

Title (en)

ELECTRICAL-RESISTANCE COMPOSITION AND METHOD OF MAKING ELECTRICAL-RESISTANCE ELEMENTS

Publication

**EP 0163004 B1 19880107 (DE)**

Application

**EP 85101524 A 19850213**

Priority

US 61520484 A 19840530

Abstract (en)

[origin: US4536328A] A composition for making electrical resistance elements including a conductive component which comprises (a) a precious metal oxide of the formula  $A'^1-xA''x B'^1-yB''yO_3$ , wherein when A' is Sr; A'' is one or more of Ba, La, Y, Ca and Na, and when A' is Ba, A'' is one or more of Sr, La, Y, Ca and Na; B' is Ru; B'' is one or more of Ti, Cd, Zr, V and Co,  $0 < x < 0.2$ ;  $0 < y < 0.2$ ; (b) a binder component which comprises (i) between 40 weight percent and 75 weight percent C', wherein C' is SrO when A' is Sr, C' is BaO when A' is Ba, and C' is SrO+BaO when A' is Sr and A'' is Ba and when A' is Ba and A'' is Sr, (ii) between 20 weight percent and 35 weight percent B<sub>2</sub>O<sub>3</sub>, (iii) between 2 weight percent and 12 weight percent SiO<sub>2</sub>, and (iv) between 0.5 weight percent and 6.5 weight percent ZnO. The method of the present invention includes mixing the conductive component and binder as described above with an organic vehicle.

IPC 1-7

**H01C 7/00**; **H01C 17/06**; **H01B 1/16**

IPC 8 full level

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