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(54) **Title:** INSERTION DEVICE, INSERTION SYSTEM AND METHOD FOR INSERTING A MEDICAL DEVICE

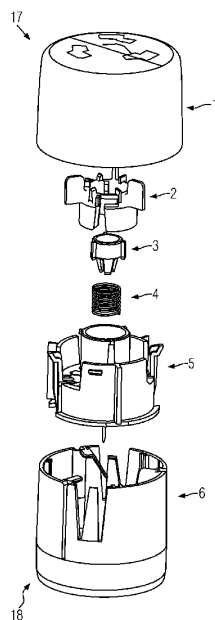


FIG. 1a

(57) **Abstract:** Insertion device, Insertion system and method for inserting a medical device
Insertion device for at least partially inserting a medical device such as an analyte sensor
through the skin of a subject, the insertion device having a proximal end to be put in contact
with the skin and a distal end opposite to the proximal end, the insertion device comprising:
a guide sleeve being provided at the proximal end and to be placed in contact with the
skin for an insertion process; a cap being provided at distal end, which can be pressed
on to carry out at least part of the insertion process while moving in the direction of the
proximal end; an inserter sleeve provided at least partially within the guide sleeve and/or
the cap and being provided with a holder for the medical device and the inserter sleeve
being moveable with respect to the guide sleeve; a retractor configured to retract a portion
provided with the medical device, the retractor being moveable along a movement path;
an elastic element such as a spring, which can bias the retractor towards the distal end
along the movement path; a retractor control element which controls the movement of the
retractor by blocking or freeing the movement of the retractor along the movement path
and which is itself moveable such as rotatable with respect to the retractor. The invention
further refers to an insertion system and an insertion method.

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