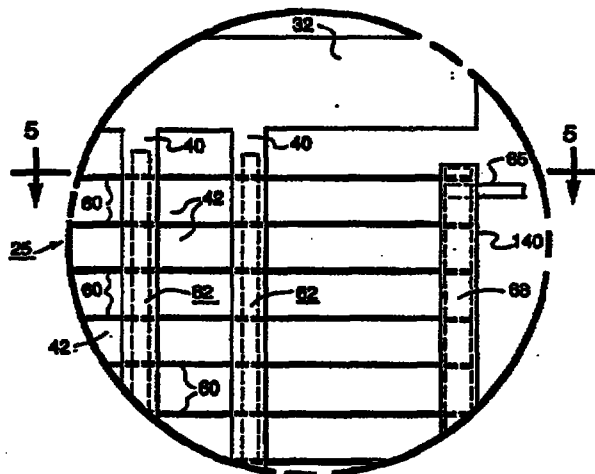


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(21) International Application Number: PCT/US96/11595 (22) International Filing Date: 12 July 1996 (12.07.96) (30) Priority Data: 509,315 26 July 1995 (26.07.95) US (71) Applicant: RCA THOMSON LICENSING CORPORATION [US/US]; Two Independence Way, Princeton, NJ 08540 (US). (72) Inventor: CHERUKURI, Satyam, Choudary; 90 Cranbury Neck Road, Cranbury, NJ 08512 (US). (74) Agents: TRIPOLI, Joseph, S. et al.; GE & RCA Licensing Management Operation, Inc., CN 5312, Princeton, NJ 08540 (US).	(81) Designated States: AL, AM, AT, AU, AZ, BB, BG, BR, BY, CA, CH, CN, CZ, DE, DK, EE, ES, FI, GB, GE, HU, IL, IS, JP, KE, KG, KP, KR, KZ, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, TJ, TM, TR, TT, UA, UG, UZ, VN, ARIPO patent (KE, LS, MW, SD, SZ, UG), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG). Published <i>With international search report.</i>	

(54) Title: COLOR CATHODE-RAY TUBE HAVING UNIAXIAL TENSION FOCUS MASK**(57) Abstract**

The present invention relates to a color cathode-ray tube (10) having an evacuated envelope (11) with an electron gun (26) therein for generating at least one electron beam (28). The envelope (11) further includes a faceplate panel (12) having a luminescent screen (22) with phosphor lines on an interior surface thereof. A uniaxial tension focus mask (25), having a plurality of spaced-apart first metal strands (40), is located adjacent to an effective picture area of the screen. The spacing between the first metal strands defines a plurality of slots (42) substantially parallel to the phosphor lines of the screen. Each of the first metal strands across the effective picture area of the screen has a substantially continuous first insulator layer (64) on a screen-facing side thereof. A second insulator layer (66) overlies the first insulator layer. A plurality of second metal strands (60) are oriented substantially perpendicular to the first metal strands and are bonded thereto by the second insulator layer. The first insulating layer has a coefficient of thermal expansion substantially matching, or slightly lower than, that of the first strands. The second insulating layer has a coefficient of thermal expansion that is substantially identical to that of the first insulating layer.