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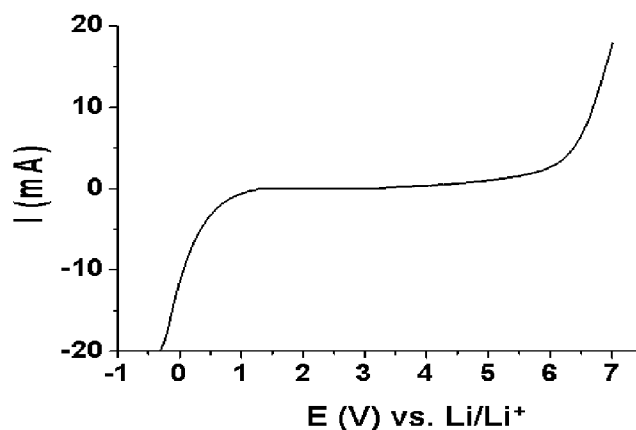
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(54) Title: ELECTROLYTE HAVING EUTECTIC MIXTURE AND ELECTROCHEMICAL DEVICE CONTAINING THE SAME

[Fig. 1]



(57) Abstract: An electrolyte includes an eutectic mixture composed of (a) a hetero cyclic compound having a predetermined chemistry figure, and (b) an ionizable lithium salt. An electrochemical device having the electrolyte. The eutectic mixture included in the electrolyte exhibits inherent characteristics of an eutectic mixture such as excellent thermal stability and excellent chemical stability, thereby improving the problems such as evaporation, ignition and side reaction of an electrolyte caused by the usage of existing organic solvents.



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A. CLASSIFICATION OF SUBJECT MATTER***H01M 10/40(2006.01)i***

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B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC H01M 10/36, 4/02, 4/58, 10/40

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

eKOMPASS(KIPO internal) "electrolyte, eutectic mixture, electrochemical device, nonaqueous, lithium salt, imidazole, safety, performance, thermal, chemical stability, high conductivity"

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	JP 2002110225 A (YUASA BATTERY CO., LTD.) 12 Apr. 2002	1~3, 6~8, 18, 19
Y	See abstract, pages 1~10, and claims 1~5.	4, 5, 9~17
Y	KR 1020070045975 A (LG CHEM. LTD.) 02 May 2007	4, 5, 9~17
	See abstract, pages 1~11, and claims 1~18.	



Further documents are listed in the continuation of Box C.



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