

Title (en)  
PRIMARY-PULSED SWITCHING POWER SUPPLY

Title (de)  
PRIMÄRGETAKTETES SCHALTNETZEIL

Title (fr)  
ALIMENTATION À DÉCOUPAGE À CADENCE PRIMAIRE

Publication  
**EP 3631958 A1 20200408 (DE)**

Application  
**EP 18724217 A 20180509**

Priority  
• DE 102017111431 A 20170524  
• EP 2018062059 W 20180509

Abstract (en)  
[origin: WO2018215215A1] The invention relates to a primary-pulsed switching power supply (1) for converting an input voltage (U<sub>e</sub>) into an output voltage (U<sub>a</sub>), at least comprising: a primary-side circuit branch (2) to which the input voltage (U<sub>e</sub>) can be applied; - a secondary-side circuit branch (4) which is separated from the primary-side circuit branch (2) and from which the output voltage (U<sub>a</sub>) can be tapped; - a galvanic isolation (3) between the primary-side and the secondary-side circuit branch (4); - a fuse (5) which is arranged in the primary-side circuit branch (2) in order to switch the primary-side circuit branch (2) in a substantially voltage-free manner; - a first switchable switch element (6) which is arranged in the primary-side circuit branch (2) such that the switch element triggers the primary-side fuse (5) upon being switched; and - a monitoring unit (7) which is connected to the first switch element, is arranged in the primary-side circuit branch (2), is designed to monitor a characteristic electric signal determined by the second primary coil (11), and switches the first switch element (6) when a threshold is exceeded.

IPC 8 full level  
**H02M 1/32** (2007.01); **H02H 3/20** (2006.01); **H02H 7/10** (2006.01); **H02H 7/12** (2006.01); **H02M 3/335** (2006.01)

CPC (source: EP US)  
**H02H 3/023** (2013.01 - EP US); **H02H 3/20** (2013.01 - US); **H02H 7/12** (2013.01 - US); **H02H 7/1213** (2013.01 - EP US); **H02H 9/041** (2013.01 - EP); **H02M 1/32** (2013.01 - EP); **H02M 1/36** (2013.01 - US); **H02M 3/33507** (2013.01 - EP); **H02M 3/33523** (2013.01 - US); **H02M 1/0006** (2021.05 - EP US); **H02M 1/32** (2013.01 - US); **H02M 1/36** (2013.01 - EP); **H02M 3/33507** (2013.01 - US)

Citation (search report)  
See references of WO 2018215215A1

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

DOCDB simple family (publication)  
**DE 102017111431 A1 20181129**; CN 110679070 A 20200110; CN 110679070 B 20210810; EP 3631958 A1 20200408; US 10971917 B2 20210406; US 2020177086 A1 20200604; WO 2018215215 A1 20181129

DOCDB simple family (application)  
**DE 102017111431 A 20170524**; CN 201880033322 A 20180509; EP 18724217 A 20180509; EP 2018062059 W 20180509; US 201816615169 A 20180509