

Title (en)  
DOCUMENT MANIPULATION IN A DATA PROCESSING SYSTEM

Publication  
**EP 0377698 A4 19930922 (EN)**

Application  
**EP 89906240 A 19890518**

Priority  
• US 20009188 A 19880527  
• US 24541988 A 19880916

Abstract (en)  
[origin: WO8911695A1] A data processing system provides a desk view which serves as a graphical user interface to the system. The desk view displays detailed miniaturized images (34) of all documents possessed by the user. The miniaturized document images (34) are user movable and stackable in the desk view. The miniaturized image is derived by the processor from an original image comprising a plurality of pixels. Color selection of the miniaturized images is based on a comparison with corresponding groups of pixels of adjacent groups and the differences in the lightness/darkness of the colors (determined by average counts) is emphasized. The desk view also enables user selected operations including user interaction with graphical representations of mailing (52), disposing (74), annotating, stapling (88), unstapling (90) and printing (72) of documents. User interaction with graphical representations of the desk view is communicated through an electronic stylus for providing a simulation of a common office desk and user interaction.

IPC 1-7  
**G06F 3/14**

IPC 8 full level  
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CPC (source: EP)  
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Citation (search report)  
• I.E.E.E. vol. 4, no. 1, January 1987, NEW YORK, NY, USA pages 29 - 39 SHI-KUO CHANG 'VISUAL LANGUAGES: A TUTORIAL AND SURVEY'  
• BYTE April 1982, pages 242 - 282 DAVID CANFIELD SMITH 'DESIGNING THE STAR USER INTERFACE'  
• See references of WO 8911695A1

Designated contracting state (EPC)  
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**WO 8911695 A1 19891130**; AT E183322 T1 19990815; AT E190176 T1 20000315; AU 3691689 A 19891212; AU 623149 B2 19920507; CA 1334874 C 19950321; DE 68929051 D1 19990916; DE 68929051 T2 20000309; DE 68929163 D1 20000406; DE 68929163 T2 20000928; DK 22290 A 19900126; DK 22290 D0 19900126; EP 0377698 A1 19900718; EP 0377698 A4 19930922; EP 0570083 A2 19931118; EP 0570083 A3 19940209; EP 0570083 B1 19990811; EP 0579337 A1 19940119; EP 0579337 B1 20000301; ES 2015393 A6 19900816; JP 2975621 B2 19991110; JP H02504439 A 19901213; MX 171580 B 19931108

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