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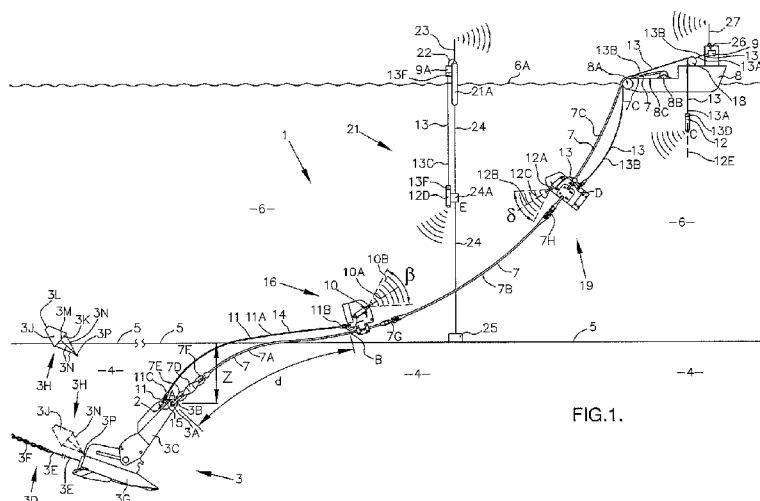


FIG. 1.

(57) Abstract: An anchor data communication system (1) for communication of measurement data, provided by instrumentation (2) mounted on a marine anchor (3) buried below a surface (5) of a mooring bed (4), including a first transponder (10) mounted on a line member (7, 3D) attached to said anchor (3) and connected by conductor means (11) to said instrumentation (2), and a second transponder (12, 12A) mounted on said line member (7, 3D) or suspended from a floating structure (8, 21A) and connected to a transceiver (9, 9A) on said floating structure (8, 21A), wherein an axis (10A, 12B) of an emission beam (10B, 12C) of at least one of said transponders (10, 12, 12A) is constrained in heading by said line member (7, 3D) to maximize the strength of signals from said first transponder (10) arriving at said second transponder (12, 12A).