



i series

INDESTRUCTIBLE



OUR STORY



Pictured above in the early days from left to right:
SKB Owners/Founders - Dave Sanderson and Steve Koltman



In 1977, the first SKB case was manufactured in a small Anaheim, California garage. Today SKB engineers cases for hundreds of companies involved in many diverse industries as well as military applications. We have a true sense of accomplishment for more than 33 years of steady growth and for our adherence to quality standards that made us industry leaders. We never lose sight of the fact that our customers give us the opportunity to excel and their challenges allow us to develop and grow. We are grateful for their trust and loyalty and we remain dedicated to the assurance that every case with a SKB logo has been manufactured with an unconditional commitment to unsurpassed quality.



SKB's iSeries cases have been designed and engineered to meet the most stringent standards such as: STANAG 4280, DEF-STAN 81-41, MIL-STD-810F, MIL-STD-2073, MIL-STD-C-4150J, ATA 300 and many others.



When keyed latches are not appropriate for the application, we also offer TSA accepted pad locks that can be used on the iSeries, or any SKB case that includes lock hasps.



When it comes to rapid-deployment, nobody beats the "Trigger Latch™"! The smartest latch in the case business stays closed — until you want it open. And then it's a one-finger operation. Fast and knuckle friendly. Molded out of unbreakable glass-reinforced Nylon. We even have key locking versions available that are TSA accepted.

US007540364B2

(12) **United States Patent**
Sanderson

(10) Patent No.: **US 7,540,364 B2**
(45) Date of Patent: **Jun. 2, 2009**

(51) **TRIGGER LATCH ASSEMBLY** 5,111,920 A * 5/1992 Caselli et al. 1997/20
5,222,839 A * 1/1993 Nichols et al. 2927/13
5,271,669 A * 2/1993 Ozonoff 2927/13
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6,640,807 B1 * 1/2003 Gipson 2470/1
10,483,436 S 1/2003 Tealey 2470/1
6,805,301 B2 * 10/2005 Pifer et al. 2820/13

(71) Applicant: **SKB Corporation, Orange, CA (US)**

(75) Inventor: **David B. Sanderson, Villa Park, CA (US)**

(73) Assignee: **SKB Corporation, Orange, CA (US)**

(*) Notice: Subject to any disclaimer, the term of this patent is extended or adjusted under 35 U.S.C. 154(b) by 758 days.

(21) Appl. No.: **10/932,682** DR 402353 A1 * 1/1999
(22) Filed: **Sep. 1, 2004** FR 2041932 A1 * 7/1996

(65) **Prior Publication Data**
US 2006/0042897 A1 Mar. 2, 2006

(51) Int. Cl. 4EFC 2/00 (2006-01)
(52) U.S. Cl. 190/119; 190/120; 130/324
(58) Field of Classification Search: 2150/19-122; 252/102; 48; D1G; 49; 190/19-122; 220/224
See application file for complete search history.

(56) **References Cited**
U.S. PATENT DOCUMENTS
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4,999,865 A 2/1991 Pae
5,111,918 A * 5/1992 Boko et al. 1993/18 A

(57) **ABSTRACT**
A trigger latch assembly for releasably securing a latch by pivotal rotation comprising a latch trigger pivotally joined to a rotatable latch cover. The trigger latch assembly may be attached to a variety of devices including luggage type transport cases. A latch trigger bearing member is attached to the latch trigger and also engages the latch cover. The latch trigger has a perpendicularly extending member having a detent which pivotally engages a retaining lip on a device to be latched when downward force is applied to the latch cover which pivotally rotates the latch trigger in cooperation with the bearing member, thereby latching closed the device. The latch is released by pivoting rotating the trigger latch towards the latch cover to displace the detent from engagement with the lip to thereby unlatch the device.

4 Claims, 4 Drawing Sheets

ISO 9001:2000

CRT LABORATORIES, INC.
1080 North Main Street, Orange, CA 92667
(714) 283-2832 • (800) 597-4ABS (5272) • Fax: (714) 283-1565
www.crtlabs.com • e-mail: crtinfo@pactel.net

TEST REPORT PAGE 1 OF 1
FOR: SKB
434 W. Levers Place
Orange, CA 92667
Tel: (714) 685-5206 / Fax: (714) 637-0491
ATTN: Mr. Robert Wilkes
IWR NO.: 16661 DATE: March 14, 2006

BACKGROUND: Customer submitted three (3) samples for impact testing. The samples 2 and 3 were received on 03/06/2006; sample 1 was received on 4/10/2006 via customer delivery. Visual inspection was performed on dates received and no product defects were noted. Sample submitted to determine impact strength. Testing to be performed per customer P.O. No. "Verbal Robert" and signed CRT quotation dated 03/06/2006. Comparison data from LWR 16612 dated 03/14/2006 is included in this report. The following additional information is provided:
CRT Order Entry Log Date: 04/10/2006
Product Description: Attached cases - material cut from center of top lid
1) SKB IH COPP
2) [REDACTED]
PREPARATION: Machining - per ASTM D 256 by CRT methods
Conditioning - ASTM D 618, 40 hours in a standard laboratory environment
TEST METHOD: Izod Impact (ft-lbs) - Per ASTM D 256-05a

TEST RESULTS:

Sample ID	Izod Value (ft-lbs)	Impact Strength (ft-lbs/in)
1) SKB IH COPP	1.23	2.71
2) [REDACTED]	0.47	2.71
3) [REDACTED]	0.37	2.16

Specimens Retain Bin: 407 (30 day hold only)

CRT LABORATORIES, INC.
UL Registered ISO 9002 / ISO 17025 Compliant

Ken A. LeJeune
President / Laboratory Director

Tom J. Parsons
General Manager

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INFRASTRUCTURE



SUPERIOR INTERIORS: No other case company on the Planet has the in-house foam/interior fabrication capabilities that SKB has. From our molded EPS presses in Mexicali, Mexico, to our state-of-the-art water-jet in Orange, California — we can do all of the foam processes, with all of the materials in-house.

When we made the decision to enter the large injection molded case business, we knew we had to have the best machinery in the World — and we searched the World to find it. The result: The most modern and efficient large injection molder in the U.S. 1300 tons of clamp pressure, a 25lb. shot capacity, with robotic part extraction and capable of handling 30,000 lb. + tools. As for new technology, our servo controlled hydraulic pumps run only when needed which saves an incredible 65% on electricity! Our “repetitive pack” shot technology does away with the use of “blowing agents” in our plastic which eliminates that “swirl look.”

i series

Watertight/dust proof design using tongue & groove construction and a replaceable o-ring seal to achieve an IP-67 rated protective case.

Ultimate impact strength polypropylene co-polymer provides unsurpassed protection and is lighter while being multiple times stronger than the competition.

Automatic ambient pressure equalization valve allows case to “Free Breathe” and equalize pressures caused by altitude or temperature change while keeping water molecules out, even when submersed.

Extra wide lift/carry handle for comfortable balance/2 hand lift.

Patented “Trigger Latches” stay closed until you want them opened. Key locking “TSA” accepted versions are available.

Secure interlocking features ensure stable stacking on uneven surfaces.

Reinforced padlock hasps allow the use of standard size padlocks for added security. SKB TSA accepted padlocks are an available accessory.

Flush snap-down overmolded handle for 2 man lift on large or long cases. Cushion grip overmold material reduces hand fatigue.

Quiet glide polyurethane in-line skate style wheels with factory lubricated sealed ball bearings ensure smooth trouble free movement.

OD Green



Desert Tan



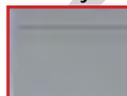
Safety Yellow



Safety Orange



Grey

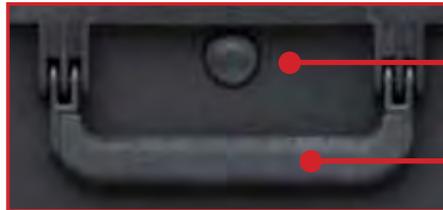


Custom colors, Special options, and interiors are available, contact any SKB Team Member for details.

I series

SKB Industrial Division innovates and manufactures indestructible cases and racks for industry and the military. We never lose sight of the fact that our customers give us the opportunity to excel and their challenges allow us to develop and grow. Our Industrial Cases, Shipping Cases, Waterproof Cases, MIL-STD Cases and Racks are unsurpassed in quality. Trust your valuable cargo to the World's most recognized and respected transport system manufacturer - SKB CASES.

With 17 case sizes and counting, we are the NEW industry leader in product design, customer service, and support.



Automatic ambient pressure equalization valve.

Flush snap-down rubber overmolded handle.



3i-0907-4

INSIDE L x W x H	LID DEPTH	IBASE DEPTH
9.50" x 7.38" x 4.13"	1.19"	2.94"

SUGGESTED APPLICATIONS:

- Satellite phones
- Hard drives
- Digital video recorders



3i-0907-6

INSIDE L x W x H	LID DEPTH	IBASE DEPTH
9.38" x 7.38" x 6.13"	1.19"	4.94"

SUGGESTED APPLICATIONS:

- Digital SLR camera gear
- Marine and aviation radios
- Multiple microphones

INDESTRUCTIBLE



3i-1209-4

INSIDE L x W x H	LID DEPTH	IBASE DEPTH
12" x 9" x 4.50"	1.50"	3"

SUGGESTED APPLICATIONS:

- Electronic test meters
- GPS systems
- Digital recorders



3i-1610-5

INSIDE L x W x H	LID DEPTH	IBASE DEPTH
16" x 10" x 5.50"	2"	3.50"

SUGGESTED APPLICATIONS:

- Communications gear
- EPIRB emergency locators
- Night vision equipment
- Binoculars



3i-1711-6

INSIDE L x W x H	LID DEPTH	IBASE DEPTH
17" x 11.50" x 6"	1.75"	4.25"

SUGGESTED APPLICATIONS:

- Pistols – Hand weapons
- Signal processors
- Test & Calibration equipment
- Sensitive optics



3i-1813



i series



3i-1813-5

MIL-STANDARD, SUBMERSIBLE, MULTI-FUNCTIONAL
TRANSPORT SERIES.



3i-1813-5

INSIDE L x W x H	LID DEPTH	IBASE DEPTH
18.50" x 13" x 4.75"	1.50"	3.25"

SUGGESTED APPLICATIONS:

- Multiple radios
- Portable video surveillance systems
- Laptop computers
- Wireless microphone systems



3i-1813-7

INSIDE L x W x H	LID DEPTH	IBASE DEPTH
18.50" x 13" x 7"	1.50"	5.50"

SUGGESTED APPLICATIONS:

- Portable defibrillators
- Crime scene evidence kits
- Portable secure communications equipment
- Personal first aid supplies



3i-1914-8

INSIDE L x W x H	LID DEPTH	IBASE DEPTH
19" x 14.38" x 8"	2"	6"

SUGGESTED APPLICATIONS:

- Video camera & gear
- Technician tool kits
- Cables/grip supplies/tools



3i-5014-6

i series





3i-4214-5

INSIDE L x W x H	LID DEPTH	IBASE DEPTH
42.50" x 14.50" x 5.50"	1.50"	4"

SUGGESTED APPLICATIONS:

- Military weapons and gear
- Communication antennas
- Electric guitars*
- Hunting/competition parallel limb and recurve bows

*MODEL 4214-66 PICTURED: visit www.skbcases/music for details



Custom interiors available. Challenge us with your requirements.

3i-5014-6

INSIDE L x W x H	LID DEPTH	IBASE DEPTH
50.50" x 14.50" x 6"	1.50"	4.50"

SUGGESTED APPLICATIONS:

- Oil industry down hole tools & instruments
- Hunting / competition rifles
- Bass guitars*
- Electronic keyboards/synthesizers





3i-2011



i series



3i-2011-8

MIL-STANDARD, SUBMERSIBLE, MULTI-FUNCTIONAL
TRANSPORT SERIES.



3i-2011-7

INSIDE L x W x H	LID DEPTH	IBASE DEPTH
20.38" x 11.44" x 7.50"	2"	5.50"

SUGGESTED APPLICATIONS:

- Effects pedals
- Projectors and presentation equipment
- Camera gear

Our Co-polymer Polypropylene shell material was independently lab tested utilizing "notched izod" impact testing (ASTM D256-05a) and shown to be over 2½ times stronger than the competition. This enables us to make a Lighter, Stronger and Smarter case! — <http://ftp.skbcases.com/Test Results/>



3i-2011-8

INSIDE L x W x H	LID DEPTH	IBASE DEPTH
20.38" x 11.44" x 8.25"	2"	6.25"

SUGGESTED APPLICATIONS:

- Multiple microphones
- Medical devices and equipment
- Microscopes
- Communication repeaters



3i-2015



3i series



3i-2015-10

MIL-STANDARD, SUBMERSIBLE, MULTI-FUNCTIONAL
TRANSPORT SERIES.



Our “Million Mile Warranty” guarantees that if you break it—we replace it for free—for life! — www.skbcases.com/warranty



3i-2015-7

INSIDE L x W x H	LID DEPTH	IBASE DEPTH
20.50" x 15.50" x 7"	2"	5.50"

SUGGESTED APPLICATIONS:

- Infrared digital imaging equipment
- DJ gear
- Audio mixers
- Gas detection monitors

3i-2015-10

INSIDE L x W x H	LID DEPTH	IBASE DEPTH
20.50" x 15.50" x 10"	2"	8"

SUGGESTED APPLICATIONS:

- Racing telemetry stations
- Big game fishing reels and tackle
- Telescopes
- Mapping equipment



3i-2217-8

INSIDE L x W x H	LID DEPTH	IBASE DEPTH
22" x 17" x 8"	2"	6"

SUGGESTED APPLICATIONS:

- Search and rescue gear
- Military lighting
- Monitors
- Portable power systems

Our “repetitive pack” shot technology does away with the use of “blowing agents” in our plastic which eliminates that “swirl look.”



3i-2317-14

INSIDE L x W x H	LID DEPTH	IBASE DEPTH
23" x 17" x 14"	2.50"	11.50"

SUGGESTED APPLICATIONS:

- Multiple laptops
- Power tool and accessories
- Survey equipment
- Robotic gear and controllers



3i-2918-14

INSIDE L x W x H	LID DEPTH	IBASE DEPTH
29" x 18" x 14"	2.50"	11.50"

SUGGESTED APPLICATIONS:

- Emergency preparedness kits
- SCUBA gear
- Military foot lockers
- Stage lighting

i series

CASE SPECIFICATIONS & FEATURES

PART#	INSIDE L x W x H	LID DEPTH	IBASE DEPTH	PULL HANDLE/WHEELS	DIVIDERS	CUBED	LAYERED
3i-0907-4	9.50" x 7.38" x 4.13"	1.19"	2.94"		X	X	X
3i-0907-6	9.38" x 7.38" x 6.13"	1.19"	4.94"		X	X	X
3i-1209-4	12" x 9" x 4.50"	1.50"	3"		X	X	X
3i-1610-5	16" x 10" x 5.50"	2"	3.50"		X	X	X
3i-1711-6	17" x 11.50" x 6 "	1.75"	4.25"		X	X	X
3i-1813-5	18.50" x 13" x 4.75"	1.50"	3.25"		X	X	X
3i-1813-7	18.50" x 13" x 7"	1.50"	5.50"		X	X	
3i-1914-8	19" x 14.38" x 8"	2"	6"	X	X	X	X
3i-2011-7	20.38" x 11.44" x 7.50"	2"	5.50"	X	X	X	
3i-2011-8	20.38" x 11.44" x 8.25"	2"	6.25"		X	X	
3i-2015-7	20.50" x 15.50" x 7.50"	2"	5.50"		X	X	
3i-2015-10	20.50" x 15.50" x 10"	2"	8"	X	X	X	
3i-2217-8	22" x 17" x 8"	2"	6"		X	X	
3i-2317-14	23" x 17" x 14"	2.50"	11.50"	X		X	
3i-2918-14	29" x 18" x 14"	2.50"	11.50"	X		X	
3i-4214-5	42.50" x 14.50" x 5.50"	1.50"	4"	X			X
3i-5014-6	50.50" x 14.50" x 6"	1.50"	4.50"	X			X



CUSTOM FOAM SHOP INSPIRED BY THE 'OL SPEED SHOPS OF THE 60'S.



In addition to Cubed foam, layered foam and padded dividers, SKB now offers custom foam interiors. Our Water Jet foam cutting machine uses a CNC controlled 40,000 psi stream of water to cut through foam like butter. Using water as

the "blade" provides the capabilities of cutting very precisely while not damaging the foam. It is also very efficient for prototyping and creating "one-off" cases. These capabilities provide a custom fit for your gear and ensures maximum protection.



17 SIZES and COUNTING.

3i-0907-4

3i-0907-6

3i-1209-4

3i-1610-5

3i-1711-6

3i-1813-5

3i-1813-7

3i-1914-8

3i-2011-7

3i-2011-8

3i-2015-7

3i-2015-10

3i-2217-8

3i-2317-14

3i-2918-14

3i-4214-5

3i-5014-6

MADE IN USA
ORANGE COUNTY, CA

CORPORATE & MANUFACTURING HEADQUARTERS

434 W. Levers Place, Orange CA 92867
ph: 714.637.1252

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Sierra Cases

1.888.800.7728

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