

ABSTRACT**CODER AND DECODER USING A QUASI-CYCLIC SEMI-REGULAR LDPC CODE
OF SHORT LENGTH FOR LOW CONSUMPTION APPLICATIONS SUCH AS
REMOTE READING**

The present invention describes an LDPC (Low-Density Parity Check) code based on a control matrix represented by a Tanner bipartite graph comprising 128 variable nodes of the graph and 64 constraint nodes of the graph, said code being characterized in that: each of the constraint nodes of the graph is connected to 7 variable nodes of the graph; each of the cycles of the graph has a length greater than or equal to 6; the minimum distance of said code is equal to or greater than a predefined threshold for minimum distance.

Figure 1 to be published.