

ASSEMBLEABLE CHEMICAL FILTER STRUCTURE AND METHOD FOR MANUFACTURING ABSORPTION DEVICE THEREOF

ABSTRACT

An assembleable chemical filter structure includes a plurality of unit cells releasably coupled to each other. Each unit cell includes a unit frame and at least one absorption device. The unit frame forms at least one opening. The absorption device is releasably mounted to the unit frame and includes a support structure, at least two filtering members and an absorbent. The support structure has two opposite outer sides to each which a filtering member is mounted. The absorbent is charged in a receiving space formed between the two filtering members and the support structure. The absorption device is manufactured through a process including steps of applying adhesive, attaching filtering member, heating and bonding, and charging absorbent. As such, when the absorption device gets saturated, the unit cell is releasably removed for replacing the absorption device so as to facilitate replacement and repeated use.

Figure 1