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(54) **BATTERY CELL**

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ABSTRACT

A battery cell including a cathode current collector, a cathode, an anode current collector, optionally an anode, and a solid state electrolyte comprising a non-aqueous solvent, an aluminium-based halogenated compound AlX_n , and/or a polymeric form thereof, wherein X is a halogen atom and n is between 1 and 6, a metal salt of the alkali metal, the alkaline earth metal or the metal of Group Ib, Group IIb, or Group IIIa of the periodic table, and a bis(fluorosulfonyl) imide anion.

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