

ABSTRACT

The present invention discloses a container terminal, comprising a shore working area, loading-unloading passages, a yard area and collection-evacuation passages. The shore working area is arranged on the shore, and a ship (100) is docked at the shore. The yard area comprises a plurality of yard units (108). Spacing areas (106) are formed between adjacent yard units (108). Each yard unit (108) comprises at least one yard. Each yard unit (108) is arranged with a collection-evacuation passage surrounding the yard. Loading-unloading passages (115) are arranged in the spacing areas (106) between adjacent yard units. The loading-unloading passages connect the yard area and the shore working area. The collection-evacuation passages are arranged in the yard units (108). The loading-unloading passages and the collection-evacuation passages are in a same horizontal plane but do not intersect with each other. The present invention further discloses a loading-unloading method and a collecting-evacuating method executed on the described container terminal.