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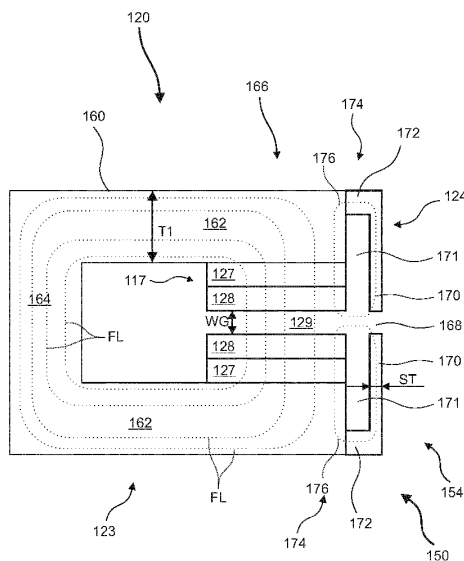
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(54) Title: MAGNETIC SECTOR WITH A SHUNT FOR A MASS SPECTROMETER

FIG. 2



(57) Abstract: The invention provides a magnetic sector (120) comprising: magnetic means (117), a yoke (160) including a first magnetic portion (166), and a deflection gap (129) in the first magnetic portion. The magnetic sector (120) is configured such that the magnetic means (117) are adapted for generating a magnetic field through the deflection gap (129) in order to deflect charged particles moving in said deflection gap (129). The yoke (160) further comprises a second magnetic portion having a magnetic shunt (154) including a shunt passage (168) for the charged particles, said magnetic shunt (154) directs a magnetic flux leaked from the deflection gap (129) into the first magnetic portion (166). The invention offers a charged particle deviation process and a use of a yoke portion for forming a shunt.

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