

Title (en)
DIGITAL HIGH VOLTAGE POWER SUPPLY

Title (de)
DIGITALE HOCHSPANNUNGSSTROMVERSORGUNG

Title (fr)
ALIMENTATION ÉLECTRIQUE À HAUTE TENSION NUMÉRIQUE

Publication
EP 3688548 A4 20210616 (EN)

Application
EP 18892053 A 20181217

Priority
• US 201762608016 P 20171220
• US 201815893135 A 20180209
• US 2018066052 W 20181217

Abstract (en)
[origin: WO2019126062A1] A digital high voltage power supply having a plurality of filters, a high voltage divider, and a processor with memory. The memory contains operating set points. The processor is configured to receive scaled voltage feedback signals from the high voltage divider, compare the scaled voltage feedback signals to the plurality of operating set points in memory, compute and store revised operating set points using the compared scaled voltage feedback signal, use the revised operating set points to simultaneously and automatically regulate output voltage to be within all operating set points, and generate an alert when output conditions exceed any operating set points.

IPC 8 full level
H02M 3/157 (2006.01); **H02M 3/335** (2006.01); **H02M 1/00** (2006.01)

CPC (source: EP IL KR)
H02M 1/0012 (2021.05 - IL KR); **H02M 3/157** (2013.01 - EP IL KR); **H02M 3/33515** (2013.01 - EP IL KR); **H02M 1/0012** (2021.05 - EP)

Citation (search report)
• [X] US 2016013719 A1 20160114 - BABAZADEH AMIR [US], et al
• [A] US 2016105102 A1 20160414 - WAGNER DANIEL H [US]
• [A] WO 2013181763 A1 20131212 - UNIV TORONTO [CA]
• See also references of WO 2019126062A1

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

DOCDB simple family (publication)
WO 2019126062 A1 20190627; BR 112020012595 A2 20201124; CA 3080026 A1 20190627; CA 3080026 C 20230718; CN 111656300 A 20200911; CN 111656300 B 20220426; EA 202091041 A1 20201006; EP 3688548 A1 20200805; EP 3688548 A4 20210616; IL 274347 A 20200630; IL 274347 B 20220301; JP 2021509000 A 20210311; JP 7098186 B2 20220711; KR 102627537 B1 20240119; KR 20200106486 A 20200914; MX 2020006439 A 20200917; SG 11202005725R A 20200729; TW 201935821 A 20190901; TW I699950 B 20200721; ZA 202002142 B 20210526

DOCDB simple family (application)
US 2018066052 W 20181217; BR 112020012595 A 20181217; CA 3080026 A 20181217; CN 201880077714 A 20181217; EA 202091041 A 20181217; EP 18892053 A 20181217; IL 27434720 A 20200430; JP 2020525865 A 20181217; KR 20207012695 A 20181217; MX 2020006439 A 20181217; SG 11202005725R A 20181217; TW 107146279 A 20181220; ZA 202002142 A 20200504