

AbstractPositioning system using pseudolites operating in assisted mode

1. The present invention relates to a system for positioning an object provided with a receiver (R), which includes a set of pseudolites transmitting positioning signals and distributed in a constrained area and assistance means (S) capable of communicating with said receiver (R) and calculating the position of the object, and a server (S) capable of dynamically configuring the set of pseudolites, said pseudolites each further having a spreading code corresponding to that of a satellite belonging to a satellite constellation in a satellite navigation system, the dynamic configuration of the pseudolites by the server being such that the spreading codes of said pseudolites correspond to spreading codes of satellites of the satellite constellation not visible (SN) to the receiver (R) of the object, wherein assistance means (S) communicate to said receiver (R) a list of spreading codes meant to be those of the satellites visible to said receiver (R) but actually corresponding to the spreading codes of the set of pseudolites so as to deceive the receiver (R) that can acquire the positioning signals transmitted by the pseudolites and communicate with the assistance means (S) so that the latter calculates the position of the object.

Figure 1

