No. 617,592.

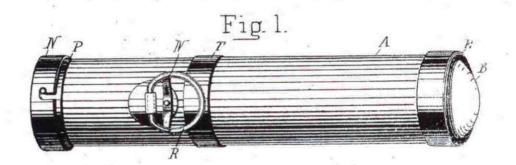
Patented Jan. 10, 1899.

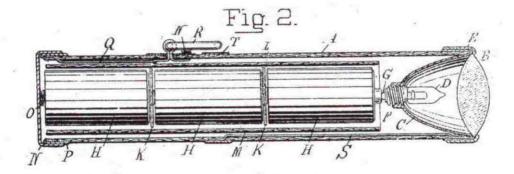
D. MISELL. ELECTRIC DEVICE.

Application filed Mar. 12, 1898.

(No Model.)

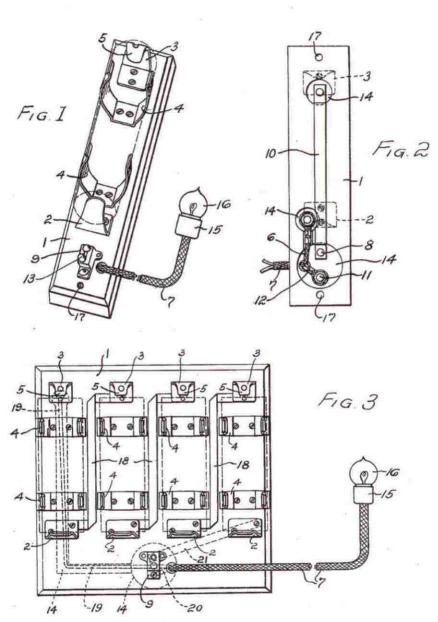
2 Sheats-Sheet |.





Witnesses: Samuel W. Bakh Cowrad Nutert Inventor,
David Misell,
by Thomas Lower, Attorney

A. S. LYHNE. BATTERY HOLDER. FILED FEB. 12, 1921.



Anker S. Lyhne
St. Mistouter

2,718,541

BATTERY HOLDERS

Filed Nov. 30, 1953

FIG. I.

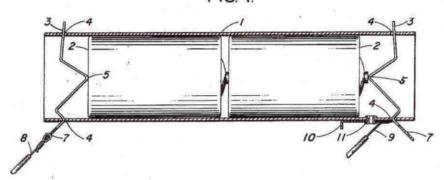
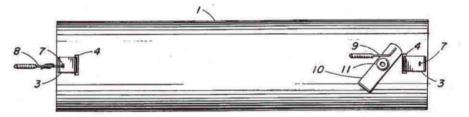


FIG. 2.

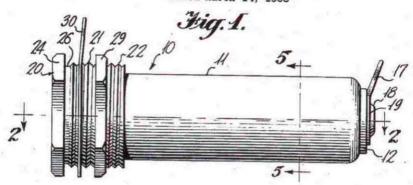


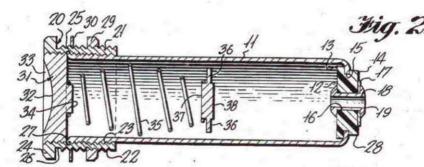
INVENTOR.
ROBERT J. SPOONER.

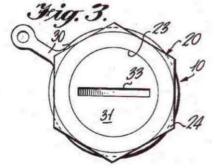
Joseph M. Scholices

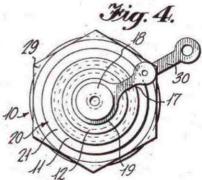
BATTERY HOLDER

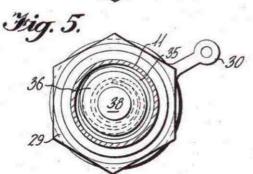
Filed March 14, 1958









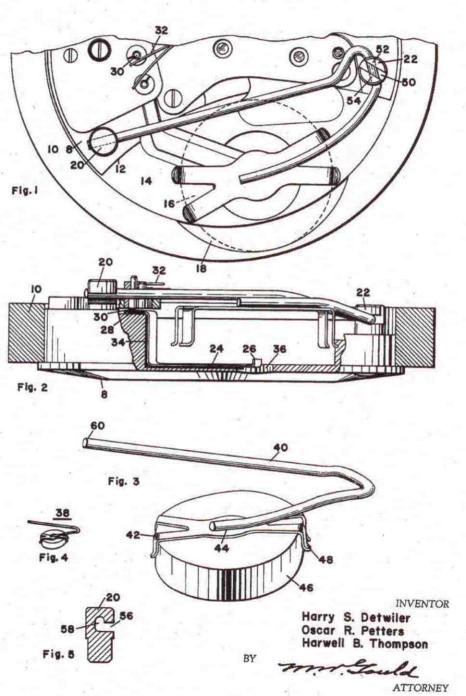


Oleg C. Enikeieff

BY Mason, Fenwick & Lawrence

BATTERY HOLDER FOR ELECTRIC WRIST WATCHES

Filed Feb. 7, 1956



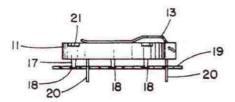
Engelstein et al.			[45] I	Date of	Patent:	Dec. 11, 1984	
[54]	BATTERY	HOLDER FOR COIN CELLS	3,597,91			429/1	
[75]	Inventors:	Charles Engelstein, South Orange, N.J.; David L. Kassel, New York; Harry Goodman, Rockville Centre, both of N.Y.	3,856,577 4,053,688 4,218,522 4,230,777 4,371,595	3 10/1977 2 8/1980 7 10/1980	Oki et al. 429/96 Perkins et al. 429/98 Motoyoshi 429/97 Gatto 429/97 Suwa 429/98		
[73]	Assignee:	Memory Protection Devices, Inc., Farmingdale, N.Y.	Primary Examiner—Anthony Skapars Attorney, Agent, or Firm—Bucknam and Archer				
[21]	Appl. No.:	516,884	[57]	4	ABSTRACT		
[22] [51] [52] [58]	U.S. Cl Field of Sea	Jul. 25, 1983 H01M 2/10 429/100; 429/1 arch 429/96-100, 9/1, 176, 178; 354/80, 81; 368/88, 204	A battery holder for a coin cell provided with a casing which receives the coin cell against its bottom and laterally constrains the cell by a peripheral barrier wall. One pole of the cell is engaged by an electrical contact extending across the casing bottom, and the other pole of the cell is engaged by another electrical contact extending across the cell in resilient contact with the other				
[56]	U.S. F	References Cited PATENT DOCUMENTS	pole thereof.				
.3	3.473.966 10/1	969 Fritch		5 Claims	, 4 Drawing	Figures	

Patent Number:

[11]

4,487,820

United States Patent [19]



Engelstein et al.			[45] I	Date of	Patent:	Jan. 22, 1985	
[54]	HORIZONTAL BATTERY HOLDER FOR CYLINDER CELLS		[56] References Cited U.S. PATENT DOCUMENTS				
[75]	Inventors:	Charles Engelstein, South Orange, N.J.; David L. Kassel, New York; Harry Goodman, Rockville Centre, both of N.Y.	4,031,295 4,247,603 4,281,727 4,291,106 4,414,298	1/1981 8/1981	Leffingwell e Meeks Hooke	429/100 t al. 429/1 429/98 429/10 429/100	
[73]	Assignee:	Memory Protection Devices, Inc.,	Primary Examiner—Charles F. Lefevour Attorney, Agent, or Firm—Bucknam and Archer				
		Farmingdale, N.Y.	[57]		ABSTRACT		
[21]	Appl. No.:	527,220	A battery holder for a cylinder cell is provided with a casing which receives the cell against its bottom and constrains the cell in a peripheral barrier with resilient contacts at its ends. The holder optionally has terminals projecting through its bottom for printed circuit board mounting or flat terminals with eyelets projecting from				
[22]	Filed:	Aug. 29, 1983					
[51] [52] [58]	U.S. Cl	H01M 2/100 429/100; 429/178 arch 429/100, 98, 97, 96,	the top of the holder. A snap-on cover, which facilitates removal of the battery, can be provided.				
[-0]							

429/9, 1, 99, 178; 339/17 R

[11]

Patent Number:

5 Claims, 7 Drawing Figures

4,495,257

United States Patent [19]

