[0080]

[Table 2]

(% by mass)		Example									Comparative Example								
		2	3	4	5	6	7	8	9	10	2	3	4	5	6	7	8	9	10
(A)	Sodium polystyrenesulfonate (*3)	5	-	-	-	-	-	-	-	-	5	-	-	-	-	-	-	-	-
	Sodium polystyrenesulfonate (*4)	-	5	-	-	-	-	-	-	-	-	5	-	-	-	-	-	-	-
	Sodium polystyrenesulfonate (*5)	-	-	1	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-
	Sodium polystyrenesulfonate (*6)	-	-	-	1	-	-	-	-	-	-	-	-	1	-	-	-	-	-
	Sodium polystyrenesulfonate (*1)	-	-	-	-	1	-	-	-	-	-	-	-	-	1	-	-	-	-
	Sodium polystyrenesulfonate (*7)	-	-	-	-	-	1	-	-	-	-	-	-	-	-	1	-	-	-
	Styrenesulfonic acid-methacrylic acid copolymer(*8)	-	-	-	-	-	-	5	-	-	-	-	-	-	-	-	5	-	-
	Styrenesulfonic acid-styrene copolymer(*9)	-	-	-	-	-	-	-	5	-	-	-	-	-	-	-	-	5	-
	Styrenesulfonic acid-styrene copolymer(*10)	-	-	-	-	-	-	-	-	5	-	-	-	-	-	-	-	-	5
(B)	α-cyclodextrin	-	-	5	5	5	5	5	5	5	-	-	-	-	-	-	-	-	-
	γ-cyclodextrin	5	5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
(C)	Water	balance	balance	balance	balance	balance	balance	balance	balance	balance	balance	balance	balance	balance	balance	balance	balance	balance	balance
Evaluation	Rate of prevention of hair dangling after application	80	80	80	80	80	80	80	80	80	58	58	60	60	65	65	58	58	58
	Set retentivity (25°C, 90%RH)	75	80	82	84	84	84	75	85	85	45	50	50	55	58	58	25	58	58
	Hair washability	A	A	A	A	A	A	B	B	B	A	A	A	A	A	A	B	B	B
	Sprayability	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A

*3:PS-1,*4:PS-5,*5:PS-15,*6:PS-35,*7:PS-100,*8:MA-2005L,*9:ST-3510,*10:ST-5005(all manufactured by Tosoh Organic Chemical Co., LTd)

[0081]

[Table 3]

(% by mass)		Example									
		11	12	13	14	15	16	17	18	19	20
(A)	Sodium polystyrenesulfonate (*1)	1	1	1	1	1	1	1	-	5	5
	Sodium polystyrenesulfonate (*7)	-	-	-	-	-	-	-	1	-	-
(B)	α-cyclodextrin	-	-	-	1	2	11	13	13	7	3.5
	β-cyclodextrin	1	-	-	-	-	-	-	-	-	-
	Maltosyl-β-cyclodextrin(*11)	-	5	-	-	-	-	-	-	-	-
	Mixture of cyclodextrin and maltosyl-β-cyclodextrin (*12)	-	-	5	-	-	-	-	-	-	-
(D)	Naphthalenesulfonic acid	-	-	-	-	-	-	-	-	-	1.5
(C)	Water	balance	balance	balance	balance	balance	balance	balance	balance	balance	balance
Evaluation	Rate of prevention of hair dangling after application	73	80	80	73	75	80	82	82	82	80
	Set retentivity (25°C, 90%RH)	72	80	80	73	78	85	85	85	85	84
	Hair washability	A	A	A	A	A	A	A	B	B	A
	Sprayability	A	A	A	A	A	A	A	B	B	A

*11:G2-β-CD (manufactured by Pearl Ace Corporation)
*12:ISOELITE P(manufactured by Pearl Ace Corporation)

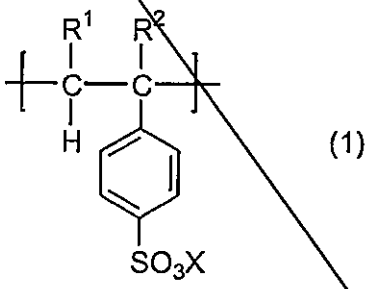
cation						
vity (25°C, 90%RH)	70	65	19	27	35	35
ability	C	A	B	B	B	B
y	A	A	A	A	A	A

manufactured by BASF SE)

CLAIMS

1. A hair cosmetic composition comprising following components (A) to (C):

(A) A polymer or copolymer having structural units represented by the general formula (1):



(1)

wherein R^1 and R^2 independently represent a hydrogen atom, a methyl group, or a carboxy group, X represents H, Na, K, Li, NH_4, or CH_2CH_3;

(B) cyclodextrin; and

(C) 50 to 95% by mass of water.

2. The hair cosmetic composition according to claim 1, wherein the component (B) is α-cyclodextrin.

3. The hair cosmetic composition according to claim 1 or 2, which is applied in the form of a mist.

4. The hair cosmetic composition according to any one of claims 1 to 3, wherein the content of the component (A) in the hair cosmetic composition is from 0.01 to 20% by mass.

5. The hair cosmetic composition according to any one of claims 1 to 4, wherein the weight average molecular weight of the component (A)

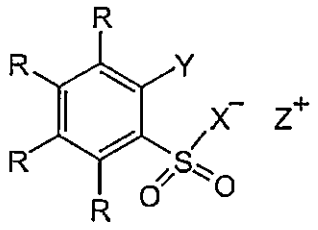
is from 1,000 to 1,400,000.

6. The hair cosmetic composition according to any one of claims 1 to 5, wherein the content of the component (B) in the hair cosmetic composition is from 0.1 to 30% by mass.

7. The hair cosmetic composition according to any one of claims 1 to 5, wherein the content of the component (B) in the hair cosmetic composition is from 3 to 15% by mass.

8. The hair cosmetic composition according to any one of claims 1 to 7, wherein the content mass ratio between the component (A) and component (B) ((A) : (B)) is from 1 : 1 to 1 : 1300.

9. The hair cosmetic composition according to any one of claims 1 to 8, which further comprises an aromatic sulfone compound represented by the general formula (3) as the component (D):



(3)

wherein R may be the same or different and independently represent a hydrogen atom or a monovalent hydrocarbon group, or adjacent two Rs are combined to form a saturated or unsaturated divalent hydrocarbon group; X represents an oxygen atom or a nitrogen atom, Y represents a hydrogen atom when X is an oxygen atom, or Y represents a carbonyl group bound to X when X is a nitrogen atom; and Z^+ represents a monovalent cation.

10. A hair styling method comprising application of the hair cosmetic composition according to any one of claims 1 to 9 in the form of a mist to hair.

	Styrenesulfonic acid-methacrylic acid copolymer(*8)	-	-	-
	Styrenesulfonic acid-styrene copolymer(*9)	-	-	-
	Styrenesulfonic acid-styrene copolymer(*10)	-	-	-
(B)	α-cyclodextrin	-	-	5
	γ-cyclodextrin	5	5	-
(C)	Water	balance	balance	balan
Evaluation	Rate of prevention of hair dangling after application	80	80	80
	Set retentivity (25°C, 90%RH)	75	80	82
	Hair washability	A	A	A
	Sprayability	A	A	A

[Table 2]

*3:PS-1,*4:PS-5,*5:PS-15,*6:PS-35,*7:PS-100,*8:MA-2005

	maltosyl-β-cyclodextrin (*12)	
(D)	Naphthalenesulfonic acid	
(C)	Water	ba
Evaluation	Rate of prevention of hair dangling after application	
	Set retentivity (25°C, 90%RH)	
	Hair washability	
	Sprayability	

*11:G2-β-CD (manufactured by Pearl Ace Corporati
*12:ISOELITE P(manufactured by Pearl Ace Corpor

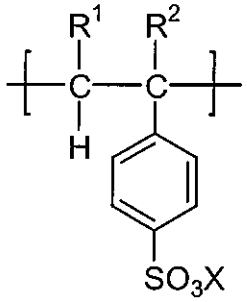
	after application	
Evaluation	Set retentivity (25°C, 90%RH	
	Hair washability	
	Sprayability	

*13: LUVISKOL VA73W(manufactured by B

CLAIMS

1. A hair cosmetic composition comprising following components (A) to (C):

(A) A polymer or copolymer having structural units represented by the general formula (1):



(1)

wherein R^1 and R^2 independently represent a hydrogen atom, a methyl group, or a carboxy group, X represents H, Na, K, Li, NH_4, or CH_2CH_3;

(B) cyclodextrin; and

(C) 50 to 95% by mass of water.

2. The hair cosmetic composition according to claim 1, wherein the component (B) is α-cyclodextrin.

3. The hair cosmetic composition according to claim 1 or 2, which is applied in the form of a mist.

4. The hair cosmetic composition according to any one of claims 1 to 3, wherein the content of the component (A) in the hair cosmetic composition is from 0.01 to 20% by mass.

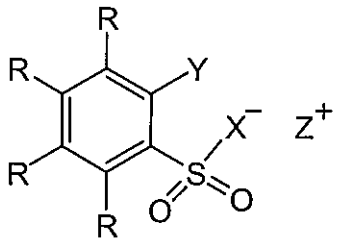
5. The hair cosmetic composition according to any one of claims 1 to 4, wherein the weight average molecular weight of the component (A) is from 1,000 to 1,400,000.

6. The hair cosmetic composition according to any one of claims 1 to 5, wherein the content of the component (B) in the hair cosmetic composition is from 0.1 to 30% by mass.

7. The hair cosmetic composition according to any one of claims 1 to 5, wherein the content of the component (B) in the hair cosmetic composition is from 3 to 15% by mass.

8. The hair cosmetic composition according to any one of claims 1 to 7, wherein the content mass ratio between the component (A) and component (B) ((A) : (B)) is from 1 : 1 to 1 : 1300.

9. The hair cosmetic composition according to any one of claims 1 to 8, which further comprises an aromatic sulfone compound represented by the general formula (3) as the component (D):



(3)

wherein R may be the same or different and independently represent a hydrogen atom or a monovalent hydrocarbon group, or adjacent two Rs are combined to form a saturated or unsaturated divalent hydrocarbon group; X represents an oxygen atom or a nitrogen atom, Y represents a hydrogen atom when X is an oxygen atom, or Y represents a carbonyl group bound to X when X is a nitrogen atom; and Z^+ represents a monovalent cation.

10. (Added) The hair cosmetic composition according to any one of claims 1 to 9, wherein the component (A) preferably contains the structural

units represented by the general formula (1) in the amount of 60 to 100% by mass in one molecule.

11. (Added) The hair cosmetic composition according to any one of claims 1 to 10, wherein the component (A) is one or more polymers or copolymers selected from the group consisting of polystyrenesulfonic acid sodium, a styrenesulfonic acid-methacrylic acid copolymer, and a styrenesulfonic acid-styrene copolymer.

12. (Added) The hair cosmetic composition according to any one of claims 1 to 11, wherein the content of ethanol in the hair cosmetic composition is from 0 to 4% by mass.

13. (Added) The hair cosmetic composition according to any one of claims 9 to 12, wherein the content of the component (D) in the hair cosmetic composition is from 0.1 to 20% by mass.

14. (Added) The hair cosmetic composition according to any one of claims 1 to 13, wherein the viscosity of the hair cosmetic composition is 0.1 mPa•s or more and 100 mPa•s or less.

15. (Amended) A hair styling method comprising application of the hair cosmetic composition according to any one of claims 1 to 14 in the form of a mist to hair.

16. (Added) Use of the composition according to any one of claims 1 to 14, for use as hair cosmetic composition.