

## Search History:

### Limited Classification Search

The Patent Analyst performed a limited classification search within the following US, IPC, CPC, ECLA, or F-Term classification areas:

U.S. Class/Subclass(es): 606/32; 607/1, 2, 40, 48, 58, 116, 118, 133

IPC (8) Class/Subclass(es): A61B 18/00; A61N 1/00, 1/05, 1/18, 1/32, 1/36 (2016.01)

CPC Class/Subclass(es): A61B 2018/00434; A61N 1/0551, 1/36007, 1/36017, 1/3605, 1/36053, 1/36057, 1/36114, 1/36171 (2016.01)

See Global Search Results.

### Global Patent Literature Text Search

The Patent Analyst performed the following global text search, which was not limited by classification but may or may not have been limited by other criteria:

Minesoft PatBase: <https://www.patbase.com>

#	Search query	Results
1	PN=(US2009254143 OR US2013079745 OR US2007060971 OR US2014066923)	3
2	PA=((GEORGIA w2 TECH*) AND (RESEARCH*))	1667
3	INV=((GEORGIA w2 TECH*) AND (RESEARCH*))	3
4	INV=((BUTERA w2 Rob*))	6
5	INV=((PATEL w2 (Yogi OR Anil)))	65
6	(2 OR 3 OR 4 OR 5) AND glucose	126
7	6 AND vagus	2
8	FN=(4433431 OR 35074668 OR 54826016)	3
9	FN=(8349462 OR 12684368 OR 12991859 OR 22438872 OR 24676529 OR 30497575 OR 30828905 OR 31304392 OR 31368408 OR 31385287 OR 31390414 OR 32610336 OR 33059365 OR 34107532 OR 34110120 OR 34174398 OR 34402888 OR 40992749 OR 41020185 OR 42148430 OR 42498563 OR 42591289 OR 42591362 OR 42617200 OR 42617211 OR 42617277 OR 43457214 OR 43457219 OR 43457225 OR 43457257 OR 43457260 OR 43631646 OR 43814536 OR 43927287 OR 43955396 OR 42978559 OR 43785601 OR 44233714 OR 47807195 OR 48848368 OR 49151905 OR 50117857 OR 52365319 OR 54505367 OR 54730011 OR 55366782 OR 57878976)	47
10	FN=(313580 OR 805092 OR 1373944 OR 2754263 OR 2952917 OR 4378779 OR 4717329 OR 4955611 OR 4991771 OR 5036571 OR 7244038 OR 8300574 OR 8369753 OR 8794396 OR 8890952 OR 9431879 OR 10138636 OR 10651770 OR 11074389 OR 11089136 OR 11137404 OR	122

	<p>11219953 OR 11250621 OR 11298703 OR 11436034 OR  11674524 OR 12399779 OR 12518926 OR 12522982 OR  12751161 OR 12900067 OR 12944626 OR 13291566 OR  14915977 OR 15320651 OR 15400405 OR 15431546 OR  15773935 OR 15814198 OR 19274349 OR 19865397 OR  20662577 OR 20692063 OR 23291608 OR 23483765 OR  24044659 OR 24115562 OR 27987100 OR 28197381 OR  28233973 OR 28246066 OR 28248796 OR 28248957 OR  28261262 OR 28277169 OR 28318463 OR 28528443 OR  28574714 OR 28614102 OR 28673974 OR 29026456 OR  29449726 OR 29681385 OR 29767718 OR 30041432 OR  30090250 OR 30113626 OR 30136418 OR 30168234 OR  30256802 OR 30337770 OR 30380173 OR 30431832 OR  30975448 OR 31748203 OR 31768145 OR 31799105 OR  31805959 OR 31805966 OR 31805967 OR 31984902 OR  32247102 OR 32256400 OR 33500200 OR 33542849 OR  42244427 OR 43457205 OR 43457210 OR 43457236 OR  43457241 OR 33395031 OR 34107532 OR 34211833 OR  41608809 OR 41912086 OR 42117774 OR 42523765 OR  42591289 OR 42591362 OR 42617200 OR 42617211 OR  42617282 OR 42666478 OR 42868833 OR 43457229 OR  43457253 OR 43457256 OR 43457259 OR 43457262 OR  43457265 OR 43457267 OR 43457270 OR 43457272 OR  43457274 OR 43753350 OR 43811548 OR 47338163 OR  47543794 OR 49384462 OR 52367068 OR 54081577 OR  57711511)</p>	
<p>11</p>	<p>FN=(1412998 OR 11535024 OR 12505718 OR 12798464 OR  15011865 OR 15672607 OR 15775313 OR 20788737 OR  23515701 OR 23917917 OR 28020889 OR 28111328 OR  28359287 OR 28881230 OR 28997057 OR 28997058 OR  29111155 OR 29462212 OR 29772984 OR 29787526 OR  30497575 OR 30517042 OR 30571251 OR 30894036 OR  31304392 OR 31385287 OR 31390414 OR 31805927 OR  32271067 OR 32277093 OR 32395480 OR 32705043 OR  33025183 OR 33331966 OR 33585809 OR 34029295 OR  34118611 OR 34174398 OR 34225977 OR 34330029 OR  34404522 OR 34461887 OR 34580109 OR 34706036 OR  34921325 OR 40992749 OR 41036333 OR 41659544 OR  42235964 OR 42271329 OR 42395425 OR 42413399 OR  42666478 OR 42924101 OR 43384414 OR 43457220 OR  43457229 OR 43457251 OR 43457257 OR 44114664 OR  45917303 OR 46986902 OR 47544571 OR 48238084 OR  48763301 OR 48791473 OR 48875797 OR 48909911 OR  49126865 OR 49152392 OR 49180815 OR 49342356 OR  49553535 OR 49577723 OR 49797329 OR 49800786 OR  49800788 OR 49800841 OR 49800864 OR 49824337 OR  49824370 OR 50118875 OR 50118925 OR 50623646 OR  50734102 OR 50734119 OR 50951703 OR 50963372 OR  51081318 OR 51132849 OR 51336669 OR 51597633 OR  52209874 OR 52240001 OR 52997629 OR 53121986 OR  53181367 OR 53459724 OR 53459731 OR 53462681 OR  53462682 OR 53462683 OR 53462684 OR 53462685 OR  53519429 OR 53520410 OR 53520412 OR 53660872 OR  54081577 OR 54417994 OR 54706173 OR 54742500 OR  54742657 OR 54742682 OR 54742683 OR 55003523 OR  55050772 OR 55159282 OR 55478220 OR 55718396 OR</p>	<p>143</p>

	55763167 OR 56201151 OR 56267355 OR 56730430 OR 56828082 OR 29772984 OR 48875797 OR 50549668 OR 52185999 OR 53121986 OR 53696868 OR 54081577 OR 54262954 OR 54913063 OR 55060899 OR 55762079 OR 55885101 OR 56342834 OR 57426567 OR 58286365 OR 58860216 OR 59063692 OR 59086706 OR 59233326 OR 60149079 OR 60559989 OR 60612694)	
12	(9 OR 10 OR 11) AND (glucose) AND (vagus) AND (splanchnic) AND (electr*)	33
13	RF=(glucosereg042916)	17
14	IC=("A61N1/18" OR "A61N1/36" OR "A61N1/32" OR "A61N1/05" OR "A61N1/00" OR "A61B18/00")	49950
15	CPC=("A61N1/36007" OR "A61N1/36171" OR "A61N1/36053" OR "A61N1/36017" OR "A61N1/36114" OR "A61N1/3605" OR "A61N1/36057" OR "A61B2018/00434" OR "A61N1/0551")	3762
16	UC=("607/118" OR "607/2" OR "607/40" OR "607/116" OR "606/32" OR "607/133" OR "607/1" OR "607/48" OR "607/58")	6068
17	(14 OR 15 OR 16) AND (glucose) AND (vagus) AND (splanchnic) AND (electr*)	70
18	(14 OR 15 OR 16) AND ((inhibit* OR block* OR stop* OR prevent*) w5 (neur*))	786
19	18 AND (neur* w2 activit*)	397
20	19 AND (splanchnic)	70
21	17 OR 20	124
22	(blood w2 glucose) AND (electr*) AND (vagus) AND (splanchnic)	61
23	22 AND (inhibit* OR stop* OR block* OR prevent* OR ceas* OR decreas*)	61
24	22 AND ((inhibit* OR stop* OR block* OR prevent* OR ceas* OR decreas*) w10 (neur*))	56
25	24 AND (stimulat* OR excit* OR activat* OR energiz* OR shock*)	56
26	25 AND (electrode)	49

Google Patents: <https://patents.google.com>

#	Search query	Results
1	blood glucose level electrode "hepatic branch" vagus splanchnic	75
2	blood glucose level electrode hepatic vagus splanchnic "inhibit neural" activity	86
3	blood glucose electrode hepatic vagus splanchnic "inhibit neural" activity stimulate	57
4	electrode hepatic vagus splanchnic "inhibit neural" activity stimulate glucose regulation	56

**Computer Accessed Text Databases Searched**

The Patent Analyst searched the following computer accessed text databases:

**Google Scholar: <https://scholar.google.com/>**

#	Search query	Results
1	blood glucose level electrode "hepatic branch" vagus splanchnic	90
2	blood glucose level electrode hepatic vagus splanchnic "inhibit neural" activity	2
3	blood glucose electrode hepatic vagus splanchnic "inhibit neural" activity stimulate	2
4	blood glucose electrode hepatic vagus splanchnic inhibit neural activity stimulate	1280
5	electrode hepatic vagus splanchnic inhibit neural activity stimulate glucose regulation	1210
6	electrode hepatic vagus splanchnic inhibit "neural activity" stimulate glucose regulation	145

Date search was completed: 29 April 2016

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