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WORK

Cassette 3in1 – a sterile and safe blade removal system for medical staff (Australia)

Designed by PROdesign Australia.

Challenge: In the USA alone, 1 million sharps injuries, most caused by scalpels, are reported every year. By far, the most are sustained by medical staff, but also health care cleaning and laundry staff are at risk.

Solution: Cassette 3in1's one-piece moulding with live hinges and snap fittings provide health care workers and other staff members with sterile and safe blade removal. Scalpels can be inserted and blades made safe with a single-handed action.



Read more about "Cassette 3in1" [here](#):

Caterpillar Scoop – a stretcher enabling a single paramedic to move a patient up/down stairs (Sweden)

Designed by Morten Wagener.

Challenge: Carrying stretchers with very heavy patients down a flight of stairs is neither a pleasant experience for the patient nor the two paramedics needed. In addition to heavy lifting, paramedics need to make extra trips up and down the stairs to fetch equipment and the patient's belongings.

Solution: With the Caterpillar Scoop stretcher, patients can be moved by a single paramedic, enabling the second paramedic to carry equipment and the patient's belongings.



Read more about "Caterpillar Scoop" [here](#):

EmptiCon – a tool for loading and unloading containers (Denmark)

Designed by CPH Design Team.

Challenge: Most consumer products come from the Far East in shipping containers, where goods are stacked from floor to roof, but emptying unpalletised goods from shipping containers involves manual and strenuous work.

Solution: EmptiCon simultaneously prevents back-strain and improves workplace conditions. When unloading containers, the Empticon operator controls the movement of flexible and folding conveyer modules from a joy stick-equipped platform.



Read more about "EmptiCon" [here](#):

Freedom of Creation – a system for digital manufacturing (The Netherlands)

Designed by Janne Kyttänen.

Challenge: The traditional manufacturing process, including assembly, transportation and storage, is expensive, polluting and space consuming.

Solution: Freedom of Creation provides a way of digitally manufacturing designed goods with no limitations by combining a 3D CAD file with a laser sintering machine, rendering an electronic file into a solid object. That way, a design conceived in one end of the world can be manufactured in the other end of the world an instant later, eliminating the need for transportation and storage expenses.



Read more about "Freedom of Creation" [here](#):

GUBI II Collection – a line of air transmitting, sound absorbing and eco-friendly furniture (Denmark)

Designed by Komplot Design.

Challenge: New management tools based on efficiency may allow manufacturers to use fewer resources, produce less waste and minimize toxic emissions, but they tend not to change the fundamental design of products or industrial production.



Solution: The GUBI II Collection consists of chairs, tables and partitions, and is manufactured from 100% recyclable material, using no adhesive or top finish. The result: lightweight, air transmitting, sound absorbing and ergonomically shaped products, which are particularly suited to offices or the educational sector, as it improves the acoustics of a room significantly. At the end of their lifecycle, the products can be disassembled into recyclable material using just a knife, following cradle-to-cradle demands.

Read more about "GUBI II Collection" [here](#):

Halley VI Research Station – a housing and research facility with low environmental impact (United Kingdom)

Designed by Faber Maunsell and Hugh Broughton Architects.

Challenge: Because of Antarctica's extreme weather conditions, research stations are often large scale diesel consumers, requiring lengthy maintenance procedures.

Solution: The Halley Research VI Station is a housing and research facility with low environmental impact, Complete with bioreactors for sewage treatment and two-stage incinerators to provide waste combustion. The station's diesel generators are supplemented by solar-thermal and photovoltaic cell systems. In addition, the hydraulic rams carrying the Halley Research VI Station significantly reduce otherwise lengthy maintenance procedures.



Read more about "Halley Research VI Station" [here](#):

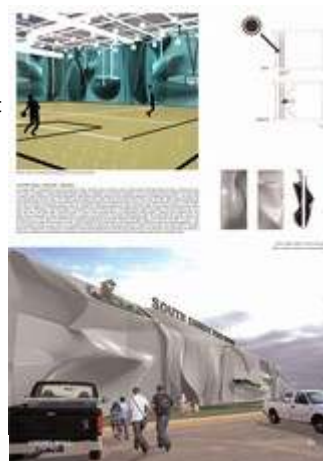
Hydro Wall - a building component that stores warmth and coolness until needed (USA)

Designed by Virginia San Fratello.

Challenge: Large fluctuations of daytime and night time temperatures in some parts of the world result in expensive heating and cooling costs.

Solution: HydroWall is a liquid material that absorbs and stores warmth and coolness, until it is needed. At the same time, HydroWall is a water storage device that stores rainwater, which for example can be used to fill fire trucks, irrigate the surrounding vegetation or supplement cooling systems that lose water by evaporation.

Read more about "Hydro Wall" [here](#):



JACK – Mobile fuel cell generator (Germany)

Designed by Gilbert Robel.

Challenge: The indoor use of fume exhausting gas or diesel generators is extremely dangerous, but often a necessity in areas without electricity.

Solution: The portable and easy-to-use JACK generates clean energy by converting methanol stored in interchangeable tanks, exhausting moist air instead of fumes.



Read more about "JACK" [here](#):

Joyn – removable screens and blotter for continuous adjustment of working areas (France)

Designed by Ronan & Erwan Bouroullec.

Challenge: Teamwork is increasingly common in workplaces, but it is not always easy to refurbish traditional workspaces.

Solution: Using micro-architecture, Joyn provides removable screens and blotters, making it easy to adapt working areas for private work, teamwork or conferences.

Read more about "Joyn" [here](#):



Kvadrat Soft Cells – sound-absorbing wall-& ceiling system (Denmark)

Designed by Kvadrat A/S & Art Andersen A/S.

Challenge: Modern open-plan office spaces are acoustic nightmares. Telephone calls, meetings and smalltalk create a noisy working environment, resulting in distraction and lower efficiency.



Solution: Kvadrat Soft Cells uses tensioned textiles mounted on an adjustable frame to control sound absorption, light transmission and color, combining the visual benefits of high-quality design fabrics and unique acoustic properties.

Read more about "Kvadrat Soft Cells" [here](#):

Many Helping Hands Approach – an initiative to rethink elder care (Singapore)

Designed by Nicholas Lee & Cecilia Chua.

Challenge: The increasing age of the population in the industrialized world calls for new approaches on how to rethink elder care.

Solution: In order to rethink elder care from a human rather than patient-centered perspective, Singaporean medical professionals invited non-experts and industrial designers to participate in workshops to generate new ideas to improve elder care, some of which have already been applied in Alexandra Hospital in Singapore.

Read more about "Many Helping Hands Approach" [here](#):



Mountit – a mechanical aid for the handling of plaster plates (Denmark)

Designed by CPH Design.

Challenge: As of January 2006, Danish law required a reduction of the heavy lifting associated with mounting dry wall.



Solution: Mountit is a mechanical aid which enables a single person to move plasterboard and align plaster plates.

Read more about "Mountit" [here](#):

Neptunic C Suit (Sharksuit)– shark bite protection for divers (USA)

Designed by Jeremiah S. Sullivan.

Challenge: Scientific, Commercial, Professional and Sport divers who study or work around sharks risk being attacked by these marine predators.

Solution: Neptunic C Suit, made from steel mesh, high tech fiber, titanium and hybrid laminates protects divers from shark bites. As sharks dislike the galvanic currents created by the suits chain mail qualities in sea water, the suit provides a passive safety shield around the diver from accidental, high speed, unseen or intentional attacks.



Read more about "Neptunic C. Suit" [here](#):

Ordrup School – a school design for differentiated teaching and creative thinking (Denmark)

Designed by Rosan Bosch & Rune Fjord Jensen.

Challenge: Every child learns differently, but in general this is not apparent in schools and classrooms.

Solution: Based on the concepts "quiet and absorption", "discussion and cooperation" and "confidence and presence", Ordrup School is divided into areas with distinct functions, creating new spaces for learning. Furniture includes Hot Pots (green platform with round red holes for debates), reading tubes (large upholstered tubes, where kids can relax with a book) and concentration booths.

Read more about "Ordrup School" [here](#):



RampSnake – a flexible transport system for loading and unloading of aircraft (Denmark)

Designed by CPH Design.

Challenge: Loading and unloading an aircraft is a demanding job, where handlers carry baggage



weighing up to 40 kg in the low confines of the planes cargo hold.

Solution: The RampSnake, made up of a series of modules with two motorised rollers driving a conveyor belt, is a flexible transportation system enabling the operator to load and unload freight with minimal physical strain. In addition to reducing the daily physical load by up to 80%, RampSnake makes it possible to load planes 20% faster.

Read more about "RampSnake" [here](#):

Ravelin 3 - Next Generation Protection Equipment for De-mining (Norway)

Designed by Leif Isachsen & Marianne Støren Berg (Kode Design A/S).

Challenge: In many circumstances, the only method that meets the United Nations' requirements for effective removal of landmines is manual detection, putting human deminers at great risk.

Solution: The equipment addresses both ergonomic and safety issues. It has particular merit in hot areas and protects the user from explosions better than existing protective gear. The facemask provides the deminer with improved optical quality and range of movement. The position of the visor reduces distortion, glare and irritation and breath is directly ventilated.



Read more about "Next Generation Protection Equipment for De-mining" [here](#):

SolarScan – a scanning device for detection of skin tumours (Australia)

Designed by 4design Pty Ltd.

Challenge: In Australia alone, 1 400 die from melanoma (a malignant skin tumour) each year and a huge amount of unnecessary surgery is performed on suspicious, but benign moles.

Solution: SolarScan assists doctors in early detection of melanoma by employing the latest camera and computer technology in a robust and portable device.



Read more about "SolarScan" [here](#):

Tongue Sucker – a device to secure an open airway for an unconscious person (United Kingdom)

Designed by Philip Greer, Lisa Stroux, Graeme Davies & Chris Huntley.

Challenge: Unconscious casualties will lose all muscle tone and as a result their tongue will block their airway. Without adequate airway, casualties may die or suffer brain damage within 4 minutes.

Solution: Using suction, the one size fits all Tongue Sucker allows untrained bystanders at an accident scene to render life saving first aid by securing an open airway, until paramedics arrive.



Read more about "Tongue Sucker" [here](#):

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