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**(54) Title (EN):** ROTATION SENSING ARRANGEMENT FOR AN INJECTION DEVICE

**(54) Title (FR):** AGENCEMENT DE CAPTURE DE ROTATION DESTINÉ À UN DISPOSITIF D'INJECTION

**(57) Abstract:**

**(EN):** The present disclosure relates to a rotation sensing arrangement for an injection device (1), the rotation sensing arrangement comprising: a first member (201) and a second member (202), wherein the first member (201) and the second member (202) are rotatable relative to each other with regard to an axis of rotation (203), at least one signal generator (210) arranged on the first member (201), at least one sensor (220; 320; 420) arranged on the second member (202), wherein the at least one sensor (220; 320; 420) comprises a interdigital electrode structure (230; 330; 430) configured to generate an electrical signal in response to a movement of the at least one signal generator (210) relative to the sensor (220; 320; 420), a processor (240) connected to the at least one sensor (220; 320; 420) and operable to calculate an angle of rotation of the first member (201) relative to the second member (202) on the basis of the electrical signal.

**(FR):** La présente invention concerne un agencement de capture de rotation destiné à un dispositif d'injection (1), l'agencement de capture de rotation comprenant : un premier élément (201) et un second élément (202), le premier élément (201) et le second élément (202) pouvant tourner l'un par rapport à l'autre vis-à-vis d'un axe de rotation (203), au moins un générateur de signal (210) disposé sur le premier élément (201), au moins un capteur (220 ; 320 ; 420) disposé sur le second élément (202), ledit capteur (220 ; 320 ; 420) comprenant une structure d'électrode interdigitée (230 ; 330 ; 430) configurée pour générer un signal électrique en réponse à un mouvement dudit générateur de signal (210) par rapport au capteur (220 ; 320 ; 420), un processeur (240) relié audit capteur (220 ; 320 ; 420) et pouvant fonctionner pour calculer un angle de rotation du premier élément (201) par rapport au second élément (202) sur la base du signal électrique.

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**Declarations:**

Declaration of inventorship (Rules 4.17(iv) and 51bis.1(a)(iv)) for the purposes of the designation of the United States of America