

Title (en)
ELIMINATION-ABSORBER MONITORING SYSTEM

Title (de)
ELIMINATIONSABSORBER-ÜBERWACHUNGSSYSTEM

Title (fr)
SYSTEME DE SURVEILLANCE D'ELIMINATION-ABSORPTION

Publication
EP 1417662 A4 20080416 (EN)

Application
EP 01942242 A 20010611

Priority
US 0140912 W 20010611

Abstract (en)
[origin: WO02101679A1] An elimination-absorber monitoring system addresses diaper-monitoring problems (400) with a unique, low cost, multi-layer disposable sensor (100) structure that absorbs small volumes of urine, yet allows most urine volume to flow unimpeded through it, and into the diaper (400) below. When connected with a reusable, miniature monitor/indicator unit (500), the sensor (100) presents a clear and on-going change of measurement condition upon experiencing a rapid influx into the diaper (400) of a significant volume of urine, and/or upon a significant reduction in the available absorbency of the diaper's top surface (474). The sensor (100) additionally provides recessed, protected elements for similarly presenting a clear and on-going change in measurement condition upon experiencing the presence of fecal matter. Further provided is the monitor unit (500) employing narrow, widely-spaced, fast-time, fast transition-time pulses for conductivity measurement and alarm activation. The monitor (500) and sensor (100) are interconnected and attached to diaper (400) by particularly effective and unique means, and the monitor is equipped with a highly intuitive and convenient control interface, as well as improved assemblies for the transmission of audible and visual alarm indications. Also described is a convenient test-strip device which, when connected to the monitor/alarm unit of the system, can selectively simulate either a soiled or unsoiled elimination-absorber/sensor for test, caregiver-training or demonstration purposes.

IPC 8 full level
G08B 21/00 (2006.01); **A61F 5/44** (2006.01); **A61F 13/42** (2006.01); **A61F 13/49** (2006.01)

CPC (source: EP)
A61F 13/42 (2013.01)

Citation (search report)

- [X] US 6200250 B1 20010313 - JANSZEN DAVID [US]
- [X] WO 0079497 A1 20001228 - BENT THORNING BENSEN AS [DK], et al
- [X] DE 4336728 A1 19940505 - SMITHS INDUSTRIES PLC [GB]
- See references of WO 02101679A1

Designated contracting state (EPC)
AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE TR

Designated extension state (EPC)
AL LT LV MK RO SI

DOCDB simple family (publication)
WO 02101679 A1 20021219; EP 1417662 A1 20040512; EP 1417662 A4 20080416; JP 2004529730 A 20040930

DOCDB simple family (application)
US 0140912 W 20010611; EP 01942242 A 20010611; JP 2003504356 A 20010611