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(54) Title (EN): GLUCOSE REGULATION VIA ELECTRICAL STIMULATION OF NERVES INNERVATING THE LIVER

(54) Title (FR): RÉGULATION DU GLUCOSE PAR STIMULATION ÉLECTRIQUE DE NERFS INNERVANT LE FOIE

(57) Abstract:

(EN): An example method for causing a perturbation of blood glucose level in a subject is described herein. The method can include selectively inhibiting neural activity of at least one of a hepatic branch of the subject's vagus nerve or the subject's greater splanchnic nerve using electrical stimulation having a frequency greater than about 5 kHz. The selective inhibition of neural activity causes the subject's blood glucose level to increase or decrease as compared to a baseline level.

(FR): L'invention concerne un procédé illustratif pour provoquer une perturbation de la glycémie chez un sujet. Le procédé peut consister à inhiber sélectivement l'activité neurale d'une ramification hépatique du nerf vague du sujet et/ou du nerf grand splanchnique du sujet à l'aide d'une stimulation électrique ayant une fréquence supérieure à environ 5 kHz. L'inhibition sélective de l'activité neurale provoque l'augmentation ou la diminution de la glycémie du sujet par rapport à une glycémie de référence.

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African Intellectual Property Organization (OAPI) : BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, KM, ML, MR, NE, SN, TD, TG

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Declarations:

Declaration made as to the identity of the inventor (PCT Rules 4.17(i) and 51bis.1(a)(i))

Declaration made as applicant's entitlement, as at the international filing date, to apply for and be granted a patent (Rules 4.17(ii) and 51bis.1(a)(ii)), in a case where the declaration under Rule 4.17(iv) is not appropriate

Declaration made as applicant's entitlement, as at the international filing date, to claim the priority of the earlier application, where the applicant is not the applicant who filed the earlier application or where the applicant's name has changed since the filing of the earlier application (Rules 4.17(iii) and 51bis.1(a)(iii))