

"Process and device for the preparation of a cryogenic fluid in the high purity liquid state"

ABSTRACT

The invention relates to a process for the preparation of a cryogenic fluid in the high purity liquid state, such as liquid argon, liquid helium or liquid nitrogen of high purity, substantially free from at least one of the impurities which it contains, in which the cryogenic fluid in the liquid state to be purified is placed in contact with an adsorbent permitting the adsorption of at least one of the said impurities, and the said cryogenic fluid is recovered in the high purity liquid state, characterized in that cooling of at least a proportion of the adsorbent is maintained by means of purified cryogenic fluid in the liquid state during at least a part of the duration of the stoppage stage separating a purification cycle N and a purification cycle N+1, which are successive.

The invention also relates to a device for making use of the said process.

Figure 1