

American Society of Information Science (ASIS) Poster Session
Annual Meeting, Pittsburg, PA, October 26, 1992

Adding Value to Online Search Results Through Post-Processing

Thomas E. Wolff,
Amoco Corporation
P. O. Box 3011, M/C F-1
Naperville, Illinois 60566
(708)420-4662
mhs!amoco!thomas_e_wolff@attmail.com

The online information search involves many steps, from determining search requirements, formulating the search strategy and carrying out the online search, to reviewing and presenting the search results. Providing an enhanced information products to our customers is emphasized in this presentation, which discusses the use of full-screen text editor KEDIT (pronounced *KAY-edit*) and the preparation of personal bibliographic databases (PBDBs). KEDIT runs on DOS- or OS/2-based personal computers and is especially well suited for editing lengthy text (DOS ASCII) database output, both because of the power of KEDIT and the regularity of the search session. Personal bibliographic databases can be an effective alternative to use-once-and file-away delivery of hard copy search reports. The useful lifetime of search information can be extended by turning it into a dynamic personal database to which can be appended related searches or periodic updates. The specific post-processing steps discusses in this presentation are:

- KEDIT for "cleaning up" search output
- KEDIT for formatting reports for word processor input
- KEDIT for formating reports for importing into PBDBs
- PBDBs as an enhanced search product
- PBDBs as a means to improved hardcopy reports.

KEDIT: Text Editor for Large Search Reports

- Document size limits - up to 8 MEG in DOS (ca. 150,000 lines)
- KEDIT is Fast
 - Files in system RAM - "instantaneous" simple movement
 - Search a 100K line file for a five-letter word in ca. 17 sec (Compaq 386/25 MHz, KEDIT in DOS under Windows 3.0)
- Good documentation and technical support (telephone, BBS's)
 - Useful tutorial in the User's Guide
 - Comprehensive Reference Manual for advanced features
- Powerful Locate and Change Functionality
 - Number and character string targets
 - Find, Findup
 - Locate, All
 - Forward and backward
 - Boolean "and", "or", "not", or combinations
 - Change, Selective Change
- KEDIT has most standard word processors functions
- Customize almost any function or setting (Profile.kex, STATUS)
- KEDIT Macros in KEXX (or REXX) Language
 - Modify KEDIT defaults or complex programming
 - Comparable in power to BASIC
 - Strength in interpreting and manipulating character strings

Personal Bibliographic Databases - Uses

- Cataloging papers and other documents
- Preparation of bibliographies and footnotes for publications
- An enhanced access to search report information
- Reformatting downloaded text files for internal publication

Personal Bibliographic Databases from Search Reports -

General Issues

- Communication
 - Alternative to hardcopy or flat file
 - Local area networks - shared resources
 - "Team" or "Research Project" bibliographic databases
- Convenience - searching, extended information lifetime
- Concepts - new idea generation
- Comprehensiveness - no substitute for online databases
- Copyright - information suppliers must be compensated

Conclusions

- Most customers and information providers expect value-added search reports
- Critical to be at the forefront of cost-effective data handling
- KEDIT - an outstanding editor for simple and complex post-processing of search output
- KEDIT strengths - handling large, structured files; ease of use; versatility; powerful text commands; KEXX/REXX macro language
- Personal bibliographic databases must be "low cost"
 - Development and maintenance
 - Licensing fees
- Electronic storage fees must be simple and reasonable
- Now - bibliographic information
Future - include graphics, multimedia
- Database producers and online systems - facilitate post-search usage of "your" data
- Personal software developers - improve browsing, expand capabilities

Command Line Macros - Manipulation of Output Fields

- **Macro WEED - Selective removal of information fields**
 - Accepts 1-15 ARGuments including:
 - BLANK - Eliminates all "extra" blank lines
 - ANSWER(S) - Deletes all lines with "ANSWER" in col. 1-17
 - COPYRIGHT - Deletes all lines with "COPYRIGHT" in col. 1-17
 - Field codes with indicator of source online system (=, -, *)
 - "WXYZ" - STN ("AU ___", "PRAI _", etc. in col. 1-5)
 - "WXYZ=" - ORBIT ("TI __-__", "XRAM-_" etc. in col. 1-6)
 - "WZ-" - Dialog tagged ("PA-_", "AB-_", etc. in col. 1-4)
 - "WZ*" - pre-1990 STN ("AN ___", "SC ___", etc. in col. 1-4)
 - Arguments entered lower case will be converted to upper case
 - Fields with more than one line of text are completely deleted
- **Macro SHOW - Selective field display**
 - Accepts 1-15 field codes similar to WEED macro
 - Blank lines retained between database records, i.e. paragraphs
 - Manipulate whole paragraphs while viewing selected fields only
 - Macro KEEP to make Show permanent
 - Macro UNSHOW or All to undo SHOW
- **Copyright macros** - Add copyright information to each citation, e.g., AN field of CA/STN, or abstract field of PTS PROMT/Dialog)

T. E. Wolff

Copyright (C) Amoco Corporation

October 1992

PTS PROMT (Dialog File 16) Citation as Downloaded

03621094

Recycling insulates PS from landfills

It wasn't easy, incorporating recycled polystyrene into a new brand of insulation board for use in home and commercial construction. First, Amoco Foam Products Co. had to work with its sources of recycled PS to make sure their material would not 'gum up the works,' business manager Peter Sullivan said.

After several years of development, Amoco Foam has commercialized the board, called Amof foam-RCY. The insulation contains a minimum of 50 percent recycled material, including unspecified percentages of post-consumer and industrial scrap.

THIS IS AN EXCERPT: Copyright 1992 Crain Communications Inc.

FULL TEXT AVAILABLE IN FORMAT 9

WORD COUNT: 706

Plastics News February 10, 1992 p. 5

ISSN: 1042-802X

Modified by KEDIT Macros, Including Rich Text Format (RTF) Coding

<><>

<>{\b RECYCLING INSULATES PS FROM LANDFILLS}

<>\tab {\i Plastics News, February 10, 1992, p. 5}

<>\tab It wasn't easy, incorporating recycled polystyrene into a new brand of insulation board for use in home and commercial construction. First, Amoco Foam Products Co. had to work with its sources of recycled PS to make sure their material would not 'gum up the works,' business manager Peter Sullivan said.

<>\tab After several years of development, Amoco Foam has commercialized the board, called Amof foam-RCY. The insulation contains a minimum of 50 percent recycled material, including unspecified percentages of post-consumer and industrial scrap.

<>\tab THIS IS AN EXCERPT: Copyright 1992 Crain Communications Inc.

Output by Word Processor after no Additional Formatting

RECYCLING INSULATES PS FROM LANDFILLS

Plastics News, February 10, 1992, p. 5

It wasn't easy, incorporating recycled polystyrene into a new brand of insulation board for use in home and commercial construction. First, Amoco Foam Products Co. had to work with its sources of recycled PS to make sure their material would not 'gum up the works,' business manager Peter Sullivan said.

After several years of development, Amoco Foam has commercialized the board, called Amof foam-RCY. The insulation contains a minimum of 50 percent recycled material, including unspecified percentages of post-consumer and industrial scrap.

THIS IS AN EXCERPT: Copyright 1992 Crain Communications Inc.

T. E. Wolff

Copyright (C) Amoco Corporation

October 1992

**Derwent World Patent Index (Dialog) Citation as
Downloaded in Tagged Format 4**

43/4/24
AX- 91-193135/26|
AX- <XRAM> C91-083597|
TI- Prodn. of aromatic anhydride(s) and ester(s) with superior colour - by
treatment of crude prod. with activated boric acid and fractionation,
useful in polymer prodn. |
PA- (STAD)_AMOCO CORP|
AU- <INVENTORS> PARK C M; COATES R; HOLZHAUER J K; PETERSON J V|
NP- 002|
PN- <BASIC> WO 9108204_A_910613_9126|
PN- <EQUIVALENTS> EP 455802_A_911113_9146|
AN- <PRIORITIES> US 606603 (901031); US 443564 (891129)|
AN- <APPLICATIONS> WO 90US6938 (901128); EP 90901071 (901128)|
LA- English|
CT- US 2971011; DE 1948374; US 3888921; US 4794195; 3.Jnl.REF|
DS- <NATIONAL> JP|
DS- <REGIONAL> AT; BE; CH; DE; DK; ES; FR; GB; GR; IT; LU; NL;
SE|
AB- <BASIC> WO 9108204
Prodn. of aromatic anhydrides and esters with improved colour
comprises treatment with activated boric acid followed by
fractionation at 200-275 deg C and 25-1 mmHg. The boric acid is
activated by heating with an organic hydrocarbon acid or anhydride.
Specifically claimed is treatment of trimellitic anhydride
(TMA) and dimethyl-2,6-naphthalene dicarboxylate.
USE/ADVANTAGE - TMA is used as an intermediate in the prodn. of
quality plasticisers and polyester resins. Dimethyl-2,6-naphthalene
dicarboxylate is a monomer used in the prepn. of high performance
polyesters, esp. poly(ethylene-2,6-naphthalene) (PEN) which is used in
"hot-filled" food and beverage containers, tyre cord and magnetic
recording tape. The delta E colour of TMA is improved from, e.g.
2.69-0.44 in a process which does not require expensive recovery and
regeneration of dehydration agents. @(22pp Dwg.No.0.0)|
FS- CPI|
DC- A41; E13; E14; |
IC- C07C-051/42; C07C-067/48; C07C-069/76; C07D-307/77|
MC- A01-E11; A08-P03; E06-A02A; E10-G02A|
DR- 1894-U; 1924-U|

**Derwent World Patent Index (Dialog) Citation
Modified by Editor Macros for
Importing into Personal Bibliographic Database**

43/4/24

AX- 91-193135/26 - Copyright (C) 1992 Derwent Publications Ltd. - For
Internal Use Only|
XM- C91-083597|
TY- 92-0390|
TI- Prodn. of aromatic anhydride(s) and ester(s) with superior colour - by
treatment of crude prod. with activated boric acid and fractionation,
useful in polymer prodn. |
PA- (STAD) AMOCO CORP|
AU- PARK, C M;COATES, R;HOLZHAUER, J K;PETERSON, J V|
NP- 002|
PD- 13 Jun 1991|
PN- WO 9108204 A|
BA- 13 Jun 1991 WO 9108204 A|
EQ- 13 Nov 1991 EP 455802 A|
PL- US 443564|
PE- 29 Nov 1989|
PR- 29 Nov 1989 US 443564;
31 Oct 1990 US 606603|
AN- 28 Nov 1990 EP 90901071;
28 Nov 1990 WO 90US6938|
LA- English|
CT- US 2971011;DE 1948374;US 3888921;US 4794195;3.Jnl.REF|
DS- NATIONAL= JP|
DS- REGIONAL= AT;BE;CH;DE;DK;ES;FR;GB;GR;IT;LU;NL;SE|
AB- BASIC: WO 9108204
{P} Prodn. of aromatic anhydrides and esters with improved colour
comprises treatment with activated boric acid followed by
fractionation at 200-275 deg C and 25-1 mmHg. The boric acid is
activated by heating with an organic hydrocarbon acid or anhydride.
{P} Specifically claimed is treatment of trimellitic anhydride
(TMA) and dimethyl-2,6-naphthalene dicarboxylate.
{P} USE/ADVANTAGE - TMA is used as an intermediate in the prodn. of
quality plasticisers and polyester resins. Dimethyl-2,6-naphthalene
dicarboxylate is a monomer used in the prepn. of high performance
polyesters, esp. poly(ethylene-2,6-naphthalene) (PEN) which is used in
"hot-filled" food and beverage containers, tyre cord and magnetic
recording tape. The delta E colour of TMA is improved from, e.g.
regeneration of dehydration agents. @(22pp Dwg.No.0.0)|
FS- CPI|
DC- A41;E13;E14;|
IC- C07C-051/42;C07C-067/48;C07C-069/76;C07D-307/77|
MC- A01-E11;A08-P03;E06-A02A;E10-G02A|
DR- 1894-U;1924-U|

Figure 1a

Derwent World Patent Index (Dialog) Citation as Downloaded in Tagged Format

43/4/24

AX- 91-193135/26|

AX- <XRAM> C91-083597|

TI- Prodn. of aromatic anhydride(s) and ester(s) with superior colour - by treatment of crude prod. with activated boric acid and fractionation, useful in polymer prodn. |

PA- (STAD)_AMOCO CORP|

AU- <INVENTORS> PARK C M; COATES R; HOLZHAUER J K; PETERSON J V|

NP- 002|

PN- <BASIC> WO 9108204 A 910613 9126|

PN- <EQUIVALENTS> EP 455802 A 911113 9146|

AN- <PRIORITIES> US 606603 (901031); US 443564 (891129)|

AN- <APPLICATIONS> WO 90US6938 (901128); EP 90901071 (901128)|

LA- English|

CT- US 2971011; DE 1948374; US 3888921; US 4794195; 3.Jnl.REF|

DS- <NATIONAL> JP|

DS- <REGIONAL> AT; BE; CH; DE; DK; ES; FR; GB; GR; IT; LU; NL; SE|

AB- <BASIC> WO 9108204

Prodn. of aromatic anhydrides and esters with improved colour comprises treatment with activated boric acid followed by fractionation at 200-275 deg C and 25-1 mmHg. The boric acid is activated by heating with an organic hydrocarbon acid or anhydride.

Specifically claimed is treatment of trimellitic anhydride (TMA) and dimethyl-2,6-naphthalene dicarboxylate.

USE/ADVANTAGE - TMA is used as an intermediate in the prodn. of quality plasticisers and polyester resins. Dimethyl-2,6-naphthalene dicarboxylate is a monomer used in the prepn. of high performance polyesters, esp. poly(ethylene-2,6-naphthalene) (PEN) which is used in "hot-filled" food and beverage containers, tyre cord and magnetic recording tape. The delta E colour of TMA is improved from, e.g. 2.69-0.44 in a process which does not require expensive recovery and regeneration of dehydration agents. @(22pp Dwg.No.0.0)@|

FS- CPI|

DC- A41; E13; E14; |

IC- C07C-051/42; C07C-067/48; C07C-069/76; C07D-307/77|

MC- A01-E11; A08-P03; E06-A02A; E10-G02A|

DR- 1894-U; 1924-U|

Derwent World Patent Index Citation as a Library Master Database Record
(Screens 1 and 2)

BROWSE DB: T:AMOCO TOT: 1571 REC: 20 SC: 1

RECORD TYPE: PATENT

TITLE:	Prodn. of aromatic anhydride(s) and ester(s) with superior colour - by treatment of crude prod. with activated boric acid and fractionation, useful in polymer prodn.		
AUTHORS:	PARK, C M COATES, R	ASSIGNEE:	(STAD) AMOCO CORP
PATENT NUM:	WO 9108204 A	DATE:	13 Jun 1991
APPL NUMBER:	28 Nov 1990 EP 90901071	DATE PRIORIT:	29 Nov 1989
APPL PRIORIT	US 443564	ALL PRIORITY:	29 Nov 1989 US 443564
EQUIV PATENT	13 Nov 1991 EP 455802 A		31 Oct 1990 US 606603
	31 Mar 1992 US 5101050 A	LANGUAGE:	English
ACCESS. NUM:	91-193135/26 - Copyright		
USE:	3 TYPE: 9202 92- LOCATION:		

ABSTRACT:

BASIC: WO 9108204

Prodn. of aromatic anhydrides and esters with improved colour comprises treatment with activated boric acid followed by fractionation at 200-275 deg C and 25-1 mmHg. The boric acid is activated by heating with an organic hydrocarbon acid or anhydride.

Specifically claimed is treatment of trimellitic anhydride (TMA) and dimethyl-2,6-naphthalene dicarboxylate.

USE/ADVANTAGE - TMA is used as an intermediate in the prodn. of quality

1HELP 2PRVIEW 3FLD CONT 4DUMP 5PRINT 6BRIEF 7ED 9EXPAND PGDNNXT PGUPPRV ESCQUIT

BROWSE DB: T:AMOCO TOT: 1571 REC: 20 SC: 2

SECTION:

COMMENTS:

Comments by G. E. Kuhlmann (from February 1992):

A very interesting Amoco US patent concerning the use of activated boric acid to improve the color of 2,6-NDC during distillation. Good color properties for Amoco 2,6-NDC are necessary to pass customer heat stability tests.

INDEX TERMS:

C07C-051/42
C07C-067/48
C07C-069/76
C07D-307/77
A01-E11
A08-P03
E06-A02A
E10-G02A
1363-P
1894-U
1894-U

1HELP 2PRVIEW 3FLD CONT 4DUMP 5PRINT 6BRIEF 7ED 9EXPAND PGDNNXT PGUPPRV ESCQUIT

