

UNITED STATES PATENT AND TRADEMARK OFFICE

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BEFORE THE PATENT TRIAL AND APPEAL BOARD

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DYNACRAFT BSC, INC.,  
Petitioner,

v.

MATTEL, INC.,  
Patent Owner.

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Case IPR2018-00038  
Patent 7,222,684

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DECLARATION OF PETER VOM SCHEIDT

I, Peter T. vom Scheidt Jr., declare as follows:

(1) I am a Staff Engineer at Fisher-Price in East Aurora, NY, and support the Power Wheels group that designs and develops Fisher-Price's line of battery-powered ride-ons for children.

(2) I started working at Fisher-Price in 2003, and have been continuously employed there since. I have been supporting the Power Wheels group for the past four years.

(3) I graduated from State University of New York at Buffalo in 2003 with a Bachelors of Science degree in Electrical Engineering.

(4) I inspected the electrical assembly of Dynacraft's 24-Volt Disney Princess Carriage. During that process, I found a "soft-start" circuit, a photograph of which is attached as Exhibit A. From my inspection of that circuit, it appears that Dynacraft's board is copied from a previous Fisher-Price soft-start circuit. This is the case because the design is essentially identical in execution.

(5) Attached as the first image in Exhibit A to this declaration is an image of the prior Fisher-Price soft-start circuit board. As the first image shows, Fisher-Price's board has a relay (circled in purple) that is present to address potential issues with failures of the primary field-effect transistors (or FETs, circled in red). Two of these FETs are high power driver FETs, and the third is a pre-driver FET.

(6) Attached as the second image in Exhibit A is an image of the current Dynacraft soft-start circuit board. As the second image shows, Dynacraft's board also has a relay (circled again in purple) and three FETs (circled again in red). Again, two of FETs are high power driver FETs, and the third is a pre-driver FET. The fact that this configuration is effectively the same indicates that Dynacraft or one of its manufacturers developed its board by referencing the Fisher-Price board as a starting point and copying its design. I come to this conclusion because,

in the time that has passed since this original Mattel board was designed by Innovation First, FET design has improved and a company doing its own circuit design work would no longer use the configuration of the older Innovation First board with two of the FETs in parallel and a relay. Much more cost effective, durable FET solutions exist today that even make the relay no longer necessary. A company doing its own circuit design work would have incorporated some of these advances. The fact that none of these solutions were used by Dynacraft, but rather the prior Innovation First design taken in full, evidences to me that the circuit was copied by Dynacraft.

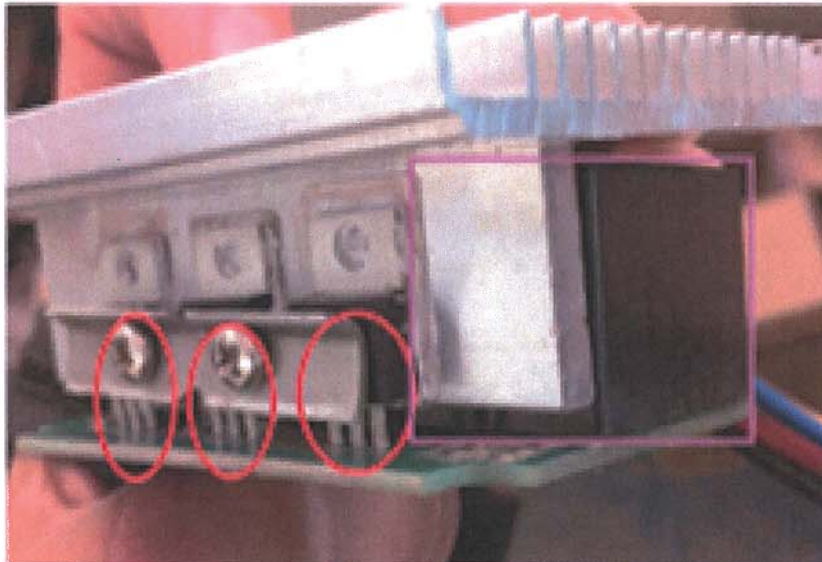
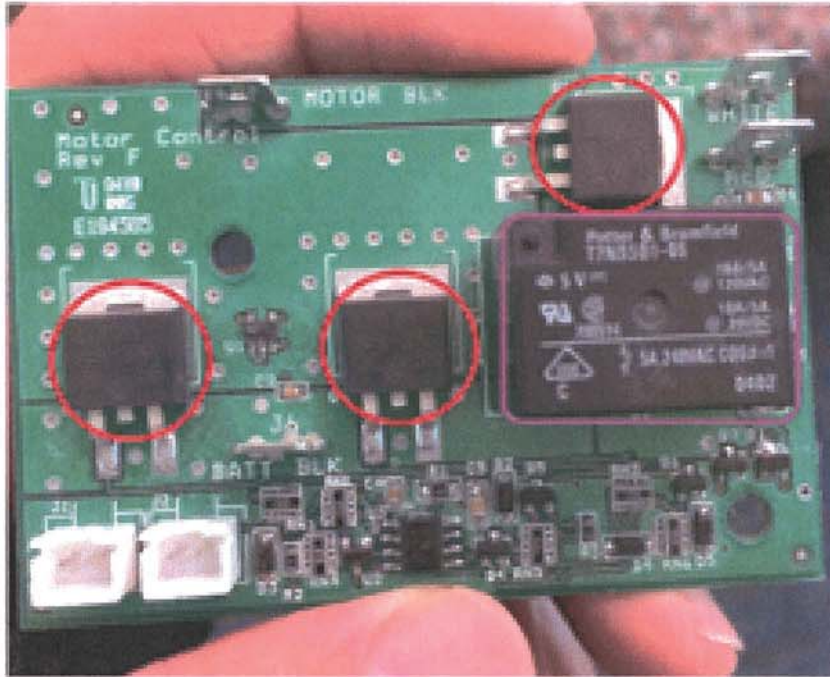
I declare under penalty of perjury pursuant to 28 U.S.C. § 1746 that the foregoing is true and correct.

Executed: \_\_\_\_\_



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Peter vom Scheidt

# Exhibit A



**DYNACRAFT.**