

ABSTRACT**Autonomous system for positioning by pseudolites in a constrained zone and method of implementation**

5 The object of the present invention is a system for positioning an object in a constrained zone, including:

- a set of pseudolites distributed in said constrained zone and each presenting a spreading code corresponding to the spreading code of a satellite belonging to a constellation of satellites of a satellite navigation system, said constellation of satellites including at least a first set of satellites (S1) and a second set of satellites (S2) of disjoint visibility,
- and a receiver situated on the object to be localized,

10 the pseudolites being distributed in the constrained zone in such a way that, at any point of the constrained zone, it is possible for the receiver of the object to acquire the positioning signals of at least two pseudolites presenting spreading codes corresponding, for the one, to a satellite of the first set (S1), and, for the other, to a satellite of the second set (S2), in such a way that the receiver receiving these positioning signals detects the impossibility of them being signals transmitted by satellites of the constellation of satellites and consequently determines in a totally autonomous manner that it is receiving positioning signals transmitted by pseudolites.

25 FIGURE 1



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