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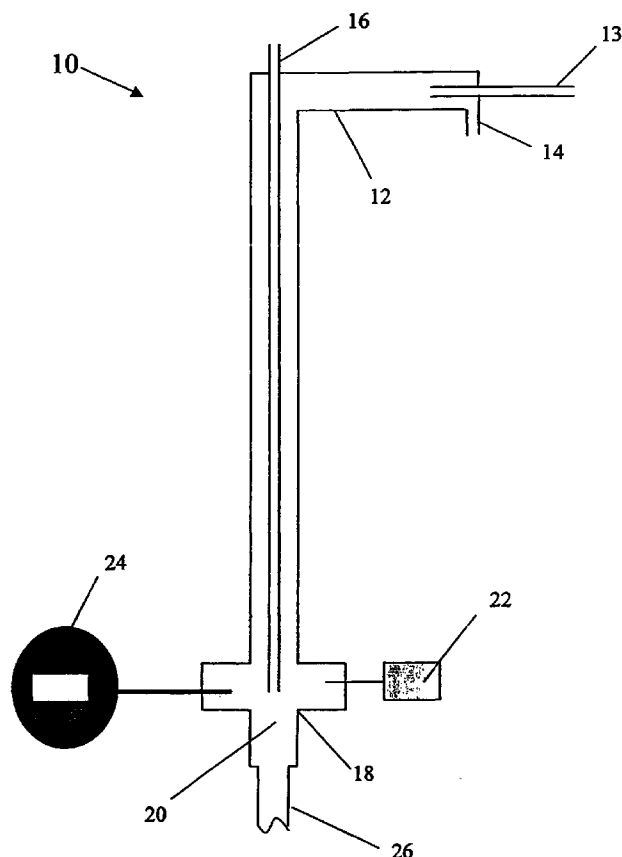
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(54) Title: PRODUCTION OF GASEOUS CHLORAMINE



(57) Abstract: A process and reactor for the gas-phase reaction of commercially available gases in the presence of an inert carrier gas to form product gas. The reactor (10) has an outer shell tube (12) and an inner tube (16), both of which feed reaction chamber (18). At least one first commercially available gas is fed to outer tube (12) via first inlet (13). One or more inert gases is fed to outer tube (12) via second inlet (14). In the case of chloramines gas formation, chlorine gas reacts with ammonia. Gas at reaction zone (20) in reaction chamber (18), which is heated by one or more heating elements (22). The product gas stream exits reaction chamber (18) via discharge tube (26).



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