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Device for Coastal Restoration

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Description

This invention introduces a novel system for creating portable, porous structures aimed at coastline restoration. It utilizes bags filled with lightweight, porous manufactured aggregates that provide an area for sustainable vegetative growth and create a barrier that can absorb oil and contaminants. These aggregates are typically produced by the thermal fusion of silicate clays. The system is versatile, with configurations including individual bags, mats formed by encasing multiple bags in flexible grid material, and logs created by rolling groups of pocketed bags. This approach offers an innovative solution to coastline erosion and environmental degradation.

Advantages:

- Portability and ease of installation
- Versatility in application
- Layered coastal protection capability
- Enhanced durability

Commercial Uses:

- Coastline restoration and protection projects
- Environmental conservation
- Infrastructure protection in coastal areas
- Recreational and commercial shoreline development



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