

Title (en)
BARRIER MECHANISM

Title (de)
SPERRMECHANISMUS

Title (fr)
MÉCANISME DE BARRIÈRE

Publication
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Application
EP 23182136 A 20210512

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Abstract (en)
The present application describes a barrier mechanism for level crossing control systems. This new mechanism presents a set of differentiated requirements and solutions, whereby the main distinctive characteristic is the boom balance system which does not use the conventional counterweights, resulting in a reduction in the operational space of the barrier, avoiding possible accidents with workers and passers-by, minimizing as well the material damages. To achieve the indicated objective, guaranteeing the balance and stability in the movement of the boom a set of compression springs is used which exert more, or less, force on the main shaft according to the position in which the boom is found. Another important characteristic of the barrier lies in the mechanics and the transmission systems used, which present high levels of reliability.

IPC 8 full level
B61L 29/02 (2006.01)

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• [XY] CN 2732824 Y 20051012 - SHENZHEN JIESHUN SCIENCE AND T [CN]
• [XY] KR 200448681 Y1 20100507
• [XY] KR 101451175 B1 20141015 - LIKE TECHNOLOGY CO LTD [KR]
• [I] KR 101609770 B1 20160406 - DKEE INC [KR]
• [A] KR 100919455 B1 20090928 - PARKNER CO LTD [KR]
• [Y] CN 209538080 U 20191025 - XINXIANG ZHONGYUDINGLI SOFTWARE TECH CO LTD, et al

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