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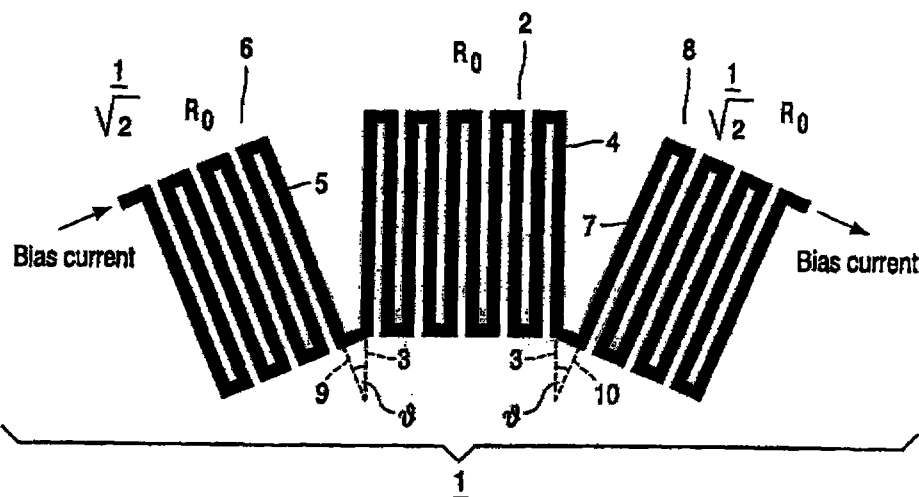
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(54) Title: **MAGNETORESISTIVE ANGLE SENSOR HAVING SEVERAL SENSING ELEMENTS**



(57) Abstract: A magnetoresistive angular sensor (1) is provided which determines a magnetic field direction. A high angular accuracy over a wide range of magnetic field strengths is obtained. The magnetoresistive angular sensor comprises a main sensing element (2) which is electrically connected to a first correction sensing element (6) with a first reference magnetization axis (9) and a second correction sensing element (8) with a second reference magnetization axis (10), the first (9) and the second (10) reference magnetization axes making correction angles θ between 5° and 85° of opposite sign with the main reference axis (3).