

METHODS AND APPARATUS FOR MIXING CHEMICAL COMPONENTS FOR THE MANUFACTURE OF POLYURETHANE

ABSTRACT

Embodiments of the invention describe methods and apparatus for mixing chemical components in the manufacture of polyurethane foam. The chemical components include a polyol and different blowing agents. The blowing agents are injected directly into a mixing chamber at different height levels according to their boiling points. The mixing chamber allows continuous discharge of the mixture into a static mixer for further mixing before being stored into a storage tank. The blowing agents are chemical compounds selected from the group consisting of hydrocarbon-containing compounds, hydrofluorocarbon-containing compounds or hydrofluoroolefin-containing compounds.

Figure 1