

APPENDIX A**'120 PATENT**

CLAIMS	TERM/PHRASE	MEANING
1, 5	“a linked list to store and provide access to records”	“a list, capable of containing two or more records, in which each record contains a pointer to the next record or information indicating there is no next record”
1, 5	“automatically expiring”	“becoming obsolete and therefore no longer needed or desired in the storage system because of some condition, event, or period of time”
1, 5	“expired”	“obsolete and therefore no longer needed or desired in the storage system because of some condition, event, or period of time”
1, 5	“removing . . . from the linked list”	“adjusting the pointer in the linked list to bypass the previously identified expired records”
2, 6	“dynamically determining”	“making a decision based on factors internal or external to the information storage and retrieval system”
5	“external chaining”	“a technique for resolving hash collisions using a linked list(s)”
1, 5	“when the linked list is accessed”	“both identification and removal of the expired record(s) occurs during the same access of the linked list”

CLAIMS	MEANS	FUNCTION/STRUCTURE
1, 5	“a record search means utilizing a search key to access the linked list”	<p><u>Function:</u> “utilizing a search key to access the linked list”</p> <p><u>Structure:</u> “CPU 10 and RAM 11 of FIG. 1 and col. 3 lines 52-56 and portions of the application software, user access software or operating system software, as described at col. 4 lines 22-48, programmed with software instructions as described in Boxes 31-36 and Boxes 39-41 of FIG. 3 and in col. 5 line 53-col. 6 line 4 and col. 6 lines 14-20, and/or programmed with software instructions as described in the pseudo-code of Search Table Procedure (cols. 11 and 12) or Alternate Version of Search Table Procedure (cols. 11, 12, 13, and 14), and equivalents thereof.”</p>
1 and 5	the record search means including a means for identifying and removing at least some of the expired ones of the records from the linked list when the linked list is accessed	<p><u>Function:</u> “identifying and removing at least some of the expired ones of the records from the linked list when the linked list is accessed.”</p> <p><u>Structure:</u></p> <p>“CPU 10 and RAM 11 of FIG. 1 and col. 3 lines 52-56 and portions of the application software, user access software or operating system software, as described at col. 4 lines 22-48, programmed with software instructions as described in Boxes 33-42 of FIG. 3 and in col. 5 line 53-col. 6 line 34, and/or programmed with software instructions as described in the pseudo-code of Search Table Procedure (cols. 11 and 12) or Alternate Version of Search Table Procedure (cols. 11, 12, 13, and 14), and equivalents thereof”</p>

CLAIMS	MEANS	FUNCTION/STRUCTURE
1	<p>“means, utilizing the record search means, for accessing the linked list and, at the same time, removing at least some of the expired ones of the records in the linked list”</p>	<p><u>Function</u>: “utilizing the record search means, accessing the linked list and, at the same time, removing at least some of the expired ones of the records in the linked list.”</p> <p><u>Structure</u>: “CPU 10 and RAM 11 of FIG. 1 and col. 3 lines 52-56 and portions of the application software, user access software or operating system software, as described at col. 4, lines 22-48, programmed with software instructions that provide the insert, retrieve or delete record capability as described in the flowchart of FIG. 5 and col. 7 line 65 - col. 8 line 32, FIG. 6 col. 8 lines 33-44, or FIG. 7 and col. 8 lines 44-59, respectively, and/or programmed with software instructions that provide the insert, retrieve or delete record capability as described in the pseudo-code of Insert Procedure (cols. 9 and 10), Retrieve Procedure (cols. 9, 10, 11, and 12), or Delete Procedure (cols. 11 and 12), respectively, and equivalents thereof.”</p>
5	<p>“a hashing means to provide access . . .”</p>	<p><u>Function</u>: “to provide access to records stored in a memory of the system and using an external chaining technique to store the records with same hash address at least some of the records automatically expiring.”</p> <p><u>Structure</u>: “CPU 10, and RAM 11 of FIG. 1 and col. 3 lines 52-56 and portions of the application software, user access software or operating system software, as described at col. 4, lines 22-48, programmed with software instructions to provide a hash table having a pointer to the head of a linked list of externally chained records as described in col. 5 lines 16-26 and/or programmed with software instructions as described in the pseudo-code of Definitions, definition number 4, and equivalents thereof”</p>

CLAIMS	MEANS	FUNCTION/STRUCTURE
2 and 6	“means for dynamically determining maximum number”	<p><u>Function</u>: “dynamically determining maximum number for the record search means to remove in the accessed linked list of records.”</p> <p><u>Structure</u>: “CPU 10, and RAM 11 of FIG. 1 and col. 3 lines 52-56 and portions of the application software, user access software or operating system software, as described at col. 4, lines 22-48, programmed with software instructions to dynamically determine a maximum number of records to remove by choosing a search strategy of removing all expired records from a linked list or removing some but not all of the expired records a described in col. 6 line 56 - col. 7 line 15 and/or programmed with software instructions to dynamically determine a maximum number of records to remove by choosing between the pseudo-code of the Search Table Procedure (cols. 11 and 12) or Alternative Version of Search Table Procedure (cols. 11, 12, 13, and 14), and equivalents thereof”</p>

CLAIMS	MEANS	FUNCTION/STRUCTURE
5	<p>“mea[n]s, utilizing the record search means, for inserting, retrieving, and deleting from the system and, at the same time, removing at least some of the expired ones of the records in the accessed linked list of records.”</p>	<p><u>Function</u>: “utilizing the record search means, inserting, retrieving, and deleting records from the system and, at the same time, removing at least some expired ones of the records in the accessed linked list of record”</p> <p><u>Structure</u>: “CPU 10 and RAM 11 of FIG. 1 and col. 3 lines 52-56 and portions of the application software, user access software or operating system software, as described at col. 4, lines 22-48, programmed with software instructions that provide the insert, retrieve, and delete record capability as described in the flowchart of FIG. 5 and col. 7 line 65 - col. 8 line 32, FIG. 6 and col. 8 lines 33-44, and FIG. 7 and col. 8 lines 45-59, respectively, and/or programmed with software instructions that provide the insert, retrieve and delete record capability as described in the pseudo-code of Insert Procedure (cols. 9 and 10), Retrieve Procedure (cols. 9, 10, 11 and 12), and Delete Procedure (cols. 11 and 12), respectively, and equivalents thereof.”</p>