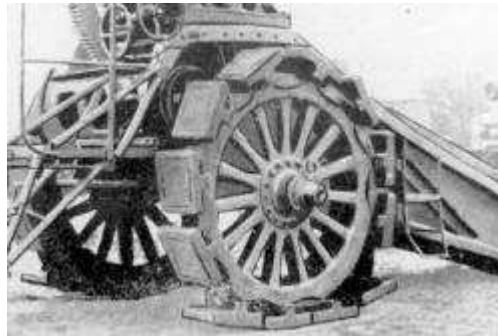


Boydell Artillery Carriage Wheel



Waiting for the boom crawler, James Boydell had patented in England in 1846 a ‘to add to cart system to facilitate movement’¹, which was applied to the wheels of a steam tractor built by Birmingham Bach's Works and used between 1856 and 1858 for plowing in Thetford, England. This system of articulated plates was called 'Dreadnought wheel' or also 'Pedrial wheel'. The machine of 7 t travelled at 8 km / h on a good road. This system could be found on the wheels of artillery during the Crimean War (photo), but proved unreliable : the hinged plates slowed the vehicle and broke on hard ground, cornering became more difficult.

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<http://www.unusuallocomotion.com/pages/locomotion/changes-around-the-track-i-off-road-locomotion.html> Item 9

¹ Patent entitled “apparatus to facilitate the draught of carriages”.