Patent Abstract and Description Sample

Title: Innovative Modular Storage System
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Abstract

A modular storage system comprising interlocking storage units designed to be quickly assembled and customized without the need for tools. The system allows users to configure storage layouts according to their needs, utilizing standardized connectors and stackable modules to optimize space and accessibility. The invention provides an efficient, scalable solution for personal, commercial, and industrial storage applications.

Field of the Invention

The present invention pertains to the field of storage systems and, more particularly, to modular storage systems that can be easily reconfigured and expanded.

Background

Existing storage solutions commonly require permanent assembly or lack flexibility for reconfiguration. Traditional shelving or cabinetry is not easily adaptable to changing user requirements. There is a need for a storage system that can be quickly and conveniently adapted, assembled, or disassembled.

Summary of the Invention

The invention relates to a modular storage system comprising at least two storage units, each equipped with standardized connectors on each side, allowing users to securely attach and detach units in multiple configurations. The system's stackable and interlocking design ensures stability and adaptability for various uses.

Brief Description of the Drawings

- **Figure 1:** Perspective view of the modular storage system assembled in a typical configuration.
- **Figure 2:** Exploded view showing the connectors and interlocking mechanism.
- **Figure 3:** Alternative configuration with varied unit sizes.

Detailed Description

Referring to Figure 1, the modular storage system (100) comprises multiple storage units (101) arranged in a stacked and locked configuration. Each unit (101) includes standardized connectors (102) located on all four sides, which facilitate attachment to adjacent units.

As shown in Figure 2, each connector (102) is designed for tool-free engagement by manually

aligning and pressing adjacent units together. The connectors (102) include guiding grooves and locking tabs that provide a secure fit while allowing for easy disassembly.

Units are available in a variety of standard sizes and can be mixed and matched (see Figure 3), allowing users to customize the storage system for closets, garages, warehouses, and more. Optional wheels or wall-mount brackets (not shown) may be attached via integrated attachment points.

The material of construction may include durable polymers, metals, or composites, selected for strength and lightweight properties. The system may be further accessorized with shelves, drawers, or divider inserts for specialized storage requirements.

While several embodiments have been described, various modifications may be made without departing from the spirit of the invention. All such modifications are intended to be included within the scope of the following claims.