

Title (en)

SMART ELECTRONIC LABEL EMPLOYING ELECTRONIC INK

Title (de)

INTELLIGENTES ELEKTRONISCHES ETIKETT MIT ELEKTRONISCHEM FARBSTOFF

Title (fr)

ETIQUETTE ELECTRONIQUE INTELLIGENTE METTANT EN APPLICATION DE L'ENCRE ELECTRONIQUE

Publication

EP 1461802 A4 20081001 (EN)

Application

EP 02717399 A 20020207

Priority

- US 0203568 W 20020207
- US 26704801 P 20010207
- US 26875201 P 20010214

Abstract (en)

[origin: WO02063602A1] The present invention provides for smart and dumb implementation of a stand-alone, remotely updateable, remotely alterable, flexible electronic label (16). The flexibility of the electronic label (16) allows the label to fit into and conform to the shape of the molding used in retail store shelving to display merchandize and warehouse shelving. The flexible, thin label (16) includes a flexible display assembly having electronic ink disposed on a support, one or more antennas for sending or receiving signals corresponding to one of instructions, programs, data or selected indicia to be displayed by the display assembly, a storage element in circuit (28) with the antenna for storing the instructions, programs, data and indicia, and one or more processors (24) for intelligently determining the indicia to be displayed by the display assembly, for controlling and coordinating operation of the label, and for generating output signals for instructing the display assembly to display the indicia.

IPC 8 full level

G06F 3/147 (2006.01); **G06K 1/12** (2006.01); **G06K 17/00** (2006.01)

CPC (source: EP)

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Citation (search report)

- [XY] WO 0016189 A1 20000323 - GELBMAN ALEXANDER [US]
- [T] WO 9517051 A1 19950622 - BSC DEVELOPMENTS LTD [GB], et al
- [TY] US 5736967 A 19980407 - KAYSER KENNETH W [US], et al
- [T] US 6089453 A 20000718 - KAYSER KENNETH W [US], et al
- [YD] US 6025896 A 20000215 - HATTORI YASUHIRO [JP], et al
- [TY] US 6027958 A 20000222 - VU DUY-PHACH [US], et al
- [Y] WO 9910769 A1 19990304 - E INK CORP [US]
- [Y] US 4937586 A 19900626 - STEVENS JOHN K [CA], et al
- See references of WO 02063602A1

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Designated extension state (EPC)

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