

Abstract**System and method for locating intercepted sonar transmissions**

The invention proposes a system for sonar pulse location (100) for a submarine comprising:

- 5 - two antennas of linear general shape (101, 102) and substantially parallel with each other, arranged on the submarine, the two antennas comprising a detection antenna (101) and a focusing antenna (102), the detection antenna (101) being of small size with respect to the length of the second antenna (102), each antenna comprising a set of sensors (1010, 1020),
- 10 - at least one interception module (51) for determining the direction of a sonar emission emitted by an emitter and intercepted by the detection antenna (101), and
- a focusing module (52) for determining the distance of the emitter by focusing the paths on the basis of the signals provided by the sensors of the focusing antenna
- 15 (102), in the direction of the emission determined by the detection module (101).

(Figure 4)