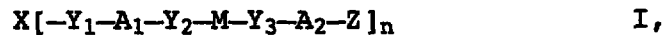


Polymerizable oligomesogens

5 Abstract

The compounds of the formula I



10

where

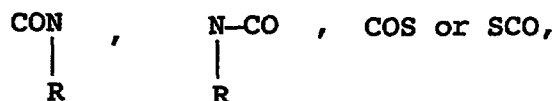
X is a silicon-free, n-valent central unit, the radicals

15 A₁ and A₂,

independently of one another, are a direct bond or a spacer, the radicals

Y₁, Y₂ and Y₃,

20 independently of one another, are a direct bond, O, S, CO, OCO, COO, OCOO,



25

M is a mesogenic group,

Z is a polymerizable group, and

30

n is a number from 2 to 6, where

R is hydrogen, or C₁- to C₄-alkyl, and the combination of M-Y₃ A₂-Z can be a cholesteryl radical,

35

are suitable as alignment layers for liquid-crystalline materials, as photocrosslinkable adhesives, as monomers for the production of liquid-crystalline networks, as base material for the preparation of polymerizable liquid-crystal systems which can
40 be doped by chiral compounds, as polymerizable matrix monomers for polymer-dispersed displays or as base material for polymerizable, liquid-crystalline materials for optical components, such as polarizers, retardation plates or lenses.

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