

ABSTRACT

Title: "Chemical reactor, refrigerating machine and
container provided therewith and reagent
5 cartridge therefor"

Applicant: SOFRIGAM

10 A reagent (26) combines exothermically with a cold
refrigerating fluid exiting a refrigerating evaporator
during a refrigeration cycle, then releases the
refrigerating fluid endothermically once it has been
heated to a sufficiently high temperature by means of a
15 heating element (17) during a regeneration cycle during
which the released refrigerating fluid condenses in a
pressurized tank. The reagent is confined inside
stainless steel walls (29, 31, 34) which prevent it
from swelling. These walls include perforated tubes
20 (34) lining channels (32) in which the mass exchanges
take place during the combining and separating
reactions. The heating element (17) is fitted in a
central cavity (46). An air flow (54), which is
interrupted during regeneration, evacuates the heat of
25 the combining reaction by means of fins (56). The
invention prevents the block of reagent from distorting
and becoming progressively inoperative over repeated
cycles.

30 See Figure 3.

This Sheet Has Been Replaced

