

Title (en)
HARD TAG LOCKING CLAMP WITH ENERGY HARVESTING ELEMENT

Title (de)
KLEMME ZUR FIXIERUNG EINES STARREN ETIKETTS MIT ENERGIEGEWINNUNGSELEMENT

Title (fr)
PINCE DE VERROUILLAGE D'ÉTIQUETTE DURE À ÉLÉMENT DE COLLECTE D'ÉNERGIE

Publication
EP 3539097 A1 20190918 (EN)

Application
EP 16805240 A 20161111

Priority
US 2016061626 W 20161111

Abstract (en)
[origin: WO2018089016A1] Systems and methods for harvesting mechanical energy in a security tag. The methods involve: applying by a tool a pushing force so as to cause a securement mechanism disposed within the security tag to deform; transferring mechanical energy to a spring sleeve when the securement mechanism deforms due to loading applied by the tool; using an energy harvester (e.g., a piezo element or a magnet/solenoid element) to harness the mechanical energy applied by the tool, where the energy harvester is at least partially coupled to the securement mechanism; and converting the mechanical energy to electrical energy. The energy harvester is disposed between the securement mechanism and an Electronic Article Surveillance ("EAS") or Radio Frequency Identification ("RFID") component of the security tag.

IPC 8 full level
G08B 13/24 (2006.01); **E05B 73/00** (2006.01)

CPC (source: EP)
E05B 73/0017 (2013.01); **E05B 73/0064** (2013.01); **G08B 13/2448** (2013.01); **E05B 2047/0062** (2013.01); **G08B 13/2434** (2013.01)

Citation (search report)
See references of WO 2018089016A1

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Designated extension state (EPC)
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