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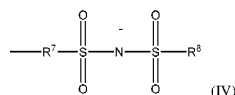
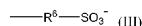
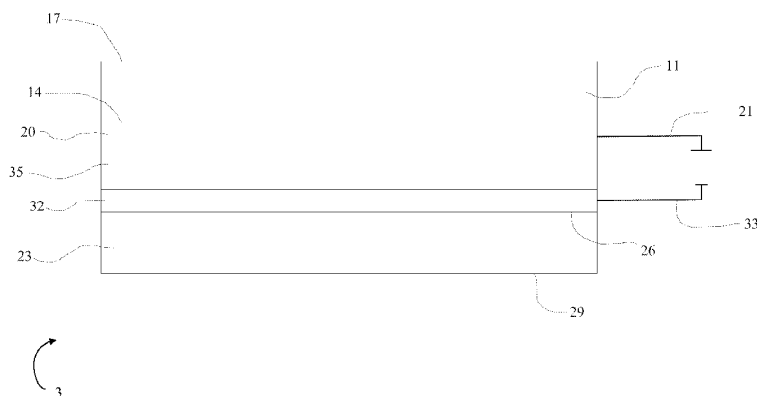
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(54) Title: ELECTROCHROMIC DEVICES AND COMPOSITIONS INCLUDING CATHODIC ZWITTERIONS

FIG. 1



(57) Abstract: The present invention relates to electrochromic devices and compositions, which include a cathodic component that includes cathodic zwitterions, where an anion is covalently bonded by a divalent linking group to a pyridinium nitrogen of the cathodic component. Each covalently bonded anion is independently represented by the following Formula (III) or Formula (IV): With reference to Formula (III) and Formula (IV), R⁶ and R⁷ are in each case independently selected from divalent linear or branched alkane linking group, and for Formula (IV), R⁸ is selected from fluorine, linear or branched fluorinated alkyl, or linear or branched perfluorinated alkyl.

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