

Title (en)

APPARATUS FOR MAKING A GLASS PREFORM BY FLAME HYDROLYSIS

Title (de)

VORRICHTUNG ZUM HERSTELLEN EINER GLASVORFORM DURCH FLAMMENHYDROLYSE

Title (fr)

APPAREIL DE FABRICATION DE PREFORME DE VERRE PAR HYDROLYSE A LA FLAMME

Publication

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Application

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Priority

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Abstract (en)

[origin: WO0117918A1] An apparatus is described, for making a glass preform by flame hydrolysis. The apparatus includes a main deposition burner configured to direct two or more streams of soot-forming reactants and a stream of flame gases into a deposition chamber, in a direction toward a rotating support mandrel, so as to form by flame hydrolysis a glass preform on the mandrel. One or more pairs of auxiliary burners may also be included, for introducing further streams of flame gases, but no streams of soot-forming reactants, toward the glass preform, from opposite lateral sides of the main deposition burner; to provide additional heat when the preform has reached a predetermined size, thereby improving efficiency. The main deposition burner is configured to direct the two or more of the streams of soot-forming reactants to impinge quasi-tangentially toward the mandrel and, further, to direct the stream of flame gases obliquely inwardly toward the two or more streams of soot-forming reactants, to narrow the flame's width along one or both of two orthogonal axes.

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