CLAIMS

1 - A reflecting cell (1) comprising at least two substrates (2a,2b) each covered by an electrode (3a,3b) and facing each other, the substrates delimiting between them a volume (4) which separates them and which is filled with a cholesteric liquid crystal-type material, both electrodes being intended to be connected to a voltage source (5), the cell being characterized in that it comprises at least one half-wave plate (6) arranged between both substrates (2a,2b) and dividing the volume (4) into two compartments (4a,4b), each enclosing a part (8a,8b) of a same cholesteric liquid crystal, the half-wave plate (6) being arranged to reflect 100% of light incident on the reflecting cell during a planar state of the reflecting cell.

2 - The reflecting cell according to claim 1, characterized in that the half-wave plate (6) is constituted by a film made of a polymeric material.

3 - The reflecting cell according to claim 2, characterized in that the half-wave plate (6) is made of polyethylene (PE) or poly(ethylene terephthalate) (PET).

4 - The reflecting cell according to one of claims 1 to 3, characterized in that the half-wave plate (6) is covered on each of its faces by a deposit (7a,7b) of an optically transparent and conducting material, the deposits being intended to be connected to the voltage source (5), such that an electrical field can be set between each substrate (2a,2b) and the half-wave plate (6).

5 - The reflecting cell according to claim 4, characterized in that the deposit (7a,7b) of conducting material is constituted by a deposit of ITO or PEDOT-PSS.