

Title (en)
SODIUM-WATER STEAM GENERATORS WITH A CENTRAL BODY

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Application
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Priority
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Abstract (en)
[origin: US4624217A] According to the invention, the central body (10) of the steam generator filled with liquid sodium in its upper and middle part comprises in its lower part, on one hand, a crowned end wall (23) under which an inert gas is injected for forming a pocket (24) which contains a small volume of gas and defines a gas-liquid separation surface (25) for the reflection and the attenuation of a pressure wave in the event of a sodium-water reaction, and, on the other hand, a spider element (11) which connects the lower end of the central body (10) to an end element (16) provided with a frustoconical portion (17) which extends with an annular clearance into the outlet pipe (5) for the liquid sodium which has travelled through the tube bundle (7). Application in particular to nuclear power stations.

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