

Marine Surveying**ABSTRACT**

5 A system for surveying the structure beneath the seabed using a sub-bottom
profiler, comprising: a survey vessel; and a sub-bottom profiler mounted to
travel with the survey vessel, the sub-bottom profiler comprising a transmitter
for transmitting pulses at a predetermined period between pulses towards the
seabed, and a first receiver and a second receiver for receiving reflections from
10 the seabed of each transmitted pulse; wherein the transmitter and the first and
second receivers are mounted along an axis in the direction of travel of the
survey vessel and the transmitter is disposed between the first and second
receivers and spaced from each of them by a predetermined separation.

15 FIG. 5B