Innovative developments of an installation method for a mobile type ACROSS transmitter

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The innovative development is being made for a mobile type ACROSS transmitter, called HIT, which has been developed for field exploration works. The most important technical subject of the first prototype machine is the installation method of ground coupler plate that fits mechanically well with the ground surface with undulation without any slippage. A new innovation is the development of 'OZAB', a flexible/rigid sheet inserted between the coupler plate and ground surface. The OZAB contains sand between a thin flexible rubber sheet and a metal plate; it turns to be soft with the undulation of ground surface by injecting fluid into the OZAB and vibrating it by HIT; it turns to be stiff enough to sustain the stress of ACROSS signal by evacuating solid and fluid.