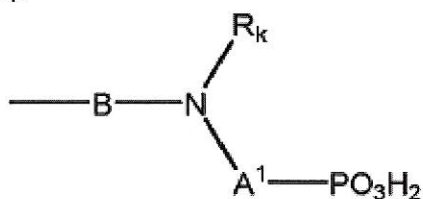


4a

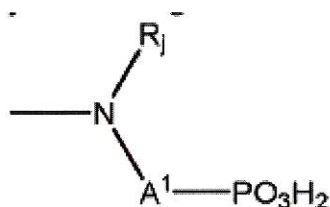
one or more heteroatoms,

- A^1 is an alkylene group comprising 1 to 5 carbon atoms,
- the R_j groups are independently from each other selected from the group consisting of:
 - the A^1 - PO_3H_2 group, wherein A^1 has the above-defined meaning,
 - the alkyl group comprising 1 to 18 carbon atoms and able to carry -
(AO)_a-R groups
- and
- the group



wherein B designates an alkylene group having 2 to 18 carbon atoms,

- r is the number of structure units -(AO)_a-R carried by all the R_j groups,
- q is the number of structure units -(AO)_a-R carried by Q,
- the sum "r+q" is selected so that in said polymer (B) the sum of the molar masses of all said structure units (ii) -(AO)_a-R is at least 50 % of molar mass of said polymer (B) preferably 90 % or more, based on the molar mass of said polymer
- y is an integer in the range of from 1 to 3, wherein when $y > 1$, the groups

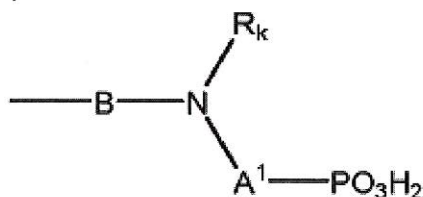


are the same or different

- Q^1 , N, and the R_j groups can form together one or more rings, this ring or these rings moreover able to contain one or more other heteroatoms.

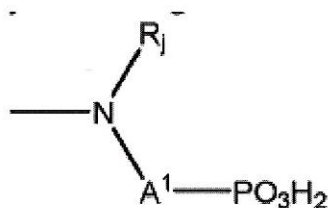
39a

- one or more heteroatoms,
- A^1 is an alkylene group comprising 1 to 5 carbon atoms,
- the R_j groups are independently from each other selected from the group consisting of:
 - the A^1 - PO_3H_2 group, wherein A^1 has the above-defined meaning,
 - the alkyl group comprising 1 to 18 carbon atoms and able to carry - $(AO)_a$ -R groups
- and
- the group



wherein B designates an alkylene group having 2 to 18 carbon atoms,

- r is the number of structure units $-(AO)_a$ -R carried by all the R_j groups,
- q is the number of structure units $-(AO)_a$ -R carried by Q,
- the sum "r+q" is selected so that in said polymer (B) the sum of the molar masses of all said structure units (ii) $-(AO)_a$ -R is at least 50 % of molar mass of said polymer (B) preferably 90 % or more, based on the molar mass of said polymer
- y is an integer in the range of from 1 to 3, wherein when $y > 1$, the groups



are the same or different

- Q^1 , N, and the R_j groups can form together one or more rings, this ring or these rings moreover able to contain one or more other heteroatoms.

39b

2. Chemical-mechanical polishing (CMP) composition according any preceding claim, wherein the concentration of said one or more polymers (B) is selected so that
- no flocculation of ceria containing particles (A) occurs in the pH range of from 6 to 10

5 and/or

- at a pH in the range of from 6 to 10 the zeta potential of the particles containing ceria is in a range between + 30 mV and – 30 mV.

- 10
3. Chemical-mechanical polishing (CMP) composition according to any preceding claim, wherein in said polymer (B) or in at least one of said polymers (B)

(9.2)

wherein for each building unit of formula (9.2) independently from each other building unit of formula (9.2)

Ar^2 is selected from the group consisting of unsubstituted aromatic or heteroaromatic system having 5 to 10 carbon atoms in each case

E^2 is selected from the group consisting of N, NH and O, preferably O

$m = 2$ if $E^2 = N$ and $m = 1$ if $E^2 = NH$ or O

A is as defined above for building unit (9.1)

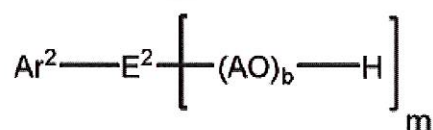
b is an integer selected from the range of from 0 to 300, preferably 1 to 5

M independently of any other M is H or one cation equivalent,

R^{26} is M or $Ar^1-O-(AO)_a-$

(9.3) at least one building unit comprising an aromatic or heteroaromatic system Ar^2 , wherein building unit (9.3) differs from building unit (9.2) exclusively in that the phosphonic group of the building unit (9.2) is replaced by H in building unit (9.3), and building unit (9.3) is not the same as building unit (9.1)

wherein preferably the building unit (9.3) is represented by general formula (9.3)



(9.3)

wherein for each building unit of formula (9.3) independently from each other building unit of formula (9.3)

Ar^2 , E^2 , m, A and b are as defined for building unit (9.2)