NC Path Language Description

<path>	::=	<path step>
		| (<path step> ...)
		| (<path>)
		| (<path> <repeater exp>)
<path step>	::=	<path step descriptor>
		| (<path step op> <path step> ...)
<path step descriptor>	::=	<literal descriptor>
		| <functional descriptor>
		| ANY
		| <lisp-variable>
<literal descriptor>	::=	<link-type>
		| @<card-type>
		|_<link-type>
		|_@<card-type>
<functional descriptor>	::=	#<lisp-link-predicate>
		| @#<lisp-card-predicate>
		|_#<lisp-link-predicate>
		|_@#<lisp-card-predicate>
<path step op>	::=	OR | AND | NOT
<repeater exp>	::=	<repeater token>
		| <repeater token> <depth cutoff>
<repeater token>	::=	+ | *
<depth cutoff>	::=	<positive integer>
<positive integer>	::=	<digit> | <digit> <positive integer>
<digit>	::=	1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0

Notes:
1) The characters #, @, and _ are called the prefix of a path step descriptor, and their order is unimportant.
2) Note that <lisp-variable> must have a value parseable as a <path step descriptor>.