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(54) Title: PTFE COPOLYMER AND BINDER FOR COATING CATHODE PARTICLES

(57) Abstract: An improved cathode film is formed by forming a copolymer of 10 to 90 mol percent of a fluorinated ethylene copolymer such as tetrafluoroethylene soluble in an organic solvent such as acetone. An ionically conductive salt such as potassium trifluorosulfonate is added to a solution of the copolymer. The solution is applied to particles of active cathode material such as AgO. The solvent is removed to form a film which can be pressed onto a current collector.



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## INTERNATIONAL SEARCH REPORT

International application No.

PCT/US06/07348

## A. CLASSIFICATION OF SUBJECT MATTER

IPC(8) - H01M 4/00 (2007.01)

USPC - 429/128

According to International Patent Classification (IPC) or to both national classification and IPC

## B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC(8) - H01M 4/00, H01M 2/16 (2007.01)

USPC - 429/128, 429/129, 429/144, 429/304

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)

PatBase

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

| Category* | Citation of document, with indication, where appropriate, of the relevant passages     | Relevant to claim No. |
|-----------|----------------------------------------------------------------------------------------|-----------------------|
| X         | US, 6,632,561 B1 (BAUER et al) 14 October 2003 (14.10.2003) <i>see entire document</i> | 1-15                  |

☐ Further documents are listed in the continuation of Box C.

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