

It's child's play

This month's selection in brief

This month's patent alert showcases a series of new developments in children's toys, spanning interactive electronic features to sensory-enhanced plush concepts. These innovations reflect an increasing industry emphasis on safety, multifunctional design, and supporting child development.

As toy materials and technologies grow more advanced, ensuring full compliance with the **Toy Safety Directive 2009/48/EC** becomes more critical than ever. Centexbel assists manufacturers and designers by providing accredited testing services, including mechanical safety evaluations, flammability testing, and chemical compliance assessments.

More about testing capabilities of Centexbel related to toys:

<https://www.centexbel.be/en/problem-solving/testing>

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Children's toy

Patent number: US12239922

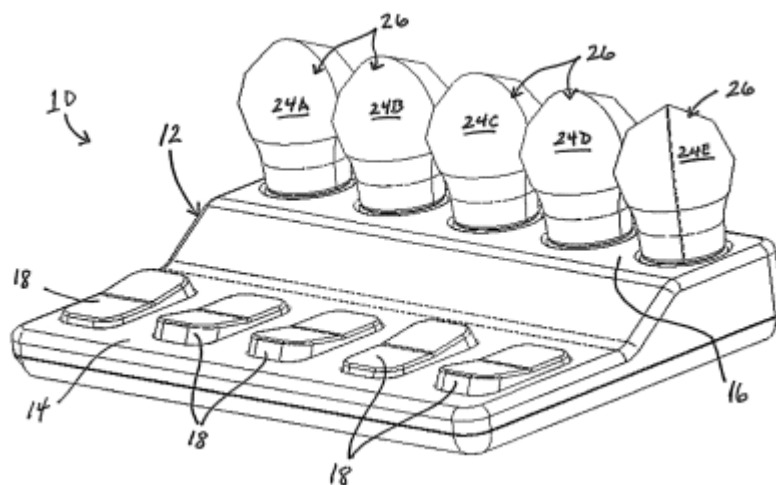
Publication date: 2025-03-04

Applicant(s): JOLIET CHASE

Inventor(s): JOLIET CHASE

Summary

This invention discloses a children's toy featuring a user input panel with switches on one surface and sockets on another, designed to receive multiple lightbulbs each equipped with unique magnetic elements. The toy operates by sensing the position of each switch and the presence of a magnetic coupling between a lightbulb and its corresponding socket. When a switch is in the active position and a magnetic coupling is established, the toy generates an output such as illuminating the lightbulb in a unique color, playing an audible sound (letters, words, or sentences), displaying atmospheric visuals, or moving an associated object. The magnetic coupling ensures correct matching between lightbulbs and sockets, preventing incorrect pairings and enhancing educational interaction. This design supports children's cognitive development by teaching cause-and-effect, color recognition, and early literacy through engaging, modular play. The toy can be integrated with board games or other play systems, offering unique experiences for multiple players. Overall, the invention provides a versatile, interactive educational toy that combines mechanical, visual, and auditory stimuli to foster learning and development in children.



Diving pole

Patent number: BE1031729 B1

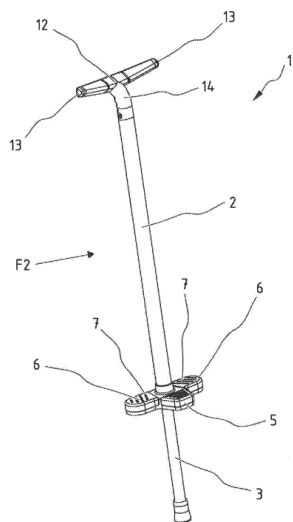
Publication date: 2025-01-27

Applicant(s): THE CHILLAFISH COMPANY

Inventor(s): DE ROECK SEBASTIAN

Summary

This invention discloses an inclination pole, comprising a cylinder (2) extending primarily vertically in use, a plunger (3) mounted slideways in or over the cylinder (2) and a springy element arranged between the plunger (3) and the cylinder (2), with a steering wheel (4) mounted at the top of the cylinder (2), characterized by the cylinder (2) having at the bottom at least a central footrest (5) supporting one or both feet of a user in such a way that the user can balance the spring pole (1) with one foot on the central footrest (5) and the central footrest extending at right angles to the plane mainly formed by the cylinder (2) and the steering wheel (4).



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Multi-textured sensory development plush toy with integrated teething and pacifier features

Patent number: US12343651

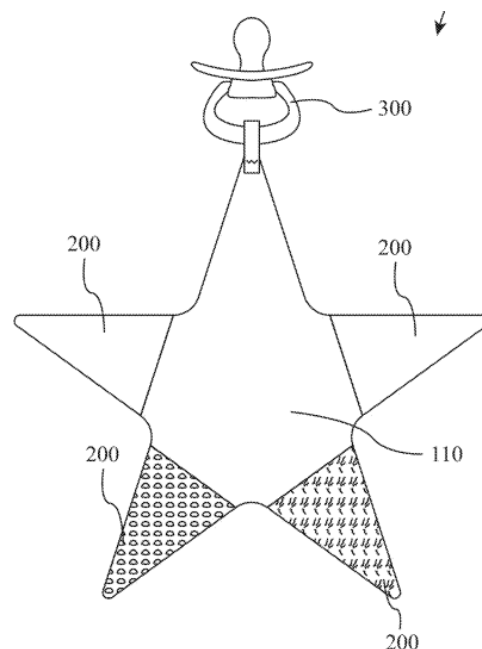
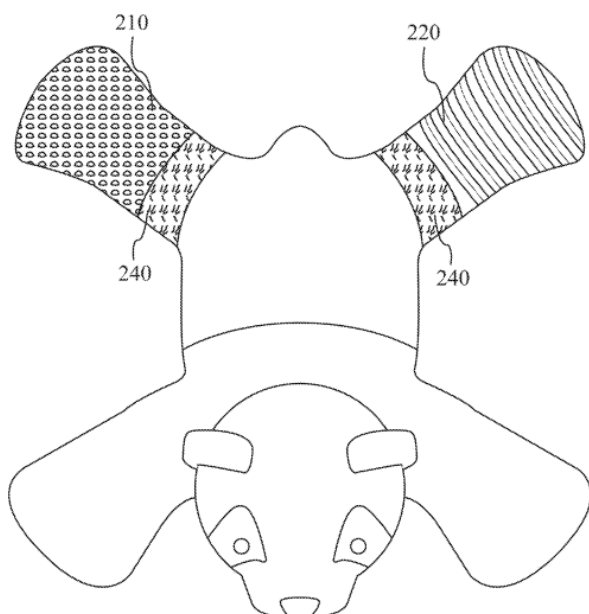
Publication date: 2025-07-01

Applicant(s): BURNESON DANE

Inventor(s): BURNESON DANE

Summary

This invention relates to an infant sensory development plush toy designed to provide comprehensive sensory stimulation and teething relief. The product features a hypoallergenic polyester plush body with multiple appendages exhibiting a progression of textures from smooth to fuzzy, arranged to stimulate specific neural pathways critical for infant sensory processing development. The appendages are strategically positioned to encourage developmental progression in tactile sensitivity and balanced motor skill development. The toy incorporates raised tactile elements and varying firmness levels in textures to aid teething muscle development. Constructed with a washable fabric core, the toy maintains its structural integrity and appendage positioning after repeated washing. This multifunctional design addresses the need for integrated infant care products that combine comfort, sensory engagement, and practical teething functionality, thereby simplifying caregiving and promoting infant developmental milestones. The invention advances prior art by providing a safe, hygienic, and sensory-rich experience that supports infants' cognitive and motor skill growth through targeted tactile stimulation.



Wireless interactive toy construction element with coils

Patent number: EP4591961

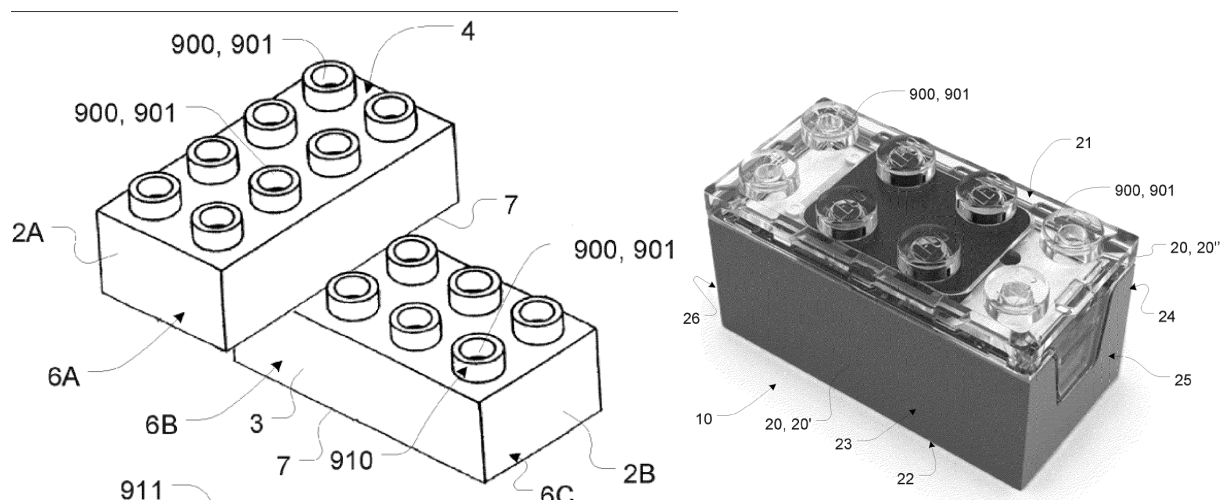
Publication date: 2025-07-30

Applicant(s): LEGO AS

Inventor(s): DAVIES LOUIS NIGEL; KNIGHTS CHRISTOPHER ROBERT; COX SIMON PETER; VAN WYK EUGENE JOHANNES; ALMOND JAMES ROBERT

Summary

The invention discloses a wireless interactive toy construction element designed for modular toy construction systems, featuring a box-shaped housing with six walls arranged in three orthogonal pairs, one pair having a smaller surface area. A set of electromagnetic coils is wound on a frame element configured to fit inside the housing. The coils are arranged orthogonally such that a first coil is parallel to the smallest area walls and wound distally with respect to its coil axis, intersecting without touching a second coil parallel to a larger surface area wall. A third coil may be arranged parallel to walls with intermediate surface area, orthogonal to the first two coils, also wound distally and intersecting without touching the other coils. Each coil comprises two coil segments arranged in parallel planes axially spaced apart and connected in series. This coil arrangement optimizes electromagnetic signal reception from all directions, enabling accurate and reliable position and orientation detection relative to other toy elements without requiring external devices. The invention further includes a manufacturing method involving sequential winding of coils on the frame element in order of largest to smallest surface area walls, insertion into the housing, and electrical connection to a PCB. The design achieves a compact form factor, robustness, ease of manufacturing, and enhanced interactive play experience for users, particularly children.



Plush Doll with Equipment Compartment and Keychain Attachment

Patent number: US20260001004

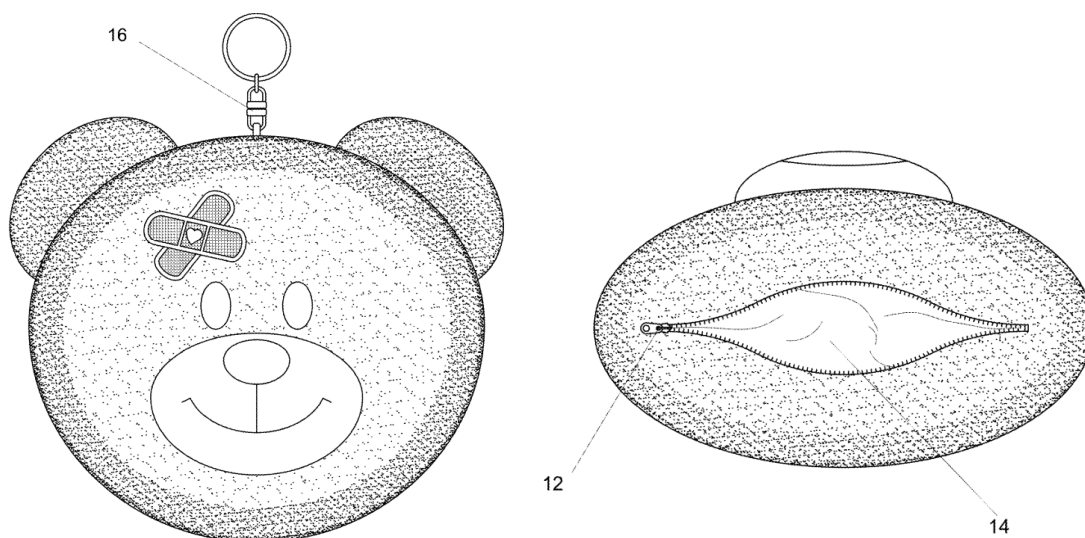
Publication date: 2026-01-01

Applicant(s): LINIADO MARC

Inventor(s): LINIADO MARC

Summary

This invention provides a plush toy constructed from soft, hypoallergenic materials that integrates a secure compartment for storing essential medical equipment such as bandages, antiseptic wipes, small scissors, and adhesive tape. The compartment features a closure mechanism, such as a zipper or Velcro, allowing easy and reliable access while preserving the toy's comforting nature and aesthetic appeal. A keychain attachment, made from durable materials including lightweight metals or plastic and equipped with a spring-loaded clasp, is securely affixed to the plush toy to enhance portability by enabling attachment to personal items like backpacks or belt loops. The cavity may be lined with waterproof material to protect medical supplies from moisture. This dual-purpose design addresses the limitations of traditional plush toys and bulky medical kits by combining emotional comfort with practical utility, ensuring that essential first-aid supplies are readily accessible and portable. The invention is particularly beneficial for children, caregivers, and individuals requiring quick access to medical supplies, providing a comforting companion that also serves as a reliable emergency resource.



Gaming accessory

Patent number: FR3158649

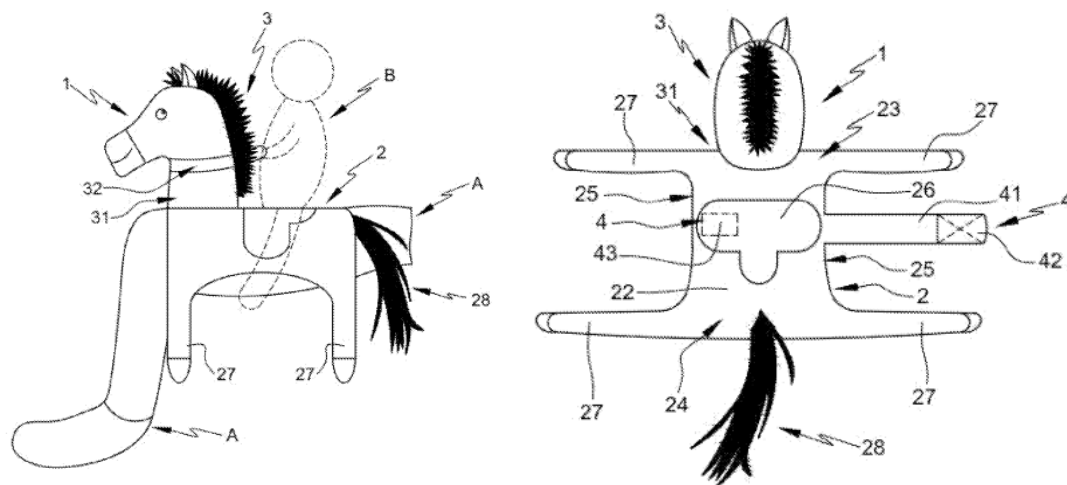
Publication date: 2025-08-01

Applicant(s): PILOU COMPANY LIMITED

Inventor(s): MASSONI MARCELLO

Summary

This invention presents a gaming accessory designed to simulate a child riding an animal by mounting a support member on the thigh of a seated adult. The support member, made of flexible material, includes a bottom face, top face with a saddle-shaped thickened element, front part near the knee, rear part, and lateral extensions simulating animal legs. It is fixed securely to the adult's thigh using a strap with self-gripping strips. A protruding structure shaped like an animal head, particularly a horse's head, extends upwards from the front part, providing the child with a secure and comfortable element to hold or attach to via a flange. This design enhances the realism of the play experience while improving safety and comfort for the child by preventing falls and providing a stable seating surface. The accessory is intended for use in children's games and toys, offering a novel and practical solution to simulate riding an animal with increased security and enjoyment.



Soft tactile article for therapeutic use

Patent number: US20250032943

Publication date: 2025-01-30

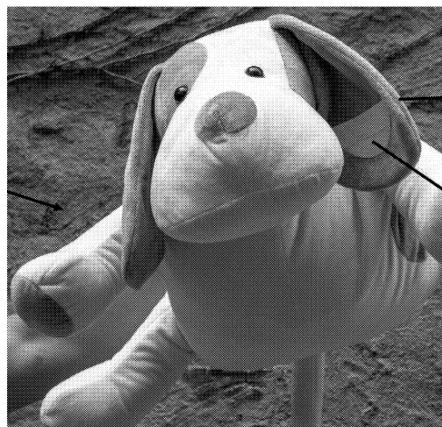
Applicant(s): TURBO RELIEF LLC

Inventor(s): MIELE RYAN; KESKAR MIHIR

Summary

There is a large, underserved need for an improved focus on mental health for the youth, including young adolescent children both without and with intellectual disabilities. In addition to the mental health needs of the youth community, largely being unmet, very few seek help because of the ever-persistent stigma around receiving help for a mental issue.

The present invention discloses a therapeutic device for everyone, including young children, pre-adolescents, adolescents and elderly adults suffering from intellectual disabilities such as anxiety, dementia or Alzheimer's, that physically alleviates the negative mental effects brought about by daily interactions with the world around them. A therapeutic device according to an exemplary embodiment of the present invention comprises: a main body configured to provide weighted pressure to a user of the device; one or more components extending from the main body; one or more sub-components extending from the one or more components, at least one of the main body, the one or more components and the one or more sub-components being stuffed with a filling; a cooling feature disposed at or within the one or more components or the one or more sub-components; a tactile feature disposed at or within the one or more components or the one or more sub-components; and an aromatherapy feature disposed at or within one or more of the components or the one or more sub-components.



Child support assembly with removeable toy bar

Patent number: WO2025054287

Publication date: 2025-03-13

Applicant(s): WONDERLAND SWITZERLAND AG

Inventor(s): HARTENSTINE CURTIS M.; BOWERS PATRICK J G.; KHAIRA AANYA.; STOKHOF DE JONG THOMAS; SCHUITEMAKER REMY; HANS VAN GELDEREN MARTIJN; MOUNTZ JONATHAN K.; PACELLA JONATHAN M.

Summary

The disclosed invention is a child support assembly comprising a frame assembly with multiple legs and a connected soft goods assembly, including a removable bassinet with a mattress that fits inside and is removable. A key feature is a toy bar that can be selectively attached to the frame's top rail, the soft goods assembly, or the mattress, including when the mattress is removed from the bassinet. The toy bar includes pivotable clips for secure attachment and can be used in multiple configurations such as bassinet mode, playard mode, or as a standalone play gym. Various embodiments of the toy bar feature multiple legs connected to a coupler or hub, with legs having curved and straight portions, constructed from differing materials, and capable of rotation and detachment. Locking mechanisms involving springs, washers, and detents secure the legs in expanded or folded configurations, facilitating easy storage and transport. Magnetic and friction-fit connections enable secure and convenient attachment to the child support assembly or mattress. Adjustable sliders and loops on the legs allow toys to be hung at customizable positions. This invention enhances the versatility and usability of child support assemblies by providing a convertible toy bar that supports play and entertainment across various modes and surfaces, extending functionality beyond traditional floor-based play gyms and accommodating a wider age range of children.

