Title (en)
    PUMP UNIT AND CONTAINER

Title (de)
    PUMPENEINHEIT UND BEHÄLTER

Title (fr)
    UNITE DE POMPE ET CONTENANT

Publication
    EP 1486261 A4 20090422 (EN)

Application
    EP 03712677 A 20030313

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- JP 0303001 W 20030313
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Abstract (en)
    [origin: EP1486261A1] The invention provides a pump unit and container wherein outflow of liquid is prevented while not in use during transport and the like, and deterioration in operability due to compression of bellows over a long period of time is also prevented. The pump unit of the present invention is inserted in a container main body Y and sucks out liquid in the container main body Y to the outside of the container main body Y, and is provided with: an intake pipe 63 inserted into the container main body Y; a bellows 64 capable of return movement in the direction of extension, and connected to an upper part of the intake pipe 63; and a piston part connected to an upper part of the bellows 64, which extends and contracts the bellows 64, and sucks out liquid in the container main body Y from a piston head P to the outside of the container main body Y via the intake pipe 63. Moreover, the piston part is able to be extended and contracted so that the piston head P can be stored on the container main body Y side the bellows 64 being contracted. <IMAGE>

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IPC 8 full level
    B05B 11/00 (2006.01)

CPC (source: EP)
    B05B 11/1035 (2023.01); **B05B 11/106** (2023.01)

Citation (search report)
- [E] EP 1360995 A1 20031112 - ADVANEX INC [JP]
- [A] JP 2001349273 A 20011221 - ADVANEX INC
- [A] US 5664703 A 19970909 - REIFENBERGER JOHN E [US], et al
- See references of WO 03078074A1

Cited by
    EP1561512A4; EP1923142A3; US8528788B2; WO2008155232A1; WO2021226580A1; WO2004043610A1; US11453535B2; US11975899B2

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