

Marker Refill Station: Refills whiteboard makers overnight, uses capillary action, holds months of ink in reservoir.



Easy Jar Opener: Attaches below upper kitchen cabinets, grip jar with two hands and twist cap off easily.



Barbeque Table: Removable cutting board for meats and veggies, holds sauces, utensils, drinks and more.



Bartender's Pour Spout: Times the pouring of liquor drinks, green-yellow-red LED light sequence shows when one shot is poured.







All photos courtesy of Allesi S.P.A. Products

Kettle with purple bird shaped whistle









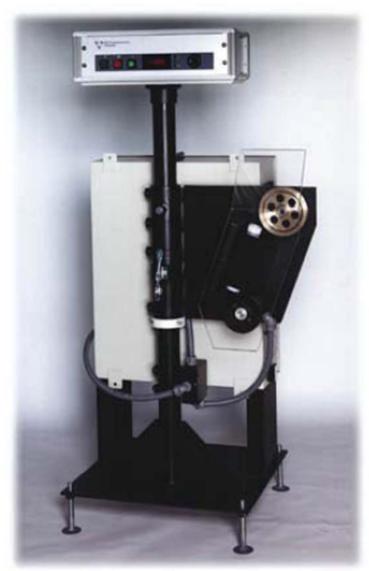
Examples B

Dr.Skud Flyswatter

Examples C



Ultrasound machine



Wire Manufacturing Machine

Examples D





Aeron Work Chair

Examples E





Medical equipment

Sports utility vehicle

Development time and cost...









Some product examples









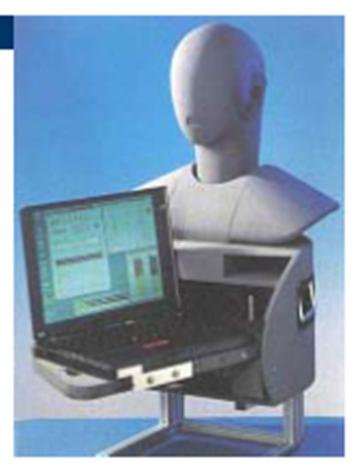


www.ideo.com



Acoustic "Listening" Devices



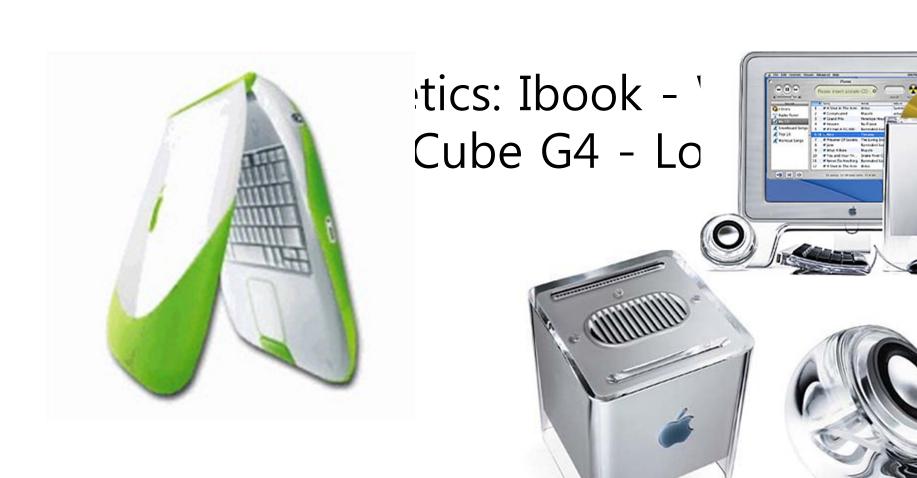


Integral Product Architectures

- Functional elements are implemented by multiple chunks, or a chunk may implement many functions.
- Interactions between chunks are poorly defined.
- Integral architecture generally increases performance and reduces costs for any specific product model.



Compact Camera



Product Development Economics Example: Polaroid Color Photo Printer



Visual Information Example: Book Bag Design







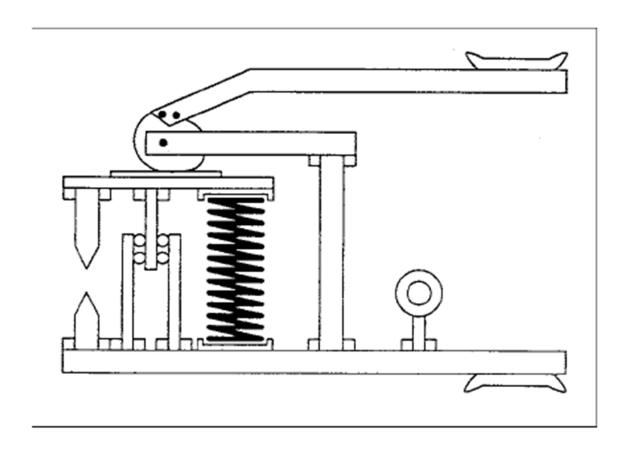


Example: Stanley Hammer



- Designed in 1995 by Product Genesis for Stanley Tools
- Contractor Grade[™]
- Graphite composite shaft
- Soft rubber grip
- Sells for \$20

What is this?



Modular Product Architectures

- Chunks implement one or a few functions entirely.
- Interactions between chunks are well defined.
- Modular architecture has advantages in simplicity and reusability for a product family or platform.



Swiss Army Knife



Sony Walkman

Prototyping Example: Apple PowerBook Duo Trackball



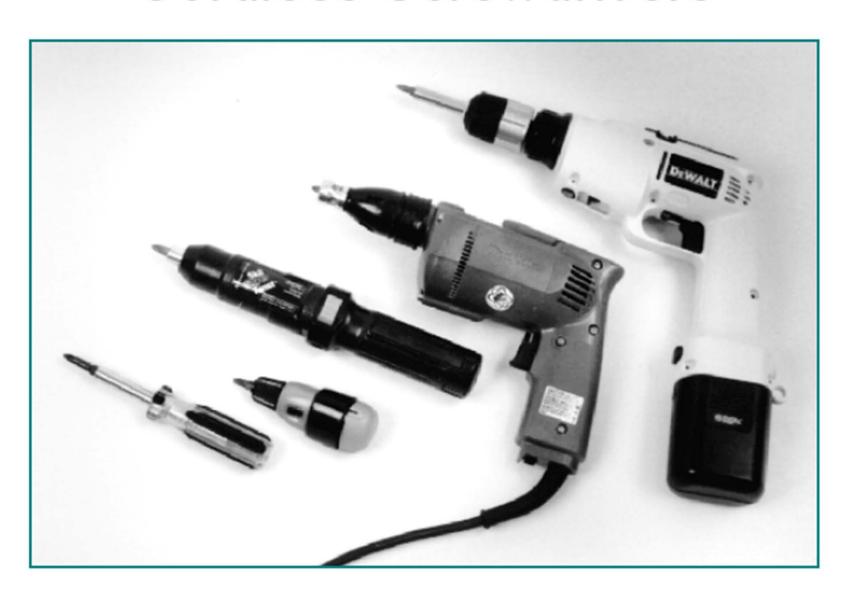
Concept Selection Exercise: Mechanical Pencils



Concept Testing Example: emPower Electric Scooter



Customer Needs Example: Cordless Screwdrivers



Concept Generation Example: Power Nailer



Concept Generation Exercise: Vegetable Peelers



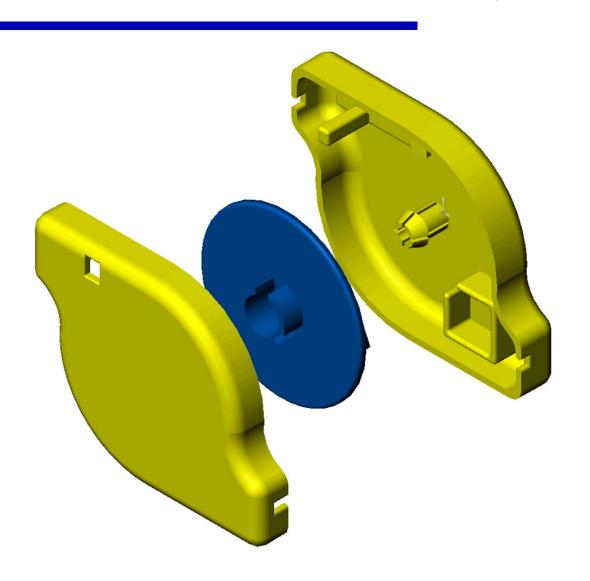
Black & Decker SnakeLight Flexible Flashlight







Simple Assembly



Product Specifications Example: Mountain Bike Suspension Fork



Special Facilities





The Alternative is equipped with the XLT Preferred Package. This package includes a roomy SuperCab with passenger side access door. In addition, the Alternative is equipped with a color-keyed grille, an enhanced chrome front bumper, and aerodynamically styled halogen headlamps.

BASELINE

4x4 XLT Package

\$19,200



Buy Baseline

ALTERNATIVE

4x4 XLT w/SuperCab

\$24,000



Buy Alternative

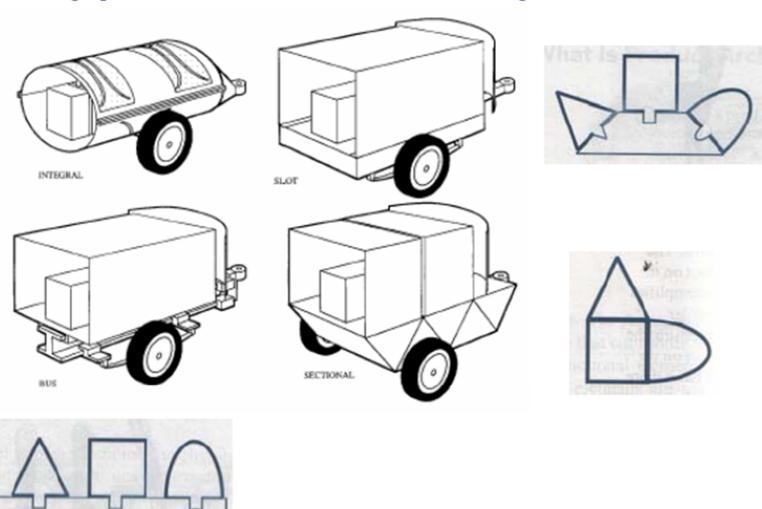
Ford Taurus Integrated Control Panel





Newer models manufactured by Xerox Corporation.
Used with permission

Types of Modularity



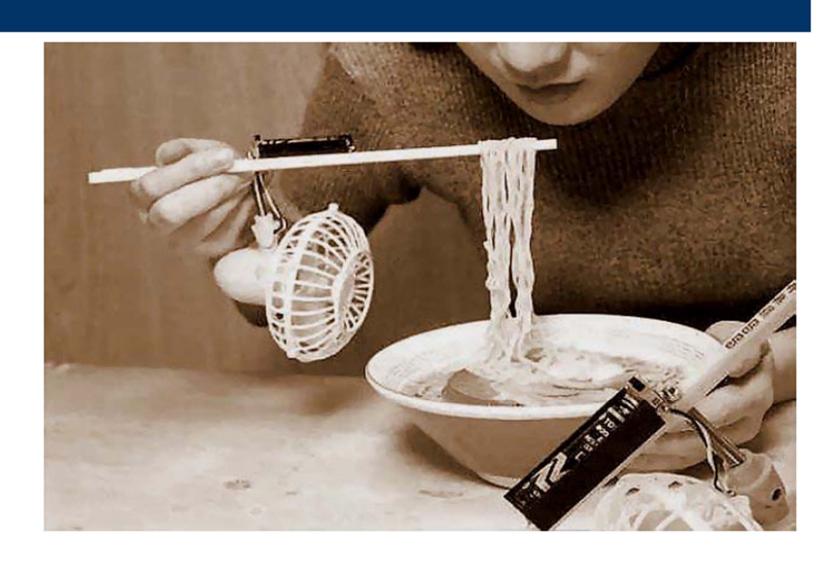


Example: Flight Refuelling Probe

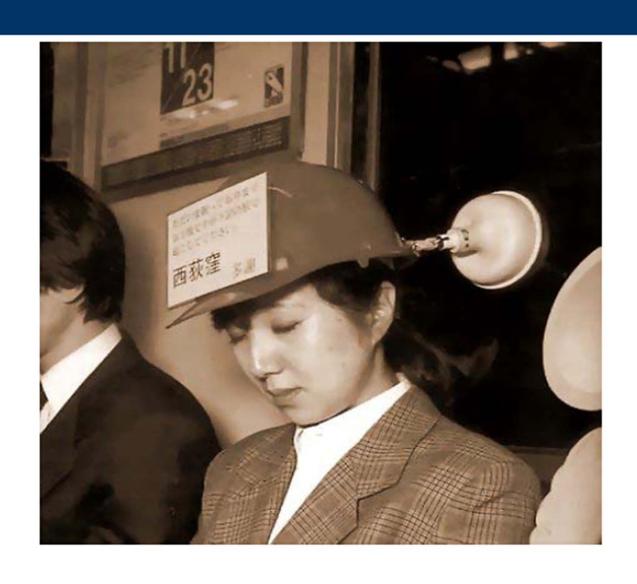




Only in Japan!



..... What's this one about?



Why do new products flop?

- 28% the better mousetrap that nobody wanted
- 24% the "me too" product that offered no advantage
- 15% competitive response
- 13% technical "dog"
- 13% cost crunch
- 7% plain and simple ignorance

Edison

- 독서가이며 속독, 뛰어난 기억력에 의한 폭넓은 지식의 소유자.
- 대학교육 등기존의 교육이나 상식을 경시했고 현장교육 을 중시했다.
- 왕성한 호기심이나 개척정신과 동시에 집착심, 대항심이 강하고 노력하는 사람.
- 사물을 전체로서 보려는 발상법, 치밀하게 관찰하며 숙고하여 상호관련을 이해한다.
- 장래를 내다보는 선견력이 있으며 사회시스템의 변화를 예측하고 준비한다.
- 발명테마를 선택하는 안목이 뛰어나며, 복수의 프로젝트 를 동시에 진행시킨다.