

ABSTRACT

Drive module comprising an MEMS micromotor, process for the production
of this module and timepiece fitted with this module

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The invention proposes a drive module intended to engage with a clock wheel having a plate made of crystalline or amorphous material comprising a lower layer, which forms a substrate, and an upper layer, into which an MEMS type of micromotor is etched, wherein the micromotor has
10 at least one actuator rotatably driving a rotor, characterised in that a pinion arranged coaxially to the rotor is rotatably connected to the rotor and disposed above the rotor, said pinion being provided to engage with the clock wheel in an engagement zone located close to an outer peripheral edge of the plate, that the rotor is disposed on the plate in order to minimise
15 the distance between the outer peripheral edge of the rotor and the outer peripheral edge of the plate corresponding to the engagement zone, and that the diameter of the pinion is larger than that of the rotor so as to protrude relative to the plate into the engagement zone.

20 The invention also proposes a process for the production of this module and a timepiece comprising such a module.

Figure 5