech, Inc., 2002 WL 32123928, (E.D.Cal. 2002) and A.C. Aukerman Co. v. R.L. 20 Chaides Constr. Co., 960 F.2d 1020 (Fed. Cir. 1992). 21

As an equitable doctrine based on the unreasonableness of the delay in 22 prosecuting a patent application, prosecution laches must necessarily be evaluated on a 23 case-by-case basis. The fact that the patent office ultimately issued patents to Lemelson 24 cannot foreclose the inquiry regarding the application of prosecution laches nor can the 25 overall pendency and presentation of the asserted claims be ignored in assessing whether 26

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the delay in this case was unreasonable.⁴

The Court rejects Lemelson's post-trial argument that the recent Supreme Court 2 decision in Eldrid v. Ashcroft, 537 U.S. 186 (2003), provides that delay in securing asserted claims "does not contravene the Constitution," as removing the prosecution laches issue from the table. Eldrid held that the statutory extension of the existing copyright term does 5 not exceed the power of Congress under the Constitution. The question before the Court 6 here, however, is not whether Congress can modify the statutory term of a patent, but 7 whether an individual patent applicant can do so unilaterally. 8

Applying the foregoing standard to the preponderance of the evidence adduced at trial, the Court finds that Lemelson's 18 to 39 year delay in filing and prosecuting the asserted claims under the fourteen patents-in-suit after they were first purportedly disclosed in the 1954 and 1956 applications was unreasonable and unjustified and that the doctrine of prosecution laches renders the asserted claims unenforceable against Symbol and Cognex.

The first patent based on Lemelson's 1954 application issued in 1962, and the 14 first patent based on Lemelson's 1956 application issued in 1963. From that point forward, 15

¹⁷ Through the testimony of Arthur Steiner, an attorney who previously worked as a Patent Examiner, Symbol and Cognex sought to challenge the process by which the Lemelson patents were issued contending 18 that they were never really thoroughly reviewed by Patent Examiners in the U.S. Patent Office. Steiner's testimony, however, without apparent foundation as to precisely what the Patent Examiners considering the 19 Lemelson patent applications had in fact done, went to the extreme of opining that Patent Examiners sometimes "punt" when they are confused or unable to determine whether they are really dealing with something new, and 20 may under such circumstances issue a patent with a "terminal disclaimer," although Mr. Steiner denied ever doing so himself during his years as a Patent Examiner. Viewed in its most pejorative light, Steiner's testimony 21 could be read as a strong indictment of the U.S. Patent Office in which Patent Examiners are limited to approximately 19 hours per patent review and when confronted with applications as complicated as those 22 involved with the Lemelson patents, are put in a position of falsely representing that they had reviewed materials when in fact they had not. Worse, Steiner testified that the circumstances have been recognized "not 23 only judicially, but in Congress...." See Trial Transcript Doc. 434 at p. 96. Although the Court has no doubt 24 Mr. Steiner holds the opinions expressed, the Court gives his testimony very little weight and finds it an inadequate basis upon which to base any factual findings or legal conclusions in this case. That the Patent 25 Office review of the Lemelson applications was protracted and complicated is obvious to anyone with even a glancing familiarity with this case. Nonetheless, the Patent Office ultimately issued patents to Lemelson and 26 the Court accepts that fact as established.

1	the public was entitled to assume that what was not claimed was dedicated to the public.
2	Maxwell v. Baker, 86 F.3d 1098, 1106 (Fed. Cir. 1996). Moreover, by 1987, every claim
3	that Lemelson had applied for in his 1972 application or earlier had issued as a patent. The
4	circumstances warranting application of prosecution laches here includes not only the delay
5	between the filing of the original application and the issuance of the claims, and the delay in
6	presenting the claims to the patent office for the first time, but the following combination of
7	factors asserted by Symbol and Cognex which the Court finds are strongly supported by the
8	evidence:
9	(1) Mr. Lemelson's original disclosures were made public in the 1960's and those patents expired by the early 1980's; (2) before the asserted
10	claims were filed numerous articles and patents describing machine vision and bar code scanning were published, and commercial products
11	were developed and marketed; (3) Mr. Lemelson was aware of the developments in the machine vision and bar code fields, and yet he still
12	waited; (4) Mr. Lemelson systematically extended the pendency of his applications by sitting on his rights, and sequentially filing one
13	applications by sitting on his rights, and sequentiary rinng one application at a time so that he could maintain copendency while waiting for viable commercial systems to be designed and marketed;
14	and, (5) Mr. Lemelson (and his new counsel) then drafted and prosecuted hundreds of new claims in the late 1980's and 1990's
15	specifically worded to cover those commercial systems.
16	Joint Post Trial Brief, Section III, Prosecution Laches at pp. 78-79.
17	Although Symbol and Cognex have not demonstrated that Lemelson
18	"intentionally stalled" securing the patents at issue, such a finding is not required to support
19	the defense of prosecution laches. In accord with In Re: Bogese, 303 F.3d at 1369,
20	unreasonable delay alone is sufficient to apply prosecution laches without the requirement
21	that Lemelson intended to gain some advantage by the delay. At a minimum, Lemelson's
22	delay in securing the asserted claims amounts to culpable neglect as he ignored the duty to
23	claim his invention promptly. Johnson & Johnson Assoc. Inc. v. R.E. Service Co., 285 F.3d
24	1046, 1054 (Fed. Cir. 2002). The prejudicial effect of Lemelson's failure to assert his
25	claims without unreasonable delay is that suffered by the public, and privately by Symbol
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and Cognex and others, which were denied the ability to distinguish that which is claimed by Lemelson from that which is not.

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3 More than five million United States patents have issued from 1914 through 2001. Lemelson's own exhibits demonstrate that of the 325 patents that issued in that 4 5 period with a prosecution pendency of longer than eleven years, Lemelson holds the top thirteen positions for the longest prosecutions. Some of the claims asserted by Lemelson in 6 7 this case will not expire until 2011, fifty-five years after the 1956 application was filed and forty-eight years after the application issued as a patent. The evidence adduced at trial is 8 9 abundant that during that period, machine vision and bar code technology was developed by many who had never heard of the Lemelson patents. If the defense of prosecution laches 10 does not apply under the totality of circumstances presented here, the Court can envision 11 very few circumstances under which it would. To conclude otherwise would remove from 12 the public domain subject matter arguably disclosed in Lemelson's applications, but not 13 timely claimed in a patent, and by any meaningful standard would unreasonably delay the 14 time when the public would be free to use Lemelson's claimed inventions. 15

Of course, Jerome Lemelson died in 1997, and thus cannot testify to the
circumstances resulting in the delay. Notwithstanding the testimony of Lemelson's expert
John Witherspoon that Lemelson followed "accepted and reasonable practices" in
prosecuting his claims, the record demonstrates that he did not. Decades of delay preceded
the assertion of patent claims and Lemelson has offered no adequate explanation for that
delay.

Application of the defense of prosecution laches is also warranted in this case
based upon the strong evidence adduced at trial of intervening private and public rights.
<u>Symbol</u>, 277 F3d at 1364; <u>Webster</u>, 264 U.S. at 471. Those intervening rights are
evidenced by the use of products developed, manufactured and sold by Symbol and Cognex,
as well as by third-party products, patents and articles which were explained in detail at trial

by Edward Barkan, David Collins, William Silver, Justin Testa, Arnold Reinhold, Dr. Joseph Wilder, Dr. David Allais,⁵ and Dr. Berthold Horn. 2

Prosecution laches acts to protect the public by forcing patentees to file patent claims in a timely manner. Beyond the extraordinary delay presented here, the record also shows that Lemelson effectively extended his patent monopoly by maintaining co-pendency for nearly forty years through continuation practice, and added new claims to cover commercial inventions in the market place years after his original patents had expired. This is precisely the type of prejudice to the public which the equitable doctrine of prosecution laches is designed to guard against. Pfaff v. Wells Electronics, 525 U.S. 55 at 63-64 (1998), and Symbol, 277 F.3d at 1364.

In sum, Lemelson's delay in securing the asserted patent claims is unexplained 11 and unreasonable. Plaintiff's ample evidence of intervening rights vividly illustrates the 12 type of public and private injury which can result from an unreasonable delay in prosecuting 13 patent claims. As a consequence, Lemelson's asserted claims must be deemed 14 unenforceable due to prosecution laches. 15

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IV. THE ACCUSED PRODUCTS

Symbol manufacturers and sells laser and CCD bar code readers. A bar code is an array of light and dark areas called bars and spaces which are arranged in sets of predefined patterns which, when put together in a particular sequence, encode information. 20 There are a variety of bar codes symbologies which encode information using different sets 21 of characters or bar space patterns, and different sets of decode rules. 22

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24 ⁵ Having considered Lemelson's objections to two claim charts offered by Symbol and Cognex during the examination of Dr. David Allais, Exhibits 2899A and 2899C, and Lemelson's objections to the first and 25 third columns of Exhibit 3536, and having further considered the post-trial briefs of the parties regarding Lemelson's objections, the Court finds that Lemelson's objections should be overruled and the foregoing 26 exhibits are hereby admitted.

A. Operation of the Accused Symbol Laserscan Bar Code Readers.

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The symbology rules that define valid bar code patterns are designed to enable successful scanning despite wide variations in spot, speed across the bar code, and distance between the bar code and the scanner. Just as words can be written in different sizes, colors, fonts and shapes and still be decoded or read, a bar code is read by understanding the relationship between the bars and spaces that make up the bar code rather than by matching an image of a bar code to an image stored in a memory or by measuring the individual bars and spaces.

One of the most common bar code symbologies is the Universal Product Code 9 ("UPC"), which is used to label a wide variety of consumer products. There are, however, several other bar code symbologies. Typically, a bar code is printed as black or contrasting dark-colored bars on a white or light-colored background. The background forms the 12 spaces between the dark-colored bars. 13

Each of the accused Symbol Laserscan bar code readers includes a solid state or 14 gaseous laser that generates a beam of laser light that appears as a spot. In the Symbol 15 Laserscan bar code readers, a rapidly-oscillating mirror in the device reflects the beam of 16 laser light causing it to move rapidly back and forth across the scanned surface. As a result, 17 instead of a stationary spot, the rapidly-moving beam traces a single-line back-and-forth 18 pattern at such high speed that it appears to the human eye to look like a stationary red line. 19

In the Symbol Laserscan bar code readers, the spot of laser light does not move at 20 a constant speed as it traces a line. The spot accelerates from a stop at either end of the line 21 pattern to the highest velocity in the middle of the line pattern and then decelerates to stop 22 at the opposite end of the line pattern. The speed of the laser spot varies depending on the 23 distance between the bar code reader and the object being scanned. The further away an 24 object is from the bar code reader, the faster the spot travels. Reflections from the surface 25 being scanned are received in the bar code reading unit where the reflected light, which 26

varies in intensity, impinges on a photodetector inside the bar code reading unit. The 1 photodetector in turn emits an electrical signal whose amplitude is proportional to the 2 amount of light that strikes it. The signal output of the photodetector is an analog signal 3 which is amplified and filtered, but which is not stored in memory in the Symbol Laserscan 4 devices. Instead, the filter-derivative signal is converted into a digitized bar pattern signal 5 and is sent to a counter which creates a series of counts reflecting the high and low states of 6 7 the digitized bar pattern. The output of the counter, expressed in a set of numbers, is then sent to a central processing unit which applies a set of rules or algorithms to decode the 8 counts. Each bar code symbology has its own set of rules for this decoding process. When 9 a Symbol Laserscan bar code reader successfully decodes the counts, it produces as output 10 the information encoded in the bar code. 11

Symbol's bar code readers perform this decoding process even though the
scanner's distance and orientation in relation to the bar code being scanned is neither
predetermined, fixed, or known. Because there is no comparison with a prerecorded or
reference signal, as the evidence establishes is required with respect to the Lemelson
claims, the bar code being scanned may be printed in various sizes and may be read at
varying distances and orientations.

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B. Operation of Symbol's Imaging Bar Code Readers

Symbol also manufactures and sells Symbol Imaging bar code readers which 19 contain Light-Emitting Diodes ("LEDs") to provide an external light source. A multiple 20 element lens focuses the image of the object onto a two-dimensional CCD array. When a 21 bar code is imaged, the intensity of the light received by the pixels in the CCD array varies 22 because the bars of the bar code absorb more light than the spaces. Each pixel of the CCD 23 array accumulates a charge proportional to the light level and exposure time. The electrons 24 accumulated in each pixel are sequentially sifted out and converted into an analog electrical 25 signal, whose instantaneous voltage level is proportional to the amount of light energy 26

received by the particular pixel whose charge is being read at that moment. Once again, the
central processing unit applies a set of rules or algorithms to the stored pixel values to
attempt to identify areas of interest within the captured image that might contain a bar code
image. If one or more such areas are found, then each such area is examined further to
identify the type of bar code symbology that could be present, and the appropriate decode
algorithms are applied. The output of a Symbol Imaging bar code reader is then sent to a
host computer that can retrieve information related to the items scanned.

C. Accused Cognex Products

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Explanation of the machine vision systems developed and sold by Cognex was 9 provided principally by the testimony of the Founder of Cognex, William Silver, and by the 10 head of Cognex' Surface Inspection Division, Dr. Markku Jaaskelainen. Cognex systems 11 utilize sensors, and analog to digital converters that transform light captured by each pixel 12 in the sensor into a gray scale digital image (an array of numbers that correspond to the 13 brightness of each pixel) and proprietary computer software programs that implement 14 statistical pattern recognition techniques to find, identify and inspect an object in the gray 15 scale digital image. Cognex systems have the capability to locate the particular object in a 16 digital image containing many other objects, and to find and read serial numbers, bar codes 17 and other symbologies. Additionally, Cognex systems measure dimensions and detect 18 surface flaws and defects. The information generated by Cognex systems is used to control 19 a manufacturing process by rejecting non-conforming parts or guiding robots to retrieve and 20 assemble parts. 21

Since there are always substantial variations in the location and orientation of an object presented to Cognex systems, unlike Lemelson's proposed systems which must use pre-positioning, Cognex systems do not. Indeed, objects are rarely if ever presented at Cognex systems in a predetermined or fixed location or orientation. The very purpose of using machine vision is to find an object wherever it may be in the field of view.

Cognex' Modular Vision Systems Division develops, manufactures and sells 1 three product lines known as MVS 8000, Checkpoint and InSight for machine vision 2 applications involving discreet objects. The core of Cognex' MVS product family is a 3 library or proprietary general purpose software algorithms or "vision tools" that process and 4 analyze digital gray scale images using microprocessors enhanced to perform more than a 5 billion calculations per second. The software tools are programmed and combined by 6 Cognex customers to optimize object recognition and reporting depending on the operating 7 environment and the task at hand. MVS products are generally sold, either directly or 8 through system integrators, to manufacturers of capital equipment and machinery used in 9 the production of semiconductors, circuit boards, pharmaceuticals, automobiles, medical 10 devices, electronics, and packaging. 11

Cognex' Checkpoint products are built "on top of" the MVS 8000 software
library and require less programming expertise. Checkpoint products are targeted to endusers, as opposed to original equipment manufacturers or system integrators, and typically
are used to guide robots handling automotive parts, verify cell phone assembly, and
generally inspect consumer and medical products and product packaging.

Cognex' InSight product family consists of a line of machine vision systems that
include a CCD sensor with a built-in digital signal processor and general purpose software
algorithms that are functionally similar to the general purpose software library of the MVS
8000 line. InSight products are used in a variety of applications such as inspecting bottle
caps and contents, and reading semiconductor wafer identification symbols.

Cognex' Surface Inspection Systems Division ("SISD") manufactures equipment
 and software intended for continuous objects, such as paper, steel, and other materials
 manufactured in webs or rolls or sheets. These systems are capable of detecting, locating,
 counting, measuring, and classifying potential defects wherever they may appear on a fast-

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moving sheet or roll of material. This particular system was demonstrated to the Court at trial being used in connection with the manufacture of paper products.

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In utilizing Cognex systems, an object is presented to an imaging sensor by a 3 conveyor or other transport mechanism and a programmable controller or a photodetector 4 signals the sensor to take one or more images of the object as it arrives before or passes by 5 the sensor. Illumination sources may be utilized to accentuate the features of the object 6 based on its shape and surface characteristics and to determine how the object reflects light. 7 Users of Cognex products generally use CCD sensors to capture a run-time image of a 8 scene that may or may not contain an object of interest. Each pixel in a CCD array 9 measures brightness at a point in the image by accumulating a charge proportional to the 10 amount of light falling on it over a brief period (typically 1/30th of a second). This 11 produces a stair-step signal where voltage corresponds to brightness and each step 12 corresponds to a particular pixel. The voltage of each pixel is measured at a sample point 13 and a flash analog to digital converter assigns a number representing the brightness/voltage 14 or "gray scale" level, of each pixel at the sample point. The digital gray scale values of the 15 pixels are stored in random access memory for analysis and processing. Cognex utilizes 16 proprietary or patented software algorithms to process and analyze digital images in order to 17 find, measure, inspect and identify objects despite problems created by the variable 18 appearance and unknown location and orientation of objects in run-time images. 19

As with the products manufactured by Symbol, Cognex machine vision systems do not analyze objects in known or predetermined positions. Cognex machine vision systems either process and analyze an entire digital image or a smaller two-dimensional area in which an object is expected to be found. Cognex systems employ image analysis software algorithms to analyze a processed gray scale image to find the image of an object of interest or to inspect and measure objects. Cognex also manufactures several software tools for interpreting bar code and two-dimensional symbologies and calibration products

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which make it possible to transform image or pixel units into real-world units such as centimeters so that information concerning the location or dimensions of an object can be used by automation and robotic equipment.

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V. AN EFFECTIVE FILING DATE

Before assessing the claims and counterclaims advanced respectively by Symbol, Cognex and Lemelson, it is necessary to determine the effective filing date of the claims-insuit. For a claim in a later-filed application to be entitled to the filing date of an earlier application under 35 U.S.C. § 120, the disclosure of the earlier application must comply with the requirements of 35 U.S.C. § 112, ¶ 1. <u>Reiffin v. Microsoft Corp.</u>, 214 F.3d 1342, 1346 (Fed. Cir. 2000). Section 112, ¶ 1 requires, <u>inter alia</u>, that the claims be enabled and described. The effective filing date determines the scope of the prior art. Thus, if Lemelson is entitled to a 1963 filing date instead of a 1956 filing date, intervening art with an effective dates between 1956 and 1963 will become invalidating prior art to the claim.

Lemelson contends that 68 of the claims in suit are entitled to priority from the 15 1954 Application in accord with 35 U.S.C. § 120. Specifically, the common specification 16 claims priority under 35 U.S.C. § 120 to Lemelson's 1963 Application, which in turn claims 17 priority to Lemelson's 1956 and 1954 Applications. The Court finds, however, that 18 Lemelson has failed to prove that the 1963 Application is a continuation-in-part of the 1954 19 Application as required under § 120, nor has Lemelson demonstrated the relationship of the 20 1954 Application to the 1963 Application as required by Patent Office Rule 78(a). As a 21 consequence, Lemelson cannot rely on the 1954 Application as intrinsic evidence in 22 connection with the construction of claim terms. Although Lemelson's 1963 Application is 23 characterized by Lemelson as a continuation-in-part of the 1954 Application, the asserted 24 relationship is not revealed by the 1963 Application. In re: Daniels, 144 F.3d 1452, 1454-25 57 (Fed. Cir. 1998). As a result, the 1954 Application and its prosecution history, cannot be 26

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U.S.C. § 120.

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VI. CLAIM CONSTRUCTION

Claim construction of the patents-in-suit is relevant to both validity and infringement. The role of claim construction is not to limit or broaden the claims, but to define, as a matter of law, the invention that has been patented. Netword, LLC, v. Centraal Corp., 242 F.3d 1343, 1352 (Fed. Cir. 2001). Construing claims must focus on the language of the claims themselves "for it is that language that the patentee chose to use to particularly point out and distinctively claim the subject matter which the patentee regards 12 as his invention." Brookhill-Wilk 1 LLC v. Intuitive Surgical, Inc., 326 F.3d 1215, 1218 (Fed. Cir. 2003). 14

considered as part of the chain of applications leading to the patents-in-suit and cannot be

considered in construing the claims at issue. The Court therefore finds that Lemelson

claims-in-suit are not entitled to priority from Lemelson's 1954 Application under 35

"To construe a patent claim, a court first analyzes the intrinsic evidence of 15 record-the claims and written description of the patent itself, and, if in evidence, the 16 prosecution history." Biovail Corp. Intn'l v. Andrx Pharms., Inc., 239 F.3d 1297, 1300 17 (Fed. Cir. 2001). Where the meaning of a disputed claim term is clear from the intrinsic 18 evidence, it cannot be altered by external evidence or testimony and competitors are entitled 19 to rely on the public record of the patent. Key Pharms. v. Hercon Labs. Corp., 161 F.3d 20 709, 716-17 (Fed. Cir. 1998). In construing claims, the Court gives claim terms their 21 ordinary meaning as understood by a person of ordinary skill in the art. Id. Terms in a 22 claim are not given their ordinary meaning, however, where it appears from the patent and 23 file history that the terms were used differently by the patentee, <u>Southwall Techs., Inc., v.</u> 24 Cardinal IG Co., 54 F.3d 1570, 1578 (Fed. Cir. 1995), or when the ordinary meaning of the 25 term "deprives the claim of clarity such that there is 'no means by which the scope of the 26

claim may be ascertained from the language used.'" <u>Bell Atlantic Network Services, Inc.</u>, v. Covad Communications Group, Inc., 262 F.3d 1258, 1268 (Fed. Cir. 2001).

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Lemelson maintains that the Court cannot begin to address claim construction or 3 written description until it has defined a person of ordinary skill in the art with regard to the 4 invention at issue. Weather Engineering Corp. v. United States, 614 F.2d 281, 287 (Ct. Cl. 5 1980). The relevant inquiry with regard to claim construction is how a person of ordinary 6 skill in the art would understand the claim terms at the time of the invention. See Markman 7 v. Westview Instruments, Inc., 52 F.3d 967, 986 (Fed. Cir. 1995). A person of ordinary 8 skill in the art is not an actual person, but a hypothetical construct and "skill in the art" is to 9 be determined as of the time of the invention, which may be the filing date of a patent 10 application. Leggett and Platt, Inc. v. Hickory Springs Manufacturing Co., 285 F.3d 1353, 11 1357 (Fed. Cir. 2002). Many factors contribute to determining the characteristics of this 12 hypothetical person of ordinary skill in the art including the educational level of the 13 inventor, the educational level of those who worked in the relevant industry, the 14 sophistication of the technology involved in the invention, the various prior art approaches 15 employed regarding the problem allegedly solved by the invention, the types of problems 16 encountered in the art, and the rapidity with which innovations are made in the field. See 17 Custom Accessories, Inc. v. Jeffrey-Allan Industries, Inc., 807 F.2d 955, 962-63 (Fed. Cir. 18 1986). 19

The testimony of Dr. Horn on behalf of Symbol and Cognex, and by Dr. Williamson on behalf of Lemelson focused in part on the definition of a person of ordinary skill in the art for purposes of this case. Essentially, Dr. Williamson expressed the opinion that a person of ordinary skill in the art pertinent to the asserted patents in this case would be people skilled in three different arts: (1) scanning; (2) computers and data analysis; and (3) manufacturing or production engineering. The Court, however, finds the testimony of Dr. Horn on this issue to be the more persuasive. Specifically, Dr. Horn describes the

person of ordinary skill in the art as an electronic engineer with about two years experience 1 2 in signal processing and television electronics. As Dr. Williamson and Dr. Grindon acknowledged on behalf of Lemelson, that particular person of ordinary skill in the art 3 could not practice the inventions claimed by Lemelson. 4 Because a patentee's specific use of a term is dispositive, "claim language must 5 always be construed in light of the specification." MSM Invs. Co. v. Carolwood Corp., 259 6 F.3d 1335, 1339 (Fed. Cir. 2001). The relevant figures and drawings and the patent abstract 7 also assist in determining the proper meaning of the claims. In Altiris, INc. v. Symantic 8 Corp., 318 F.3d 1363, 1370 (Fed. Cir. 2003), the Federal Circuit explained conditions under 9 which a claim term will not carry its ordinary meaning: 10 First, the claim term will not receive its ordinary meaning if the 11 patentee acted as his own lexicographer and clearly set forth a definition of the disputed claim term in either the specification or 12 prosecution history. Second, a claim term will not carry the ordinary meaning if the intrinsic evidence shows that the patentee distinguished 13 that term from prior art on the basis of a particular embodiment, expressly disclaims subject matter, or describe a particular embodiment 14 as important to the invention. Third. . .a claim term will not have its ordinary meaning if the term "chosen by the patentee so deprives the 15 claim of clarity" as to require resort to other intrinsic evidence for a definite meaning. 16 Furthermore, claims must be read in the context of the invention that is described 17 in the specification which acts as a dictionary where it expressly defines terms used in the 18 claims or when it defines terms by implication. Bell Atlantic Network Services, Inc. v. 19 Covad Communications Group, 262 F.3d at 1267. The prosecution history also plays a 20 useful role in claim construction because it limits the interpretation of the claim terms so as 21 to exclude any interpretation that is disclaimed during the prosecution. Southwall Techs. v. 22 Cardinal IG Co., 54 F.3d at 1576. 23 Lemelson maintains that Symbol and Cognex avoid addressing the "features" of 24 the inventions defined by Lemelson's asserted claims, and instead focus on a narrow and 25 incorrect interpretation of the specific "circuits and structure" shown in selected portions of 26

Lemelson's specifications. Lemelson insists, however, that as explained by the testimony of Dr. Hunt, Lemelson's disclosure recites method claims and defines pioneering methods.

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The principal expert called by Symbol and Cognex on the matter, however, 3 explains the disclosure of the patents-in-suit far differently than Dr. Hunt. According to 4 Dr. Horn, the Lemelson disclosure provides for "a very specific way of using television 5 images to compare images of objects along scan lines and to make certain kinds of 6 dimensional measurements along scan lines." In essence, Lemelson's disclosure provides 7 for an analog video signal prerecorded on magnetic tape of a "standard" object which is 8 compared point-by-point with a "test" video signal of a subsequently scanned object after 9 passing them through various circuits called gating, clipping and logic circuits. Moreover, 10 according to Dr. Horn, the analog video signals generated throughout the Lemelson 11 disclosure must be representative of the image or images in the scanning field being 12 inspected. If the test object is not positioned at the same distance, location and orientation 13 with respect to the camera, the expected "inflections" will not occur in the gated portion of 14 the signal where expected. Thus, according to Dr. Horn, pre-positioning is essential under 15 the Lemelson disclosure. 16

The Court rejects Lemelson's argument that Dr. Horn's description of the 17 scanning system described in the common specification was overly general or non-specific. 18 The Court finds that Dr. Horn provided persuasive testimony regarding what is described by 19 Lemelson's common specification including the requirement of pre-positioning; the 20 arrangement of synchronization, gating and video signals on a multi-track magnetic 21 22 recording medium; the method of clipping and comparing inflections; the use of location codes to identify inflections; and the use of a subtractor circuit to determine the distance 23 between two inflections in a single line. 24

The testimony of Dr. Horn establishes that in order to practice Lemelson's invention, the patents-in-suit require that the object being scanned must be "pre-

positioned"-that is located at a known distance, location and orientation-relative to the
camera. The requirement of pre-positioning is repeated throughout the specification and,
indeed, as argued by Symbol and Cognex, the Lemelson specification never describes an
embodiment without pre-positioning. This requirement of pre-positioning alone places the
products manufactured and sold by Symbol and Cognex outside the scope of Lemelson's
invention.

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The testimony of Lemelson's expert, Dr. Hunt, that one or more persons of ordinary skill in the art reading Lemelson's patents could have constructed a non-prepositioned scanning system misses the mark, because the specification itself specifies that pre-positioning is required and is controlling. <u>Netword LLC v. Centraal Corp.</u>, 242 F.3d at 1352. The specification for the patents-in-suit make clear that the "invention" does not include scanning without "pre-positioning." Thus, scanning without pre-positioning is outside the reach of the claims of the Lemelson patent. <u>Scimed Life Systems, Inc. v.</u> <u>Advanced Cardiovascular Systems, Inc. 242 F.3d 1337, 1341 (Fed. Cir. 2001).</u>

Additionally, the intrinsic evidence establishes that Lemelson's invention 15 involves scanning by the use of a television or video camera and not scanning by means of a 16 laser or CCD camera employed by Symbol and Cognex products. Indeed, the evidence 17 clearly establishes that neither laser nor CCD cameras existed in 1956 or 1963, and that no 18 one or ordinary skill in the art would have or could have described such scanners at that 19 time. Moreover, all of the asserted claims required that the video signals be analyzed in a 20 specific manner in specific ways described in the specification which are not common to the 21 products manufactured and sold by Symbol or Cognex. Although several of the asserted 22 claims require "computer analyzing" or "processing," the term "computer" employed by 23 Lemelson clearly refers to a computing circuit capable of performing a mathematical task 24 such as subtraction, not a general purpose, programmable computer. In sum, the Court 25 adopts the claim construction advanced by Symbol and Cognex. 26

VII. THE ASSERTED CLAIMS ARE NOT INFRINGED

"Determining whether a patent claim has been infringed involves two steps: (1) 2 claim construction to determine the scope and meaning of the claims asserted to be 3 infringed, following by (2) a determination of whether the properly construed claim 4 encompasses the accused method." Robotic Vision Systems, Inc. v. View Engineering, 5 Inc., 189 F.3d 1370, 1374 (Fed. Cir. 1999). The Court's previous findings regarding the 6 structure and operation of products manufactured and sold by Symbol and Cognex, and the 7 claim constructions drawn by the Court from the evidence adduced at trial, establishes that 8 the accused products of Symbol and Cognex do not infringe any of the Lemelson patents-9 in-suit. Symbol and Cognex products do not work like anything disclosed and claimed by 10 Lemelson, nor do those products embody each and every limitation of any claim asserted by 11 Lemelson. 12

Symbol manufactures and sells a variety of laser and CCD bar code readers 13 which are fundamentally different from the scanning system described and claimed in the 14 Lemelson patents-in-suit. Most importantly, Symbol's bar code readers do not need to be 15 pre-positioned at a known distance or aligned at a fixed attitude relative to a bar code. The 16 testimony of Mr. Swartz and Mr. Schuessler establish that Symbol's bar code readers do not 17 use a video scanning device to scan and generate video signals and the signals generated by 18 Symbol's bar code readers are not representative of the image in the scanning field being 19 inspected. Symbol's bar code readers operate on the entire analog signal generated as a 20 result of scanning, not merely a gated predetermined portion of that signal. Neither do 21 Symbol bar code readers use clipping or thresholding to ascertain inflections. In sum, 22 Lemelson's patented system could not be used to read a bar code, nor does the Lemelson 23 common specification reveal any teaching or suggestion of catching information or 24 identifying an article by the decoding of encoded information. 25

Similarly, Cognex systems use proprietary software algorithms that 1 mathematically manipulate the stored gray-scale values and implement statistical pattern 2 recognition techniques over extended two-dimensional areas to find, identify and inspect an 3 object or feature wherever it may be. Cognex systems do not compare analog or digital 4 signals, and they do not use fixed clippers to look for inflections as taught in the Lemelson 5 common specification. The trial evidence demonstrated that none of the accused Cognex 6 machine vision or Symbol bar code products uses, for example, prepositioning, analog 7 gating or video signals, fixed-threshold clippers, multi-track magnetic media, point-to-point 8 comparison of "inflections" and analog video signals or beaming-scanning TV cameras. 9 Thus, Lemelson has failed to prove infringement by Symbol and Cognex products. Indeed, 10 according to the persuasive testimony of Dr. Allais, even under Lemelson's claim 11 construction, the use of Symbol products does not infringe any claim. 12

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VIII. THE WRITTEN DESCRIPTION REQUIREMENT

Title 35, U.S.C. § 112, ¶ 1 requires in pertinent part that "[t]he specifications 15 shall contain a written description of the invention." This requirement ensures that a 16 patentee actually invented what he subsequently claims. "The purpose of the 'written 17 description' requirement is broader than merely to explain how to 'make and use': the 18 applicant must also convey with reasonable clarity to those skilled in the art, that as of the 19 filing date sought, he or she was in possession of the invention." <u>Vas-Cath, Inc. v.</u> 20 Mahurkar, 935 F.2d 1555, 1563-64 (Fed. Cir. 1991). "The articulation of the written 21 description requirement in terms of 'possession' is especially meaningful when a patentee is 22 claiming entitlement to an earlier filing date under 35 U.S.C. §§ 119 or 120." Enzo 23 Biochem, Inc. v. Gen-Prob, Inc., 323 F.3d 956 at 969 (Fed. Cir. 2002). The written 24 description requirement for a claim must be satisfied by the disclosure in the patent 25 containing the claim. <u>Reiffin</u>, 214 F.3d at 1346. Moreover, where a patentee seeks to rely 26

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on an earlier application to provide an effective filing date for a claim under Section 120, the disclosure of the earlier application must independently describe the claimed invention to satisfy the written description requirement. <u>Reiffin</u> 214 F.3d at 1346.

However, because this Court has rejected Lemelson's construction of critical
terms utilized in the asserted claims, including "scanning," "analyzing," "computer
analyzing/computer processing," "variations," "digitizing," and "memory," in favor of the
the construction advocated by Symbol and Cognex, the Court finds it unnecessary to
consider whether the Lemelson specification contains a viable written description of the
invention as required by § 112, ¶ 1.

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IX. ENABLEMENT

In return for receiving the right to exclude others from making, using or selling
 an invention for a specified period of time, 35 U.S.C. § 112 requires that an inventor file a
 specification that contains:

...a written description of the invention, and of the manner and process of making and using it, in such full, clear, concise and exact terms as to enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the same, and shall set forth the best mode contemplated by the inventor of carrying out his invention.

If the specification fails to fulfill each of the requirements of Section 112, the
inventor must add new matter to the specification which in turn causes the inventor to lose
the original filing date. <u>Reiffin</u>, 214 F.3d at 1345-46. Symbol and Cognex contend that
Lemelson failed to provide sufficient information to enable a person of ordinary skill in the
art to make the scanning system he disclosed regardless of whether the Court adopts
Lemelson's construction of claims or those of Symbol and Cognex. Indeed, Symbol and
Cognex insists that no one has ever built a "Lemelson system" because no one could do so.

Further, Symbol and Cognex argue that the claims are not enabled because the person of
 ordinary skill in the art is not really one person, but three separate people.

As noted <u>infra</u>, the Court accepts as persuasive the analysis of Dr. Berthold Horn and Dr. David Allais that the person of ordinary skill in the art for purposes of the patentsin-suit is an electronic engineer with about two years experience in signal processing and television electronics. Lemelson's own experts, Dr. Williamson and Dr. Grindon, acknowledge that such a person could not practice the inventions claimed by Lemelson. As a result, the Court concurs with the argument of Symbol and Cognex that the patent claims at issue must be held invalid for lack of enablement under 35 U.S.C. § 112.

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X. ANTICIPATION

Symbol and Cognex contend that the asserted claims of the '918 and '626 patents
are invalid under 35 U.S.C. § 102 because they were "anticipated" by other prior art. "'To
anticipate a claim, a prior art reference must disclose every limitation of the claimed
invention, either explicitly or inherently." <u>Atlas Powder Co. v. IRECO, Inc.</u>, 190 F.3d
1342, 1346 (Fed. Cir. 1999) (quoting <u>In re: Schreiver</u>, 128 F.3d 1473, 1477 (Fed. Cir.
1997)).

Symbol and Cognex bear the burden of demonstrating anticipation by clear and
convincing evidence. See In Re: Cruciferous Sprout Litigation, 301 F.3d 1343, 1349 (Fed.
Cir. 2002). The Court finds that Symbol and Cognex have failed through the testimony of
Dr. Horn or other evidence to establish that the asserted claims of the '918 and '626 patents
were anticipated and thus invalid under 35 U.S.C. § 102.

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XI. INEQUITABLE CONDUCT

Symbol and Cognex further contend that the Lemelson patents are unenforceable
as a result of the conduct of one of Lemelson's attorneys, Neil Markva, who allegedly
breached his duty of candor and good faith in dealing with the Patent Office during the
prosecution of the applications that led to the patents-in-suit.

Specifically, Symbol and Cognex contend that Mr. Markva made an affirmative 6 7 misstatement and withheld material information from the Patent Office in connection with claims copied from U.S. Patent 3,218,389 ("the Reed patent"). Symbol and Cognex 8 maintain that as a result of this inequitable conduct, claims 18-22 of the '918 patent were 9 issued to Lemelson in 1985, even though the Board of Appeals had held in 1972 that 10 Lemelson was not entitled to the claims because his specification did not have an adequate 11 written description of them and that the claims had already been patented by Reed in 1965 12 and passed into the public domain in 1982 when the Reed patent expired. 13

Symbol and Cognex argue that Markva's intentional misstatements and withholding of material information about the copied Reed claims led to the issuance of U.S. Patent 4,511,918, and insist that the '918 patent should thus be held unenforceable due to the inequitable conduct of Lemelson's attorney. Moreover, Symbol and Cognex insist that Markva's inequitable conduct in connection with the Reed claims renders eight of the patents-in-suit issued as continuations of the '918 patent itself unenforceable as well.

Second, Symbol and Cognex allege inequitable conduct on the part of Lemelson
through his attorney, Mr. Markva, in connection with the '626 patent based on alleged
misrepresentations to the Patent Office Examiner Britton regarding the 1972 Opinion of the
Board of Appeals.

To support a claim of inequitable conduct, Symbol and Cognex must establish by clear and convincing evidence that Lemelson, through his attorney, Neil Markva, materially breached the duty of candor and good faith owed to the Patent Office, and that they did so with an intent to deceive. <u>Critikon, Inc. v. Becton Dickinson Vascular Access, Inc.</u>, 120 F.3d 1253, 1256 (Fed. Cir. 1997).

In evaluating the arguments made by Symbol and Cognex, the Court has
determined it appropriate to deny Plaintiffs' Motion to Strike and to consider the deposition
testimony of Patent Office Examiner Britton and Attorney Neil Markva, including
Markva's deposition testimony given in <u>Mitsubishi Elec. Co. v. Lemelson</u>, No. CV-N-93380 (D. Nev.). The Court finds that Symbol and Cognex have not sustained by clear and
convincing evidence their burden of establishing inequitable conduct regarding the '918 and
'626 patents.

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XII. EXCEPTIONAL CASE UNDER SECTION 285

Lemelson contends that the conduct of Plaintiffs Symbol and Cognex and their counsel "exceeded reasonable litigation tactics with a strategy of obfuscation" such as to warrant a declaration by this Court that Lemelson is entitled to an award of attorneys' fees under 35 U.S.C. § 285. Title 35, U.S.C. § 285 provides for an award of reasonable attorneys' fees to a prevailing party in an exceptional case.

To characterize this case as "exceptional" in terms of the exhaustive history of the Lemelson patents-in-suit and the equally exhaustive record adduced at trial, including pre- and post-trial briefing, would be an understatement. Here, however, Lemelson is not the prevailing party nor does the Court find any other basis for declaring this case "exceptional" as the term is used in § 285. Therefore, the Court rejects Lemelson's claim for an award of attorneys' fees under 35 U.S.C. § 285.

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XIII. CONCLUSION

Having concluded that Lemelson's patent claims are unenforceable under the equitable doctrine of prosecution laches; that the asserted patent claims as construed by the Court are not infringed by Symbol or Cognex because use of the accused products does not satisfy one or more of the limitations of each and every asserted claim; and that the claims are invalid for lack of written description and enablement even if construed in the manner urged by Lemelson, the Court finds that Judgment should be entered in favor of Plaintiffs Symbol Technologies, Inc., Accu-sort Systems, Inc., Intermec Technologies Corp., Metrologic Instruments, Inc., PSC Inc., Teklogix Corp. and Zebra Technologies Corp. and Cognex Corp., and against Defendant Lemelson Medical, Education & Research Foundation, Limited Partnership on Plaintiffs' Complaint for Declaratory Judgment pursuant to 28 U.S.C. § 2201(a). IT IS SO ORDERED.

DATED: January 23, 2004

PHILIP M. PRO Chief Judge

United States Patent [19]

Lemelson

[54] METHOD AND SYSTEMS FOR SCANNING AND INSPECTING IMAGES

- [76] Inventor: Jerome H. Lemelson, 48 Parkside Dr., Princeton, N.J. 08540
- [*] Notice: The portion of the term of this patent subsequent to Apr. 16, 2002 has been disclaimed.
- [21] Appl. No.: 500,288
- [22] Filed: Mar. 27, 1990

Related U.S. Application Data

[60] Continuation of Ser. No. 906,969, Sep. 15, 1986, which is a continuation of Ser. No. 723,183, Apr. 15, 1985, Pat. No. 4,660,086, which is a continuation of Ser. No. 394,946, Jul. 2, 1982, Pat. No. 4,511,918, which is a division of Ser. No. 13,608, Feb. 16, 1979, Pat. No. 4,338,626, which is a division of Ser. No. 778,331, Mar. 16, 1977, Pat. No. 4,148,061, which is a continuation of Ser. No. 254,710, May 18, 1972, Pat. No. 4,118,730, which is a continuation-in-part of Ser. No. 267,377, Mar. 11, 1963, abandoned, which is a continuation-in-part of Ser. No. 3,801,379, and a continuation of Ser. No. 477,467, Dec. 24, 1954, abandoned.

			106N 7/18
[52]	U.S. cl.	358/93	; 358/106;

- 356/380

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[11] Patent Number: 4,979,029 [45] Date of Patent: * Dec. 18, 1990

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Primary Examiner-John K. Peng

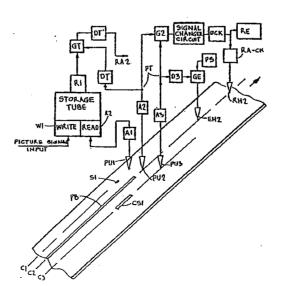
[57]

Attorney, Agent, or Firm-Gerald D. Hosier; Steven G. Lisa

ABSTRACT

An automatic scanning apparatus and method for detecting the presence of one or more objects in an image field under investigation or inspection. Electra-optical scanning means, such as a television camera, is employed to scan an image field and generate output electrical signals which vary in accordance with variations in the optical characteristics of the matter and objects in the image field scanned. Such signals are computer processed and analyzed to generate coded electrical signals which define optical characteristics of portion of the image field scanned, such as objects or the images of objects scanned, their shape, color of a combination of color and shape. Electronic means is provided to generate further coded electrical signals which indicate the presence of one or more objects in the image field scanned and may be used to effect intelligent indications thereof, to control one or more devices such as a motor or motors, and/or to provide information for computational purposes to be processed and utilized by a computer. In one form, the shape of an object or objects is detected and coded signals generated are employed to effect a comparison of such shape with information relating to the shapes of known objects to identify the object or objects scanned. In another form, the color or surface characteristics of an object is detected and resulting signals indicative thereof are compared with information derived from a memory to identify either the object or its color or surface characteristics. In a third form both shape and color are detected and compared with recorded information for identification purposes.

16 Claims, 13 Drawing Sheets



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3 UNITED STATES DISTRICT COURT DEPUTY 5 DISTRICT OF NEVADA 6 *** 7 SYMBOL TECHNOLOGIES, INC., et al.,) 8 Plaintiffs, CV-S-01-701-PMP (RJJ) 9 v. 10 LEMELSON MEDICAL, EDUCATION & RESEARCH FOUNDATION, ILIMITED PARTNERSHIP, 11 LIMITED CORPORATION, 12 Defendant. 13 COGNEX CORPORATION, 14 . 15 LEMELSON MEDICAL, EDUCATION & RESEARCH FOUNDATION, ILIMITED PARTNERSHIP, 15 LEMELSON MEDICAL, EDUCATION & CV-S-01-702-PMP (RJJ) 16 & RESEARCH FOUNDATION, ILIMITED PARTNERSHIP, 17 Defendant. 18 TELXON CORPORATION, ILIMITED PARTNERSHIP, ILIMIT	2		CLERK US DISTRICT COURT DISTRICT OF NEVADA
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<pre> **** SYMBOL TECHNOLOGIES, INC., et al.,) Plaintiffs, CV-S-01-701-PMP (RJJ) V. LEMELSON MEDICAL, EDUCATION & RESEARCH FOUNDATION, LIMITED PARTNERSHIP, V. LEMELSON MEDICAL, EDUCATION & RESEARCH FOUNDATION, LIMITED PARTNERSHIP, Defendant. TELXON CORPORATION, LEMELSON MEDICAL, EDUCATION & RESEARCH FOUNDATION, LIMITED PARTNERSHIP, TELXON CORPORATION, LEMELSON MEDICAL, EDUCATION & RESEARCH FOUNDATION, LIMITED PARTNERSHIP, Defendant. TELXON CORPORATION, LIMITED PARTNERSHIP, LEMELSON MEDICAL, EDUCATION & RESEARCH FOUNDATION, LIMITED PARTNERSHIP, JDefendant. JUDGMENT </pre>	4		S DISTRICT COURT
6 SYMBOL TECHNOLOGIES, INC., et al.,) 7 SYMBOL TECHNOLOGIES, INC., et al.,) 8 Plaintiffs, 9 V. 10 LEMELSON MEDICAL, EDUCATION & RESEARCH FOUNDATION,	5		
8 Plaintiffs, CV-S-01-701-PMP (RJJ) (Base File) 9 v. 10 LEMELSON MEDICAL, EDUCATION & RESEARCH FOUNDATION, 11 LIMITED PARTNERSHIP, 12 Defendant. 13 COGNEX CORPORATION, 14 Plaintiff, v. LEMELSON MEDICAL, EDUCATION & RESEARCH FOUNDATION, 14 Plaintiff, v. Defendant. 15 LEMELSON MEDICAL, EDUCATION & RESEARCH FOUNDATION, 16 JETELXON CORPORATION, 17 Defendant. 18 TELXON CORPORATION, 20 Plaintiff, v. CV-S-01-703-PMP (RJJ) 21 v. 22 LEMELSON MEDICAL, EDUCATION & RESEARCH FOUNDATION, 23 LIMITED PARTNERSHIP, 24 Defendant. 25 JUDGMENT	6		* * *
9 v. 10 LEMELSON MEDICAL, EDUCATION & RESEARCH FOUNDATION, IIMITED PARTNERSHIP, 11 LIMITED PARTNERSHIP, 12 Defendant. 13 COGNEX CORPORATION, 14 Plaintiff, v. LEMELSON MEDICAL, EDUCATION 16 & RESEARCH FOUNDATION, 17 LEMELSON MEDICAL, EDUCATION 18	7		
10 LEMELSON MEDICAL, EDUCATION & RESEARCH FOUNDATION, IIMITED PARTNERSHIP, 11 LIMITED PARTNERSHIP, 12 Defendant. 13 COGNEX CORPORATION, 14 Plaintiff, 15 LEMELSON MEDICAL, EDUCATION & RESEARCH FOUNDATION, 16 KRESEARCH FOUNDATION, UMITED PARTNERSHIP, 17 Defendant. 18	8	Plaintiffs,) CV-S-01-701-PMP (RJJ)) (Base File)
11 & RESEARCH FOUNDATION, LIMITED PARTNERSHIP, 12 Defendant. 13 COGNEX CORPORATION, 14 Plaintiff, 15 LEMELSON MEDICAL, EDUCATION 16 & RESEARCH FOUNDATION, 17 LEMELSON MEDICAL, EDUCATION 18	9)
13 COGNEX CORPORATION, 14 Plaintiff, v.) 15 LEMELSON MEDICAL, EDUCATION 16 & RESEARCH FOUNDATION, 17 Defendant. 18		& RESEARCH FOUNDATION,	
14 Plaintiff, 15 v. 16 LEMELSON MEDICAL, EDUCATION & RESEARCH FOUNDATION, & LIMITED PARTNERSHIP, 17 Defendant. 18	12	Defendant.)
15 v. 16 LEMELSON MEDICAL, EDUCATION & RESEARCH FOUNDATION, LIMITED PARTNERSHIP, CV-S-01-702-PMP (RJJ) 17 Defendant. 18 TELXON CORPORATION, 19 TELXON CORPORATION, 20 Plaintiff, 21 v. 22 LEMELSON MEDICAL, EDUCATION & RESEARCH FOUNDATION, 23 LIMITED PARTNERSHIP, 24 Defendant. 25 JUDGMENT	13	COGNEX CORPORATION,)
LEMELSON MEDICAL, EDUCATION & RESEARCH FOUNDATION, LIMITED PARTNERSHIP, 17 Defendant. 18 TELXON CORPORATION, 20 Plaintiff, 21 V. 22 LEMELSON MEDICAL, EDUCATION & RESEARCH FOUNDATION, 23 LIMITED PARTNERSHIP, 24 Defendant. 25 JUDGMENT	14)))
17 Defendant. 18		LEMELSON MEDICAL, EDUCATION & RESEARCH FOUNDATION, LIMITED PARTNERSHIP,))) CV-S-01-702-PMP (RJJ))
19 TELXON CORPORATION,) 20 Plaintiff, 21 v. 22 LEMELSON MEDICAL, EDUCATION & RESEARCH FOUNDATION, LIMITED PARTNERSHIP, 23 Defendant. 24 Defendant.	17)
 Plaintiff, V. LEMELSON MEDICAL, EDUCATION & RESEARCH FOUNDATION, LIMITED PARTNERSHIP, Defendant. JUDGMENT 	18))
 v. LEMELSON MEDICAL, EDUCATION LEMELSON MEDICAL, EDUCATION LIMITED PARTNERSHIP, Defendant. JUDGMENT 	19	TELXON CORPORATION,)
 LEMELSON MEDICAL, EDUCATION & RESEARCH FOUNDATION, LIMITED PARTNERSHIP, Defendant. JUDGMENT 	20	Plaintiff,)
 LEMELSON MEDICAL, EDUCATION & RESEARCH FOUNDATION, LIMITED PARTNERSHIP, Defendant. JUDGMENT 	21) CV-S-01-703-PMP (RJJ)
 LIMITED PARTNERSHIP, Defendant. JUDGMENT 	22	& RESEARCH FOUNDATION,))
25 JUDGMENT	23	LIMITED PARTNERSHIP,)
JUDGMENT	24	Defendant.)
26	25	JUI	DGMENT
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Having concluded that Lemelson's patent claims are unenforceable under the equitable doctrine of prosecution laches; that the asserted patent claims as construed by the Court are not infringed by Symbol or Cognex because use of the accused products does not satisfy one or more of the limitations of each and every asserted claim; and that the claims are invalid for lack of written description and enablement even if construed in the manner urged by Lemelson,

IT IS ORDERED that JUDGMENT is hereby entered in favor of Plaintiffs
 Symbol Technologies, Inc., Accu-sort Systems, Inc., Intermec Technologies Corp.,
 Metrologic Instruments, Inc., PSC Inc., Teklogix Corp. and Zebra Technologies Corp. and
 Cognex Corp., and against Defendant Lemelson Medical, Education & Research
 Foundation, Limited Partnership on Plaintiffs' Complaint for Declaratory Judgment
 pursuant to 28 U.S.C. § 2201(a).

DATED: January 23, 2004

PHILIP M. PRC Chief Judge