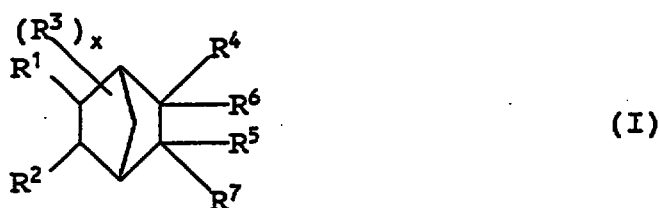


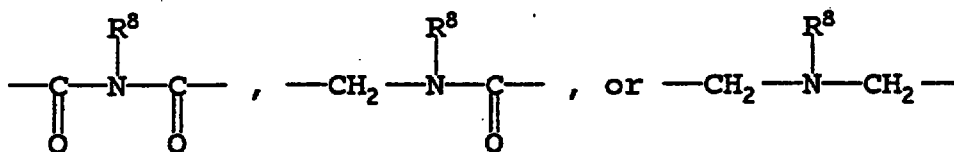
A B S T R A C T

CYCLOPENTADIENE DERIVATIVES

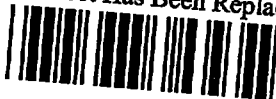
The invention provides compounds of the general formula



in which  $R^1$  and  $R^2$  each represent a hydrogen atom, or together represent a carbon-carbon single bond; each of  $R^4$  and  $R^5$  independently represents a hydrogen atom, or a  $C_1$ - $C_{20}$  alkyl or phenyl group, each of which may be optionally substituted;  $R^6$  represents a hydrogen atom, or a  $C_1$ - $C_{20}$  alkyl or phenyl group, each of which may be optionally substituted and  $R^7$  represents a group  $-CH_2-NHR^8$  in which  $R^8$  represents an optionally substituted alkyl group, or a group  $-COX$  wherein  $X$  represents an optionally substituted alkoxy group or  $-NHR^8$  where  $R^8$  is as defined above; or  $R^6$  and  $R^7$  together represent a group

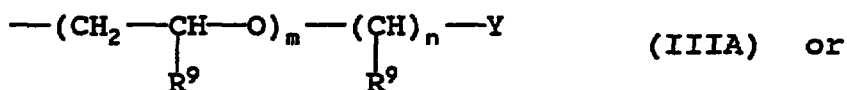
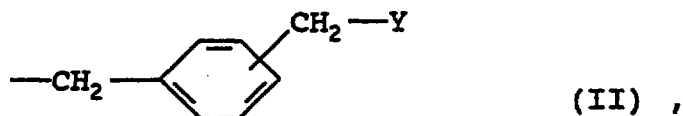


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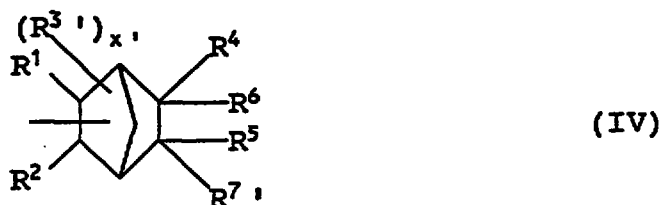


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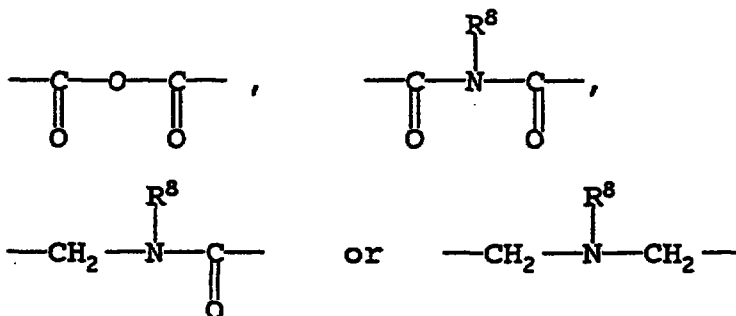
where R<sup>8</sup> is as defined above; x is 1 to 6; and each R<sup>3</sup> independently represents an optionally substituted alkyl or alkenyl group or a group of formula



5 wherein m is in the range 0 to 25, n is in the range 1 to 20, each R<sup>n</sup> independently represents a hydrogen atom or a methyl or ethyl group, D is derived from a saturated or unsaturated hydrocarbon containing from 20 to 500 carbon atoms, and Y represents a group of formula



in which  $R^1$ ,  $R^2$ ,  $R^4$ ,  $R^5$  and  $R^6$  are as defined above;  $x'$  is 0 to 5;  $R^{3'}$  is as defined for  $R^3$  other than a group of formula II, IIIA or IIIB,  $R^{7'}$  represents a group  $R^7$  as defined above or a group  $-CHO$  or  $-COOH$ , or  $R^6$  and  $R^{7'}$  together represent a group



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where  $R^8$  is as defined above, each group  $R^3$  containing a total of up to 550 carbon atoms, with the provisos that up to a maximum of 3  $R^3$  groups can each simultaneously contain a total of greater than 40 carbon atoms and that the groups  $R^3$  taken together contain a total of greater than 20 carbon atoms; a process for their preparation; novel intermediates; lubricating oil compositions, fuel compositions and additive concentrates containing the formula I compounds; and the use of the formula I compounds as dispersant additives.

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