

Title (en)
Subterranean storage system for a container

Title (de)
Unterirdisches Lagersystem für einen Behälter

Title (fr)
Système de stockage souterrain pour un récipient

Publication
EP 1236656 A1 20020904 (EN)

Application
EP 02388017 A 20020228

Priority
DK PA200100334 A 20010301

Abstract (en)
The invention relates to a subterranean storage system (2) for a container, preferably a waste disposal container, wherein opening and closing of a lid (6) that covers the system is not to be performed manually and separately when the system is operated. Opening and closing of the lid (6) can be performed by the same drive unit as is used for driving the platform. The lifting means comprise at least four straps (10), in which the platform (8) is suspended, said straps (10) being, via rollers (16,28) at their one end, connected to the platform (8) and synchronised by means of rollers (16,54) and a shaft (32), wherein rotational energy can be supplied to the shaft (32); and wherein the straps (10) are, at their other end, conveyed over reversing rollers (24) and are directly or indirectly connected to elastic means (11) and to the lid (6); wherein the weight of the platform (8) has such magnitude while being located in its lower position with the straps (10) unloaded, that rotation of the shaft (32) for winding the straps will initially deform the elastic means (11), and thereby move the lid (6) towards its open position until a stop is reached, following which further rotation of the shaft (32) for winding the straps (10) will elevate the platform (8) towards its upper position. <IMAGE>

IPC 1-7
B65F 1/14

IPC 8 full level
B65F 1/14 (2006.01)

CPC (source: EP)
B65F 1/1447 (2013.01); **B65F 1/1457** (2013.01)

Citation (applicant)
DE 4100590 A1 19920716 - BAYER AG [DE]

Citation (search report)
• [DA] DE 4105901 A1 19920827 - SCHROEDER ROLF [DE]
• [A] DE 29712150 U1 19970911 - KRAMP UWE [DE]
• [A] DE 19829156 A1 20000113 - PAPP ROBERTO [DE], et al

Cited by
DE10329221A1; NL2005032C2; NL1032120C2; CN113180838A; CN110217521A; US11122925B2; WO2020077069A1; WO2013050995A1

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

DOCDB simple family (publication)
EP 1236656 A1 20020904

DOCDB simple family (application)
EP 02388017 A 20020228