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(54) Title: GLASS COMPOSITIONS WITH IMPROVED CHEMICAL AND MECHANICAL DURABILITY

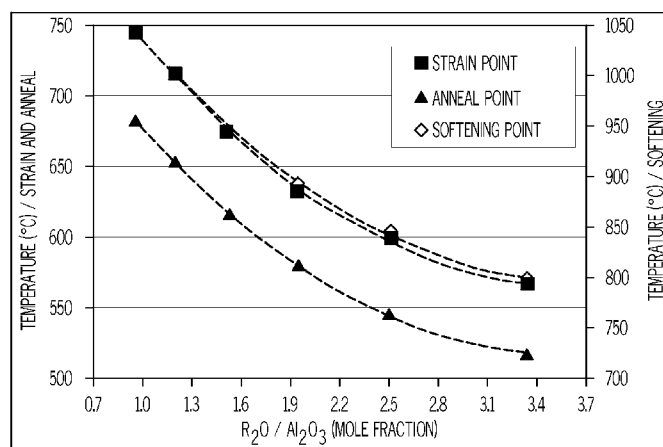


FIG. 1

(57) Abstract: The embodiments described herein relate to chemically and mechanically durable glass compositions and glass articles formed from the same. In another embodiment, a glass composition may include from about 70 mol.% to about 80 mol.% SiO_2 ; from about 3 mol.% to about 13 mol.% alkaline earth oxide; X mol.% Al_2O_3 ; and Y mol.% alkali oxide. The alkali oxide may include Na_2O in an amount greater than about 8 mol.%. A ratio of Y:X may be greater than 1 and the glass composition may be free of boron and compounds of boron. In some embodiments, the glass composition may also be free of phosphorous and compounds of phosphorous. Glass articles formed from the glass composition may have at least a class S3 acid resistance according to DIN 12116, at least a class A2 base resistance according to ISO 695, and a type HGA1 hydrolytic resistance according to ISO 720.