

Title (en)
Electronic seal.

Title (de)
Elektronisches Siegel.

Title (fr)
Sceau électronique.

Publication
EP 0463294 B1 19940921 (DE)

Application
EP 91104204 A 19910319

Priority
DE 4019265 A 19900616

Abstract (en)
[origin: EP0463294A1] Transportation containers are locked with a seal to provide a means of checking whether or not the loading door has been opened during transportation. Conventional seals, if they are damaged or displaced, merely indicate that the lock has in fact been opened at some time. <??>The electronic seal described here also enables the times and duration of a plurality of successive opening operations to be recorded. The electronic seal comprises a seal band which can be anchored in a casing and a monitoring device with an opening sensor disposed in the casing, a clock generator, a counter, a memory and an operating voltage source. <??>Along with the time data relating to changes in the condition of the seal, further logistical data such as the starting time, time zone, place of origin, destination, country, owner, carrier, means of transportation etc. can be stored in the memory. The seal band is furthermore incorporated in the security loop which monitors the condition of the seal, for example by designing the seal band as an electric conductor via which electric monitoring signals are transmitted. <IMAGE>

IPC 1-7
G09F 3/03

IPC 8 full level
G07C 1/00 (2006.01); **G07C 5/08** (2006.01); **G08B 13/00** (2006.01); **G08B 13/22** (2006.01); **G09F 3/03** (2006.01)

CPC (source: EP US)
G07C 5/0858 (2013.01 - EP US); **G09F 3/0335** (2013.01 - EP US)

Cited by
EP0825554A1; EP1878861A1; ES2138930A1; NL9300283A; US5422627A; ES2138931A1; FR2701780A1; EP0618559A3; WO9957701A1; WO2007088045A1; WO2008006652A1; WO9524023A1; WO9807116A1; WO9524022A1; WO2009129900A1

Designated contracting state (EPC)
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