UNITED STATES PATENT AND TRADEMARK OFFICE

BEFORE THE PATENT TRIAL AND APPEAL BOARD

SANTA'S BEST AND POLYGROUP LIMITED (MCO)
Petitioner

v.

VARIABLE LIGHTING, LLC,
Patent Owner

Case IPR2016-01066
Patents 6,285,140 B1

DECLARATION OF MIKE WOOD

Mail Stop "PATENT BOARD"
Patent Trial and Appeal Board
U.S. Patent & Trademark Office
P.O. Box 1450
Alexandria, VA 22313-1450

Santa's Best and Polygroup
Exhibit 1003

DOCKET ALARM
Find authenticated court documents without watermarks at docketalarm.com.

TABLE OF CONTENTS

I. QUALIFICATIONS AND EXPERTISE 4
II. LEGAL UNDERSTANDING 8
A. My Understanding of Claim Construction 8
B. A Person Having Ordinary Skill in the Art 9
C. My Understanding of Obviousness 10
III. BACKGROUND OF TECHNOLOGIES DESCRIBED IN THE '140 PATENT 15
A. Background of Lighting Technologies 15
B. Overview of the '140 patent 17
IV. RELEVANT CLAIM TERMS 20
A. "variable-effect lighting system" 21
B. "a pair of commonly-coupled light-emitting diodes" 22
C. "conduction angle of each said illuminating element" 23
V. OVERVIEW OF THE APPLIED REFERENCES 25
A. Overview of Kazar 25
B. Overview of Smith 27
C. Overview of Gomoluch 32
D. Overview of Minato 33
E. Overview of Lys 34
F. Overview of Sato 35
VI. GROUNDS 35
A. Ground 1: Claims 1, 2, 4, and 5 are obvious over Kazar and Gomoluch 35
1. Claim 1 35
2. Kazar and Gomoluch teach claim 2: "wherein the at least one pattern is selectable according to a user-operable input to the controller." 50
3. Kazar teaches claim 4 "wherein each said multi-coloured lamp comprises a pair of commonly-coupled light-emitting diodes, a first light-emitting diode of the light-emitting diode comprising the first illuminating element and a second light-emitting diode of the light-emitting diode pair comprising the second illuminating element." 53

DOCKET ALARM
Find authenticated court documents without watermarks at docketalarm.com.

4. Kazar teaches claim 5: "The lighting system according to claim 4, wherein the first and second electronic switches form an H-bridge." 55
B. Ground 2: Claim 3 is obvious over Kazar, Gomoluch, and Minato: claim 3 recites "[t]he lighting system according to claim 1, wherein the lamp controller includes a temperature sensor for selecting the at least one pattern," as recited by claim 3. 57
C. Ground 3: Claims 6-9 are obvious over Kazar, Sato, and Gomoluch 58
1. Claim 6 58
2. Kazar, Gomoluch, and Sato teach Claim 7: "The night light according to claim 6, wherein each said predetermined pattern is selectable according to a user-operable input to the controller." 66
3. Kazar, Gomoluch, and Sato teach claim 8: "The night light according to claim 6, wherein each said multi-coloured lamp comprises a pair of commonly-coupled light-emitting diodes, a first light-emitting diode of the light-emitting diode comprising the first illuminating element and a second light-emitting diode of the light-emitting diode pair comprising the second illuminating element." 66
4. Kazar, Gomoluch, and Sato teach claim 9: "The night light according to claim 6, wherein the controller includes an ambient light sensor for inhibiting conduction of the illuminating elements when an intensity of ambient light exceeds a threshold." 67
D. Ground 4: Claims 10-13 are obvious over Kazar, Lys, and Gomoluch 68
1. Claim 10 68
2. Kazar, Gomoluch, and Lys teach claim 11: "The jewelry piece according to claim 10, wherein each said predetermined pattern is selectable according to a user-operable input to the controller." 75
3. Kazar, Gomoluch, and Lys teach claim 12: "The jewelry piece according to claim 10, wherein the lamp controller includes a temperature sensor for selecting the at least one pattern." 75
4. Kazar, Gomoluch, and Lys teach claim 13: "The jewelry piece according to claim 10, wherein each said multi-

DOCKET ALARM Find authenticated court documents without watermarks at docketalarm.com.

coloured lamp comprises a pair of commonly-coupled light-emitting diodes, a first light-emitting diode of the light-emitting diode comprising the first illuminating element and a second light-emitting diode of the light-emitting diode pair comprising the second illuminating element." 77

E. Ground 5: Claims 1, 2, 4, and 5 are obvious over Smith and Gomoluch 77

1. Claim 1 77
2. Smith and Gomoluch teach claim 2: "The lighting system according to claim 1, wherein the at least one pattern is selectable according to a user-operable input to the controller" 94
3. Smith and Gomoluch teach claim 4: "The lighting system according to claim 1, wherein each said multi-coloured lamp comprises a pair of commonly-coupled light-emitting diodes, a first light-emitting diode of the light-emitting diode comprising the first illuminating element and a second light-emitting diode of the light-emitting diode pair comprising the second illuminating element." 96
4. Smith and Gomoluch teach claim 5: "The lighting system according to claim 4, wherein the first and second electronic switches form an H-bridge." 98

F. Ground 6: Claim 3 is obvious over Smith, Gomoluch, and Minato: claim 3 recites "[t]he lighting system according to claim 1, wherein the lamp controller includes a temperature sensor for selecting the at least one pattern." 100

G. Ground 7: Claims 6-9 are obvious over Smith Sato, and Gomoluch102

1. Claim 6 102
2. Smith, Gomoluch, and Sato teach claim 7: "The night light according to claim 6, wherein each said predetermined pattern is selectable according to a user-operable input to the controller." 111
3. Smith, Gomoluch, and Sato teach claim 8: "The night light according to claim 6, wherein each said multi-coloured lamp comprises a pair of commonly-coupled light-emitting diodes, a first light-emitting diode of the light-emitting diode comprising the first illuminating element and a second light-emitting diode of the light-emitting diode pair comprising the second illuminating element." 111

DOCKET ALARM Find authenticated court documents without watermarks at docketalarm.com.

4. Smith, Gomoluch, and Sato teach claim 9: "The night light according to claim 6, wherein the controller includes an ambient light sensor for inhibiting conduction of the illuminating elements when an intensity of ambient light exceeds a threshold."....112
H. Ground 8: Claims 10-13 are obvious over Smith, Lys, and Gomoluch....113
1. Claim 10....113
2. Smith, Gomoluch, and Lys teach claim 11: "The jewelry piece according to claim 10, wherein each said predetermined pattern is selectable according to a user-operable input to the controller."....121
3. Smith, Gomoluch, and Lys teach claim 12: "The jewelry piece according to claim 10, wherein the lamp controller includes a temperature sensor for selecting the at least one pattern."....122
4. Smith, Gomoluch, and Lys teach claim 13: "The jewelry piece according to claim 10, wherein each said multi-coloured lamp comprises a pair of commonly-coupled light-emitting diodes, a first light-emitting diode of the light-emitting diode comprising the first illuminating element and a second light-emitting diode of the light-emitting diode pair comprising the second illuminating element."....124
VII. CONCLUSION....124

DOCKET ALARM Find authenticated court documents without watermarks at docketalarm.com.

DOCKET ALARM

Explore Litigation Insights

Docket Alarm provides insights to develop a more informed litigation strategy and the peace of mind of knowing you're on top of things.

Real-Time Litigation Alerts

Keep your litigation team up-to-date with **real-time alerts** and advanced team management tools built for the enterprise, all while greatly reducing PACER spend.

Our comprehensive service means we can handle Federal, State, and Administrative courts across the country.

Advanced Docket Research

With over 230 million records, Docket Alarm's cloud-native docket research platform finds what other services can't. Coverage includes Federal, State, plus PTAB, TTAB, ITC and NLRB decisions, all in one place.

Identify arguments that have been successful in the past with full text, pinpoint searching. Link to case law cited within any court document via Fastcase.

Analytics At Your Fingertips

Learn what happened the last time a particular judge, opposing counsel or company faced cases similar to yours.

Advanced out-of-the-box PTAB and TTAB analytics are always at your fingertips.

API

Docket Alarm offers a powerful API (application programming interface) to developers that want to integrate case filings into their apps.

LAW FIRMS
Build custom dashboards for your attorneys and clients with live data direct from the court.

Automate many repetitive legal tasks like conflict checks, document management, and marketing.

FINANCIAL INSTITUTIONS
Litigation and bankruptcy checks for companies and debtors.

E-DISCOVERY AND LEGAL VENDORS
Sync your system to PACER to automate legal marketing.