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本国际公布:

— 包括国际检索报告(条约第 21 条(3))。

(54) Title: ELECTRIC ALL-DIMENSIONAL NUMERICAL CONTROL INJECTION MOLDING MACHINE

(54) 发明名称: 电动全方位数控注塑机

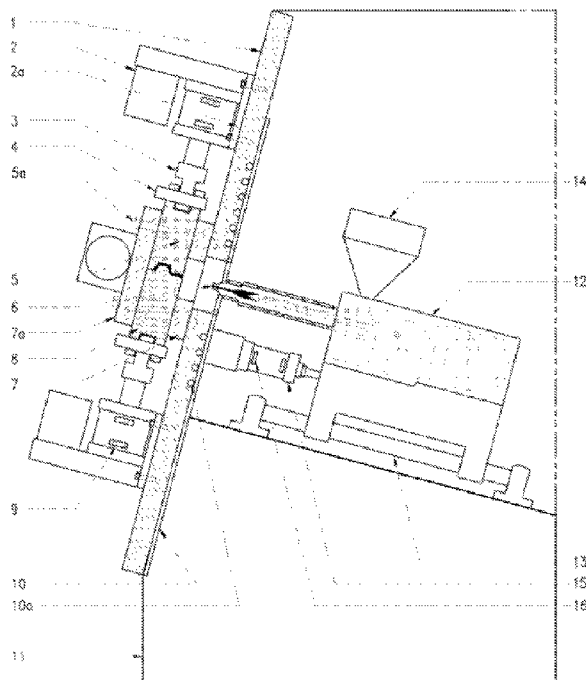


图 1 / Fig. 1

(57) Abstract: Disclosed is an electric all-dimensional numerical control injection molding machine applicable to production of injection products with high precision and complex three-dimensional shapes. The electric all-dimensional numerical control injection molding machine mainly comprises a machine base, a main board, four sets of electric mould guiding devices, a cross-shaped chute mould assembly, and an injection device assembly. The four sets of electric mould guiding devices are mounted on a front face of the machine. A slider mould is disposed in a chute of a cross-shaped mould base, is connected to a shaft of an electric driver, and implements mould opening and closing functions by means of linear movement of the shaft of the electric driver. An injection system of the machine is used for injecting plasticized, fused, and homogenized plastic materials into a mould cavity of the mould, thereby manufacturing high-quality plastic products. Both the mould guiding and injection devices are driven by electric power, which reduces the manufacturing, usage and maintenance cost of the apparatus, reduces the noise and oil pollution to the environment, and meanwhile improves the production efficiency of the die-casting products, making operations easier, safer and more efficient, and improving the production stability and the quality of plastic products.

(57) 摘要:

[见续页]

本发明公开了一种适于生产高精密度、三维形状复杂的注塑产品的电动全方位数控注塑机。其主要包括：一机座、一主板、四组电动导模装置、一“十”字滑槽模具总成，一注射装置总成。四组电动导模装置安装在机器的正面上。滑块模具置入于“十”字模架的滑槽中，并与电力驱动器的轴连接，藉由电力驱动器轴的直线运动而完成关模和开模的功能。机器的注射系统用于将塑化、熔融和均化的塑料材料注射到模具的模腔中，从而制造出高质量的塑料制品。导模及注射装置全部使用电力作为动力，降低了设备的制造、使用及维护成本，降低了噪音及油污对环境的污染，同时提高压铸产品的生产效率，使操作更简单、安全、高效，提高了生产稳定性和塑料制品的质量。