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- (81) **Designated States** (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AO, AT, AU, AZ, BA, BB, BG, BH, BN, BR, BW, BY, BZ, CA, CH, CL, CN, CO, CR, CU, CZ, DE, DK, DM, DO, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN, HR, HU, ID, IL, IN, IR, IS, JP, KE, KG, KN, KP, KR, KZ, LA, LC, LK, LR, LS, LU, LY, MA, MD, ME, MG, MK, MN, MW, MX, MY, MZ, NA, NG, NI, NO, NZ, OM, PA, PE, PG, PH, PL, PT, QA, RO, RS, RU, RW, SA, SC, SD, SE, SG, SK, SL, SM, ST, SV, SY, TH, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, ZA, ZM, ZW.
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Declarations under Rule 4.17:

— as to applicant's entitlement to apply for and be granted a patent (Rule 4.1 7(H))

[Continued on nextpage]

(54) **Title:** NEURAL WATCHDOG

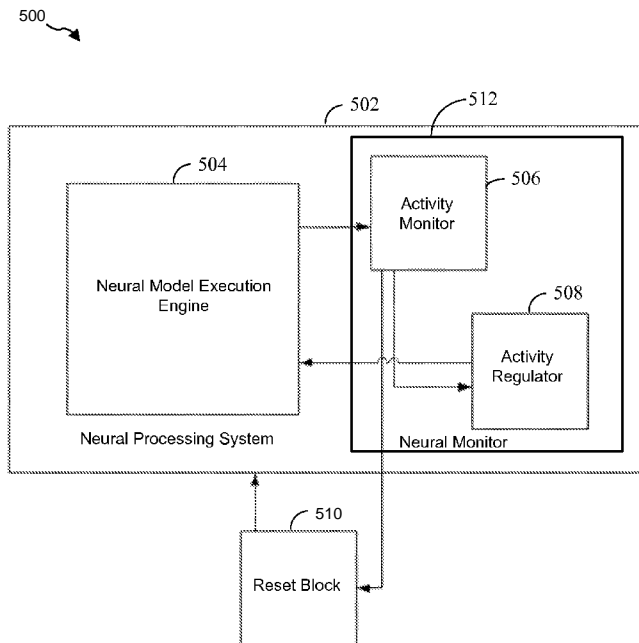


FIG. 5

(57) **Abstract:** A method of monitoring a neural network includes monitoring activity of the neural network. The method also includes detecting a condition based on the activity. The method further includes performing an exception event based on the detected condition.



- *as to the applicant's entitlement to claim the priority of the earlier application (Rule 4.17(Hi))*
- *before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments (Rule 48.2(h))*

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INTERNATIONAL SEARCH REPORT

International application No
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A. CLASSIFICATION OF SUBJECT MATTER
INV. G06N3/04
ADD.

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)
G06N

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)

EPO-Internal , WPI Data

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	XIN JIN ET AL: "Algorithm and software for simulation of spiking neural networks on the multi-chip SpiNNaker system", NEURAL NETWORKS (IJCNN), THE 2010 INTERNATIONAL JOINT CONFERENCE ON, IEEE, PISCATAWAY, NJ, USA, 18 July 2010 (2010-07-18) , pages 1-8, XP031771712 , ISBN: 978-1-4244-6916-1 page 1 - page 8, right-hand column, paragraph 1 -----	1-20
X	US 5 287 533 A (KAMIYA SHIN [JP]) 15 February 1994 (1994-02-15)	1-5 , 7,8, 10-14, 16, 17 , 19,20
A	abstract; claims 1-18; figures 1-4 column 2, line 60 - column 8, line 68 ----- -/- .	6,9 , 15 , 18



Further documents are listed in the continuation of Box C.



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* Special categories of cited documents :

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"&" document member of the same patent family

Date of the actual completion of the international search

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INTERNATIONAL SEARCH REPORT

International application No
PCT/US2014/071639

C(Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT		
Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	<p>FURBER STEVE B ET AL: "Overvi ew of the Spi NNaker System Archi tecture" , I EEE TRANSACTIONS ON COMPUTERS, I EEE SERVICE CENTER, LOS ALAMITOS, CA, US, vol . 62, no. 12, 12 June 2012 (2012-06-12) , pages 2454-2467 , XP011531364, ISSN: 0018-9340, DOI: 10. 1109/TC.2012 .142 [retri eved on 2013-11-01] page 2454 - page 2466, l eft-hand col umn , paragraph 3</p> <p style="text-align: center;">-----</p>	1-20

INTERNATIONAL SEARCH REPORT

Information on patent family members

International application No

PCT/US2014/071639

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
US 5287533	A	15-02-1994	JP 2540654 B2 09-10-1996
			JP H0460752 A 26-02-1992
			US 5287533 A 15-02-1994
