

UNITED STATES PATENT AND TRADEMARK OFFICE

BEFORE THE PATENT TRIAL AND APPEAL BOARD

SEMICONDUCTOR COMPONENTS INDUSTRIES, LLC d/b/a
ON SEMICONDUCTOR
Petitioner

v.

POWER INTEGRATIONS, INC.
Patent Owner

Case IPR2016-01600
Patent No. 7,834,605

**PATENT OWNERS'
MOTION TO AMEND ***

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a. *“A power supply regulator, comprising”* 7

b. *“a comparator having a first input coupled to sense a voltage representative of a current flowing through a switch during an on time of the switch, the comparator having a second input coupled to receive a variable current limit threshold that increases during the on time of the switch”* 7

c. *“a feedback circuit coupled to receive a feedback signal representative of an output voltage at an output of a power supply”* 9

d. *“a control circuit coupled to generate a control signal in response to an output of the comparator and in response to an output of the feedback circuit, the control signal to be coupled to a control terminal of the switch to control switching of the switch,”* 9

e. *“wherein, for each of a plurality of consecutive control signal cycles each having a first state and a second state, the variable current limit threshold increases during at least a portion of the first state of each control signal cycle and decreases during at least a portion of the second state of each control signal cycle.”* 10

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a. *Claim 14: “The power supply regulator of claim [[1]] 13 further comprising an oscillator having a first output to generate a sawtooth waveform, wherein the variable current limit threshold is generated in response to the sawtooth waveform.”* 13

b. *Claim 15: “The power supply regulator of claim [[2]] 14 wherein the control circuit includes a latch to provide the control signal, wherein the latch includes a reset input coupled to the output of the comparator.”* ... 14

c. *Claim 16: “The power supply regulator of claim [[1]] 13 wherein a duty cycle of the control signal is modulated in response to an output of the feedback circuit.”* 15

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LIST OF EXHIBITS

Exhibit No.	Description
2010	Declaration of Arthur W. Kelley
2011	U.S. Provisional Patent Application No. 60/325,642
2012	File History for U.S. Patent No. 7,834,605
2013	U.S. Patent No. 5,028,861 (“Pace”)
2014	U.S. Patent No. 5,680,034 (“Redl”)
2015	Reserved
2016	Resume of Arthur W. Kelley, Ph.D.

TABLE OF AUTHORITIES

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<i>MasterImage3D, Inc. v. RealD, Inc.</i> , IPR2015-00040	2
<i>Power Integrations, Inc. v. Fairchild Semiconductor Int'l, Inc.</i> , 843 F.3d 1315, 1336 (Fed. Cir. 2016).....	3, 15, 21
<i>Shinn Fu Company of America, Inc. v. The Tire Hanger Corporation</i> , IPR2015-00208	2

OTHER AUTHORITIES

37 C.F.R. § 42.121	1, 2, 3, 4, 6
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