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(54) Title: ELECTROLYTE COMPOSITIONS FOR RECHARGEABLE METAL HALIDE BATTERY

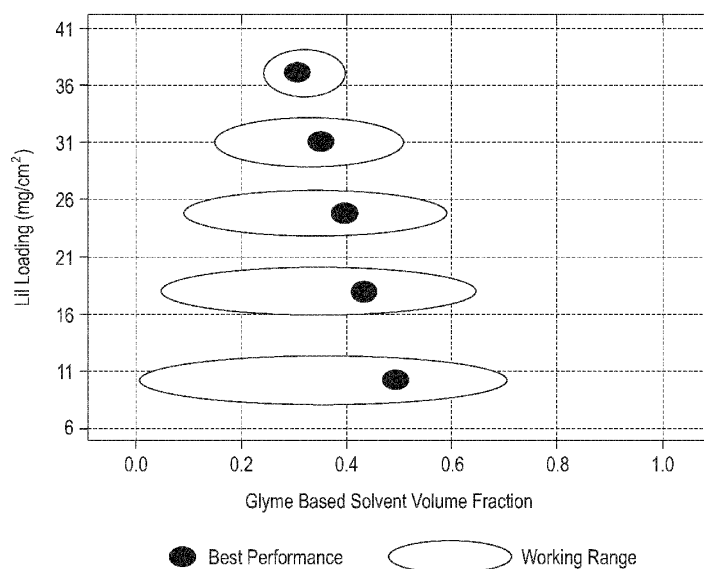


FIG. 1

(57) Abstract: A rechargeable metal halide battery with an optimized electrolyte formulation shows high capacity at fast charging rates. The optimized electrolyte includes a metal halide, an oxidizing gas, and a mixed-solvent solution that includes a glyme-based compound that is in a volume fraction of between 20-70 volume % of the mixed-solvent solution. The mixed-solvent solution may further include a nitrile compound and/or a heterocyclic compound.

[Continued on next page]



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