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Abstract:

Glass composition suitable for use in electric lamps, stem manufactured from this glass composition and fluorescent lamp having a lamp envelope of this glass composition.

A novel type of lead-free glass for use in glass components of electric lamps, such as stems (1) for incandescent lamps and fluorescent lamps and lamp envelopes for compact fluorescent lamps. The glass does not contain PbO , F and B_2O_3 . The glass has favourable physical properties as regards meltability, softening, expansion, electric resistance, transparency, strength and chemical resistance.

Fig. 1.