

Abstract**METHOD AND SYSTEM FOR DETECTING FRAUDULENT POSITION DATA OF
A MOBILE DEVICE**

Method for authenticating the position $X(t)$ of a mobile element (1), a mobile element comprising at least a GNSS receiver, r , having a function of estimating the position $X(t)$ of that mobile element (1), this method being characterized in that it comprises, in combination, at least the following steps:

- determining one or more items of data (21) associated with the position X of a GNSS receiver,
- extracting reference data associated with the position X from a cartographic database (23),
- determining at least one consistency indicator (22) $I_c(X)$ using the first item of data associated with the said receiver r and the reference data coming from the cartographic database,
- filtering the said indicator or indicators $I_c(X)$, in order to improve the detection rate or the false alarm rate,
- authenticating (24) the position X of the said mobile element (1) using one or more of the said consistency indicators $I_c(X)$ in an authenticity decision function.

Figure 1 to be published