

Title (en)

SAFETY LOOP VOLTAGE REGULATING CIRCUIT

Title (de)

SICHERHEITSSCHLEIFENSPANNUNGSREGLERSCHALTUNG

Title (fr)

CIRCUIT DE RÉGULATION DE TENSION DE BOUCLE DE SÉCURITÉ

Publication

EP 4047445 A4 20231122 (EN)

Application

EP 21879183 A 20210913

Priority

- CN 202011108566 A 20201016
- CN 2021117897 W 20210913

Abstract (en)

[origin: EP4047445A1] A safety loop voltage regulating circuit includes a power regulation chip (1), and a safety loop (2) and contactor (KM) that are connected with the power regulation chip (1). A plurality of safety switches (S1, S2, ..., S(n)) are arranged in the safety loop (2). A starting end of the safety loop (2) is connected to a power supply terminal (SVCC) of the power regulation chip (1), and a tail end of the safety loop (2) is connected to a grounding end (SGND) of the power regulation chip (1) through the contactor (KM). The power regulation chip (1) further includes a feedback terminal (FB) connected to the tail end of the safety loop (2).

IPC 8 full level

B66B 13/22 (2006.01)

CPC (source: CN EP)

B66B 13/22 (2013.01 - EP); **G05F 1/46** (2013.01 - CN)

Citation (search report)

- [IA] US 6446760 B1 20020910 - LISI ANTONIO [CH]
- [A] JP 2011063431 A 20110331 - TOSHIBA ELEVATOR CO LTD
- See references of WO 2022078137A1

Designated contracting state (EPC)

AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)

BA ME

Designated validation state (EPC)

KH MA MD TN

DOCDB simple family (publication)

EP 4047445 A1 20220824; EP 4047445 A4 20231122; CN 112327984 A 20210205; CN 112327984 B 20220419; WO 2022078137 A1 20220421

DOCDB simple family (application)

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