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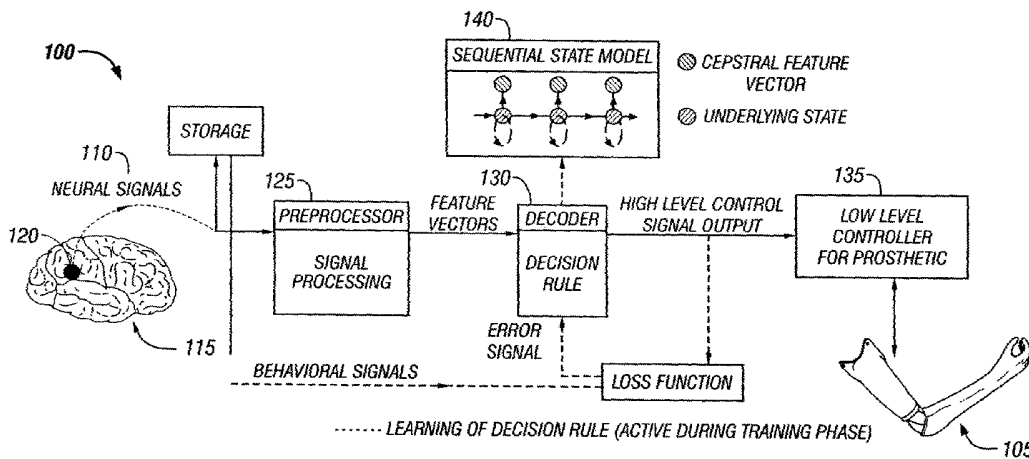
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[Continued on next page]

(54) Title: COGNITIVE STATE MACHINE FOR PROSTHETIC SYSTEMS



(57) Abstract: A prosthetic system (100) may use a decoder to predict an intended action, such as a reach, from processed signals generated from measured neural activity. The decoder may included a cognitive state machine, which transitions between cognitive states based on transition rules.

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According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)
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Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)
 East Text Search, West

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 5,314,495 A (KOVACS) 24 May 1994 (24.05.1994), see entire document.	1-50
X	US 4,314,379 A (TANIE et al) 09 February 1982 (09.02.1982), see entire document.	1-50
A	US 4,632,116 A (ROSEN et al) 30 December 1986 (30.12.1986), see abstract.	1-50
A	US 5,246,463 A (GIAMPAPA) 21 September 1993 (21.09.1993), see entire document.	1-50
A,P	US 6,344,062 B1 (ABBOUDI et al) 05 February 2002 (05.02.2002), se entire document.	1-50

Further documents are listed in the continuation of Box C.

See patent family annex.

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"A"	document defining the general state of the art which is not considered to be of particular relevance	"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
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"O"	document referring to an oral disclosure, use, exhibition or other means	
"P"	document published prior to the international filing date but later than the priority date claimed	"&" document member of the same patent family

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