

Product Design Session 5 - Industrial Design | Crowdsourcing

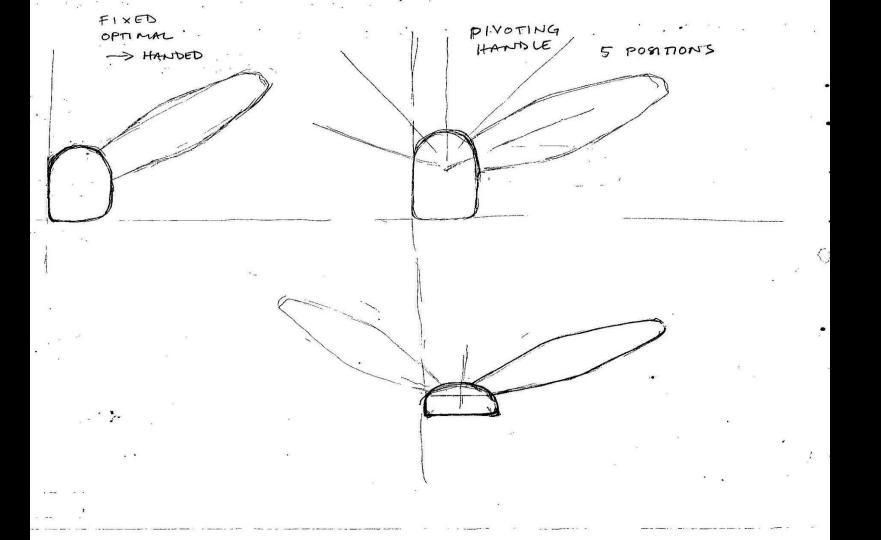
Professor Karl T. Ulrich
Vice Dean of Entrepreneurship & Innovation

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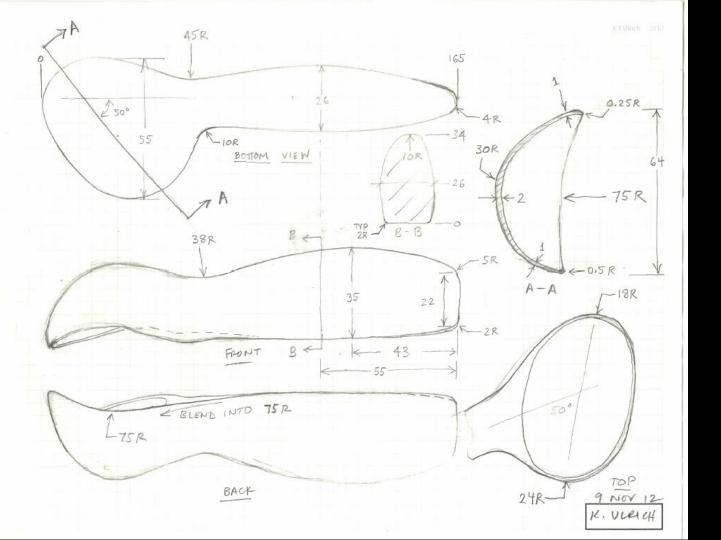


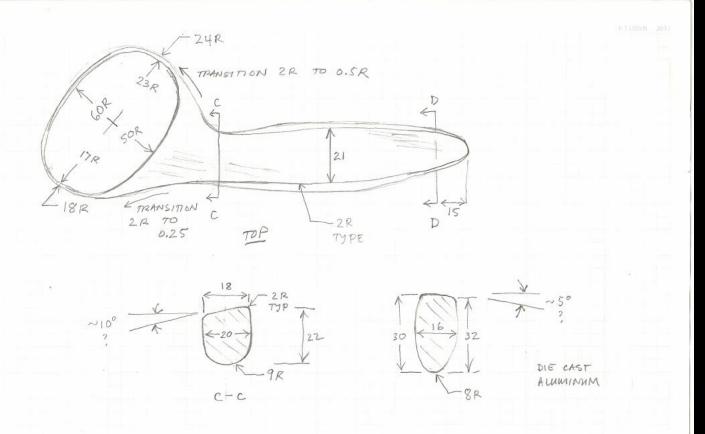












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For Many Products, Aesthetic Response is a Paramount Objective





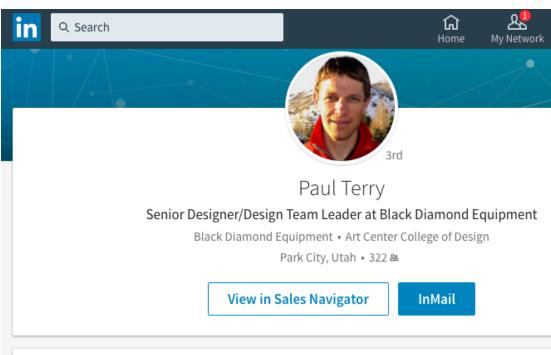






All Products Can Benefit from Positive Aesthetic Response





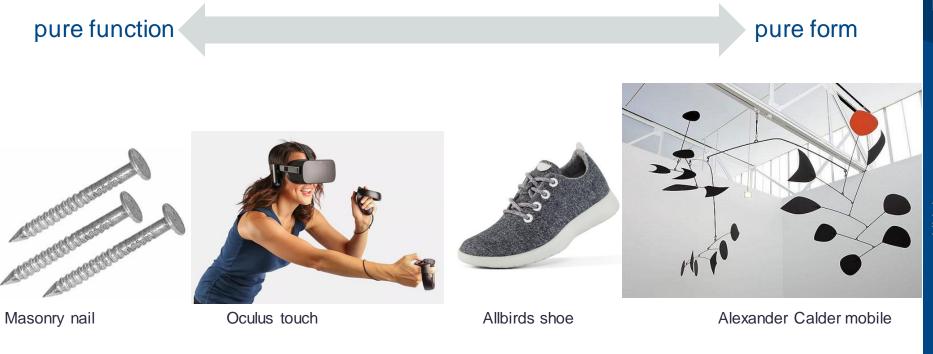
Experience



Senior Designer/Design Team Leader

Black Diamond Equipment
Oct 2004 – Present • 12 yrs 5 mos • Salt Lake City

Industrial designers are product designers skilled in creating aesthetic forms.



Engineering Design Industrial Design Fine Arts

IPD (+ business)

Design Arts

Partnership with Lunar Design and Alan Cook















Models for Engaging "The Crowd"

Product Development



"Kickstarter-Style" Pledges



Pre-Orders



(Chris Tsai WG13)

Equity Crowdfunding

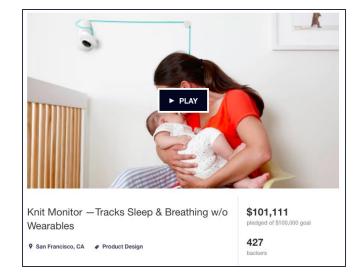


KU interview with Slava Rubin W00, co-founder of Indiegogo:

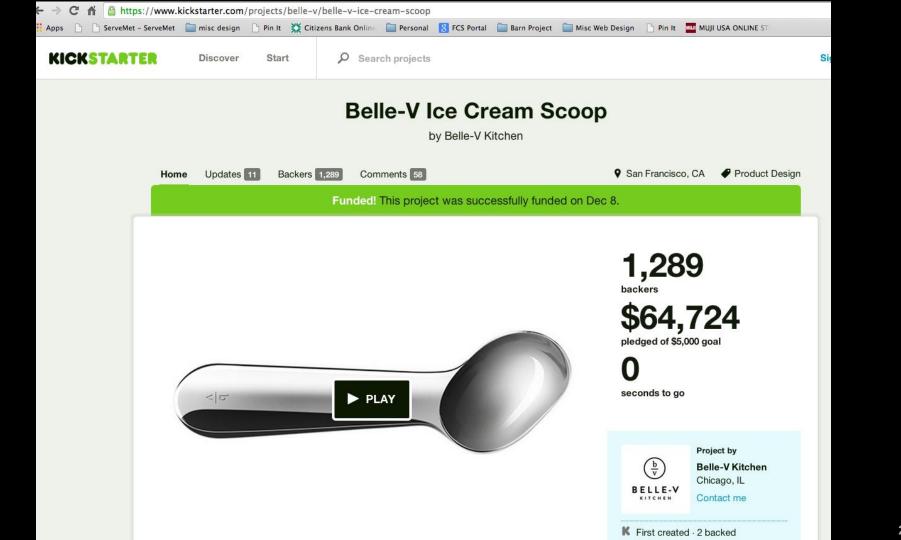
Kickstarter (as of 2018)

- 391k launched campaigns.
- 4k projects currently live.
- 3.5 B USD pledged to date.
- 3.1 B USD "successful" funding.
- 139k successful projects (36%).
- Majority of successful projects raise less than 10k USD.
- Successful projects usually barely achieve goal.
 Unsuccessful projects usually miss by a lot.
- Projects raising more than 50k USD have median shipping delay of 6 months.





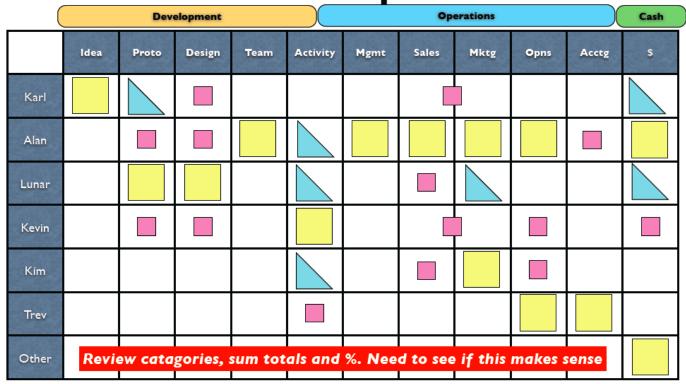








Ownership Model



(12) United States Design Patent (10) Patent No.: Ulrich et al.

(45) Date of Patent:

US D713,219 S ** Sep. 16, 2014

(54) ICE CREAM SCOOP

(71) Applicant: Belle-V, LLC, Chicago, IL (US)

(72) Inventors: Karl T. Ulrich, Philadelphia, PA (US); Jeffrey Allen Salazar, Palo Alto, CA (US); Alan J. Cook, Chicago, IL (US); Jeff Smith, San Francisco, CA (US); Kevin John Augustyniak, Elma, NY (US); Gerard Furbershaw, Menlo Park, CA (US); Kenneth D. Wood, Portola Valley, CA (US)

(73)	Assignee:	Belle-V.	LLC.	Chicago.	.IL	(US)

	(**)	Term:	14 Years
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(21) Appl. No.: 29/468,569

Oct. 1, 2013

USPC

(51)	LOC (10) CL	 07-99	
	(52)	U.S. CL	

(58) Field of Classification Search

CPC .	A47J 43/282
USPC	D7/680-696, 368, 669, 395, 393;
	30/324-328; 425/187, 276-286, 299,
	425/DIG 13: 204/176 180

See application file for complete search history.

References Cited

U.S. PATENT DOCUMENTS

D475,899	S	٠	6/2003	Ming-Shi	ue	D7/681
D505,303	S	*	5/2005	Crowley		D7/681

^{*} cited by examiner

Primary Examiner - Terry Wallace

(74) Attorney, Agent, or Firm - Michael J. Femal; Much

CLAIM

The ornamental design for an ice cream scoop, as shown.

DESCRIPTION

FIG. 1 is a perspective view of an ice cream scoop with a two piece handle showing our new design; FIG. 2 is a right side elevation of the ice cream scoop of FIG.

FIG. 3 is a left side elevation of the ice cream scoop of FIG. 1; FIG. 4 is a top end view of the ice cream scoop of FIG. 1;

FIG. 5 is a bottom end view of the ice cream scoop of FIG. 1; FIG. 6 is a top view of the ice cream scoop of FIG. 1; and

FIG. 7 is a bottom view of the ice cream scoop of FIG. 1. FIG. 8 is a perspective view of an ice cream scoop of an unitary construction showing our new design;

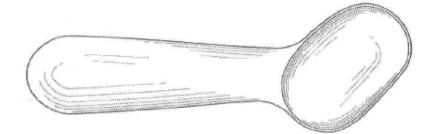
FIG. 9 is a right side elevation of the ice cream scoop of FIG..

FIG. 10 is a left side elevation of the ice cream scoop of FIG.

FIG. 11 is a top end view of the ice cream scoop of FIG. 8; FIG. 12 is a bottom end view of the ice cream scoop of FIG.

FIG. 13 is a top view of the ice cream scoop of FIG. 8; and, FIG. 14 is a bottom view of the ice cream scoop of FIG. 8.

1 Claim, 6 Drawing Sheets



D7/681

Claim 1 from Utility Patent 9,173,527

- 1. An ergonomically designed ice cream scoop, comprising:
- a handle:
- and a scoop head integrally attached to the handle
 - having an irregular bowl for receiving an ice cream therein
 - with a generally spadeshaped leading edge
 - integral with a portion of the bowl and
 - extending outwardly therefrom for scooping an ice cream out of a container.
- wherein the bowl is generally an oblong shaped scoop member attached at one end of the handle at an approximately 45 degree angle from a longitudinal axis running the length of the handle.



HOST & ENTERTAIN

SERVE

PREPARE









EIGHT FIVE SEVEN SIX

PRODUCT DESIGNERS ALESSI WORLD BLOG

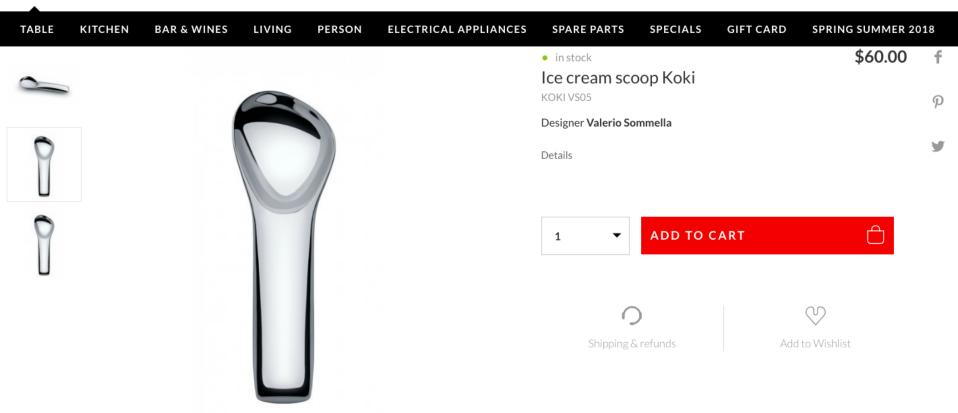














NEWS & INFO EDUCATION MEMBERSHIP **AWARDS OPPORTUNITIES**

Belle-V



f Share

Silver Kitchens 2014

The Belle-V ice cream scoop is a solid aluminum scoop with a classic, ergonomic design that is made to last. The angled head works with the natural rolling action of a user's wrist to give maximum leverage to easily scoop the hardest ice cream. The spade-shaped edge helps users get into those hard-to-reach corners at the bottom of the ice cream container.

Designed by Jeff Salazar, IDSA, Karl Ulrich, Alan Cook, Gerard Furbershaw, Jeff Smith, Junggi Sung and Ken Wood of Belle-V



GALLERY

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STATUS Winner

AWARD CATEGORY Product Design

YEAR 2014



124 ⊙ 1713

Engineering, Industrial Design, Prod...



Lendstar

by LUNAR

im 10 ⊙ 499

Interaction Design, Product Design, ...



NOVA

by LUNAR

1 6 72 ○ 1097

Interaction Design, Product Design, ...



Mobilegear.com



SF Prep





What's the Scoop?

- No product category is so mature you can't innovate.
- No product is so simple that it doesn't present commercialization challenges.
- Conceptual insight + excellent industrial design = wow product.
 - Business discipline also important!
- Crowdfunding can be a nice way to launch a product.
- Great product does not ensure a great stand-alone business.



Tech

Penn alum creates 'smart' glasses

By Haley Suh 11/16/16 1:23am







Vue: Your Everyday Smart Glasses

San Francisco, CA Product Design

\$2,215,583

pledged of \$50,000 goal

10,410 backers

1.289

seconds to go

\$64.724

Belle-V Ice Cream Scoop

Funded! This project was successfully funded on Dec 8

Updates 11 Backers 1,289 Comments 58

Best Practice for Crowdfunding (e.g., Kickstarter, Indiegogo)

- Create a great product.
- Signal preparedness to funders.
 - Excellent video.
 - Reputation and social proof of competence.
 - e.g., cite prior employers and/or relevant experience by name.
 - Care and attention to detail.

- Develop and exploit your own strong social network.
- Set funding goal that enables you to deliver product on time.
- Plan carefully in order to set a realistic funding goal and ensure eventual ability to deliver on promises.

e.g., a spelling error in the pitch is associated with 13% lower chance of funding. K First created - 2 backed

Reference:

Ethan Mollick. 2013. The dynamics of crowdfunding: An exploratory study. Journal of Business Venturing.

Industrial Design – Learning More

Classes at Penn under IPD Program.

http://ipd.me.upenn.edu/pipd-academics/courses/

Blogs

- http://www.core77.com/blog/
- http://www.fastcodesign.com/
- ...lots more via Google.

Movies

- Objectified
- Eames: The Architect and the Painter
- Helvetica (mostly about graphic design, but still interesting and relevant)







