

A method of aircraft braking during landing includes supply from the aircraft board on the runway of magnetorheological foam, generating a magnetic field using controlled electromagnets located with possibility of interaction of generated magnetic field with magnetorheological foam. Magnetorheological foam is supplied on the runway in front of brake wheels of landing gear. The controlled electromagnets are placed along the runway with possibility of creating magnetic field in the contact areas of the brake wheels of landing gear with the runway.