United States Patent [19]					
Koga					
[54	FLAT BAT	TERV			
[75]	•	Ryoji Koga, Kawaguchiko, Japan			
[73]	Assignee:	Kawaguchiko Seimitsu Company Limited, Yamanashi, Japan			
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[22]	Filed:	Dec. 22, 1982	Pri		
[30]	Foreign	Application Priority Data	Atı		
F	eb. 19, 1982 [JP	[] Japan 56-213908 [] Japan 57-16875 [] Japan 57-26547 [] Japan 57-31050	[57 A t cat tio:		
[51] [52]	Int. Cl. ³ U.S. Cl	H01M 2/12; H01M 2/08 429/82; 429/163; 429/174	sha sta		
[58]	Field of Sea	rch 429/174, 162, 163, 164, 429/166, 171, 172, 173, 185, 82, 219	the two ins		
[56]		References Cited	cat		
U.S. PATENT DOCUMENTS					
	2,307,764 1/1	943 Deibel et al 429/164			

[11]	Patent Number:	4,487,819
[45]	Date of Patent:	Dec. 11, 1984

2,843,650	7/1958	Jacquier	429/174
		Stark et al	

FOREIGN PATENT DOCUMENTS

111060	8/1980	Japan	429/174
13665	1/1982	Japan	429/174
		Japan	

Primary Examiner—Donald L. Walton Attorney, Agent, or Firm—Koda and Androlia

[57] ABSTRACT

A flat battery for use in a micro-size device, including a cathode can having a substantially U-shaped cross-section, an anode can having a substantially inverted U-shaped cross-section, an anode and cathode active substances accommodated in a battery cell constituted by the cathode and anode cans, a separator provided between the anode and cathode active substances, and an insulative film provided at an upstanding portion of the cathode can to isolate the cathode can from the anode can and the anode active substance.

26 Claims, 46 Drawing Figures

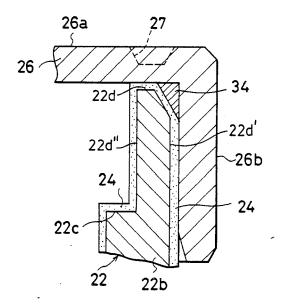




FIG. 1

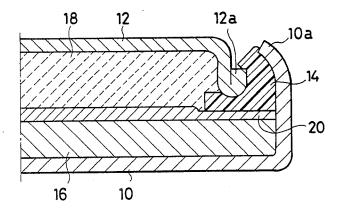


FIG.2

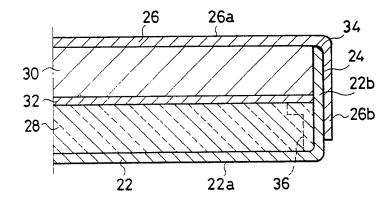


FIG.3

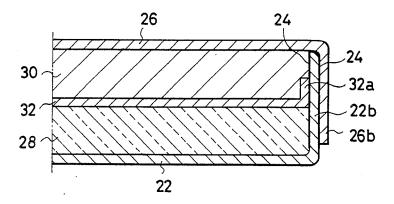


FIG.4

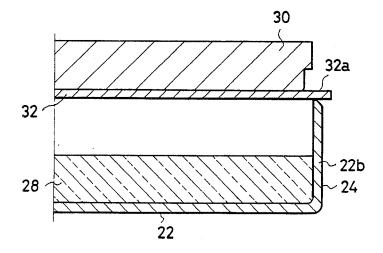


FIG.5

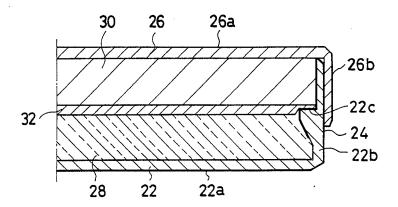


FIG.6

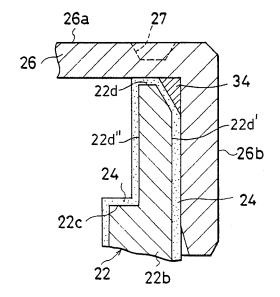


FIG.7

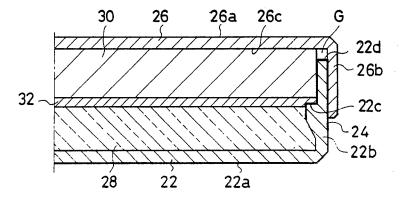
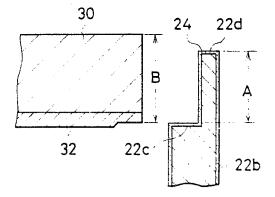


FIG.8



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