

【ABSTRACT】

【Title of Invention】

DREDGED SOILS LONG DISTANCE TRANSPORT SYSTEM USING MAGNETIC FIELD AND TORNADO
AND ITS CONTROL METHOD THEREOF

The present invention provides a long distance dredged soil transport system using an electromagnetic field and tornado eddy current technique, the system including a pump module including a pump for generating a compressed air and generating a plug flow flowing by dividing an inner state of a pipeline to a gaseous unit and a liquefied unit by introducing the generated compressed air into the pipeline by being interlinked to one lateral surface of the pipeline, a pipe module wound with a coil configured to apply an electromagnetic wave to the liquefied unit and including a plurality of pipelines, database stored with flow information on flow velocity and flow form in response to physical properties of liquefied unit, and a control module communicating with the pipe module, the pump module and the database wiredly and wirelessly and applying, to the coil, a waveform of a current matching to a flow waveform of the liquefied unit transported inside the pipeline, and a control method thereof.

Figure 3