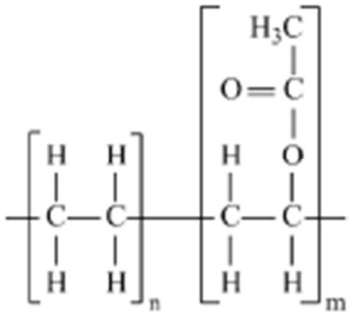
WHAT IS CLAIMED IS:

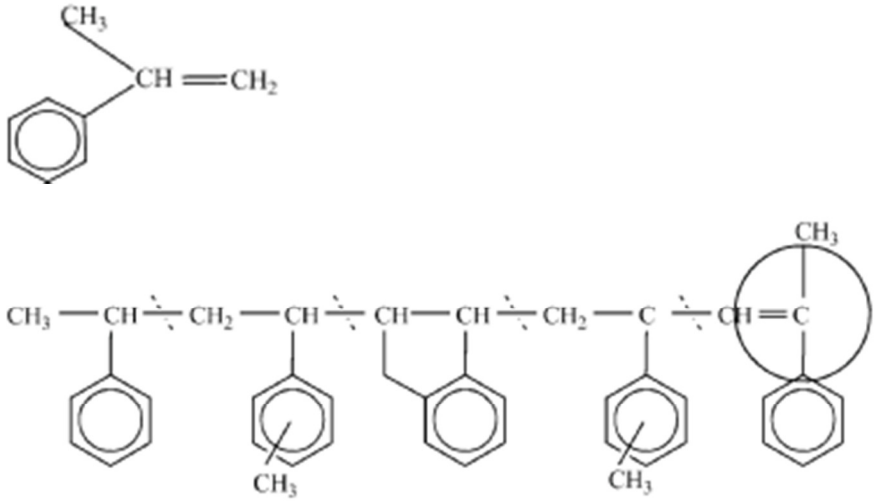
~~1. A spandex fiber having improved adhesive characteristics with a hot melt adhesive, wherein in a manufacture of the spandex fiber using a polyurethane urea polymer, an ethylene vinyl acetate monomer or polymer, or a derivative thereof represented by the following chemical formula 1 is used as an adhesion enhancer in an amount of 0.1 to 30 wt.% to enhance the adhesive characteristics with the hot melt adhesive,~~

~~[Chemical Formula 1]~~



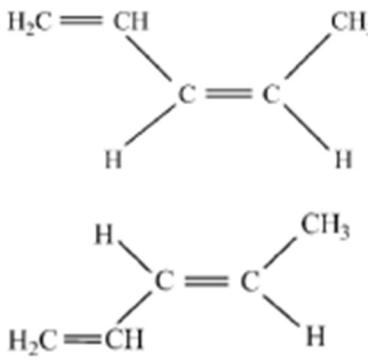
~~2~~1. A spandex fiber having improved adhesive characteristics with a hot melt adhesive, wherein in a manufacture of the spandex fiber using a polyurethane urea polymer, a C9 hydrocarbon-based resin monomer or polymer, or a derivative thereof represented by the following chemical formula ~~2~~ 1 is used as an adhesion enhancer in an amount of 0.1 to 30 wt.% to enhance the adhesive characteristics with the hot melt adhesive,

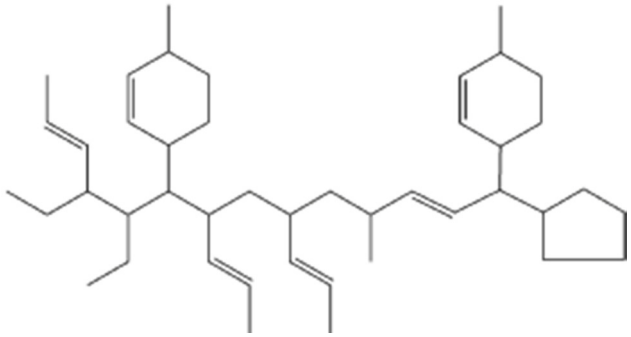
[Chemical Formula ~~2~~ 1]



~~3~~2. A spandex fiber having improved adhesive characteristics with a hot melt adhesive, wherein in a manufacture of the spandex fiber using a polyurethane urea polymer, a C5 hydrocarbon-based resin monomer or polymer, or a derivative thereof represented by the following chemical formula ~~3~~ 2 is used as an adhesion enhancer in an amount of 0.1 to 30 wt.% to enhance the adhesive characteristics with the hot melt adhesive,

[Chemical Formula ~~3~~ 2]





~~4~~3. A spandex fiber having improved adhesive characteristics with a hot melt adhesive, wherein in a manufacture of the spandex fiber using a polyurethane urea polymer, a C5/C9 hydrocarbon-based resin copolymer or a derivative thereof is used as an adhesion enhancer in an amount of about 0.1 to 30 wt.% to enhance the adhesive characteristics with the hot melt adhesive, a C5/C9 hydrocarbon-based resin copolymer, or a derivative thereof being prepared by copolymerization of the C9 hydrocarbon-based resin monomer or polymer, or the derivative thereof represented by the chemical formula ~~2~~ 1 as claimed in claim ~~2~~ 1 and the C5 hydrocarbon-based resin monomer or polymer, or the derivative thereof represented by the chemical formula ~~3~~ 2 as claimed in claim ~~3~~ 2.

~~5. A method for manufacturing a spandex fiber having improved adhesive characteristics with a hot melt adhesive, wherein in a manufacture of the spandex fiber using a polyurethane urea polymer, the ethylene vinyl acetate monomer or polymer, or the derivative thereof represented by the chemical formula 1 as claimed in claim 1 is used as an~~

~~adhesion enhancer in an amount of 0.1 to 30 wt.% to enhance the adhesive characteristics with the hot melt adhesive.~~

~~6~~4. A method for manufacturing a spandex fiber having improved adhesive characteristics with a hot melt adhesive, wherein in a manufacture of the spandex fiber using a polyurethane urea polymer, the C9 hydrocarbon-based resin monomer or polymer, or the derivative thereof represented by the chemical formula ~~2~~ 1 as claimed in claim ~~2~~ 1 is used as an adhesion enhancer in an amount of 0.1 to 30 wt.% to enhance the adhesive characteristics with the hot melt adhesive.

~~7~~5. A method for manufacturing a spandex fiber having improved adhesive characteristics with a hot melt adhesive, wherein in a manufacture of the spandex fiber using a polyurethane urea polymer, the C5 hydrocarbon-based resin monomer or polymer, or the derivative thereof represented by the chemical formula ~~3~~ 2 as claimed in claim ~~3~~ 2 is used as an adhesion enhancer in an amount of 0.1 to 30 wt.% to enhance the adhesive characteristics with the hot melt adhesive.

~~8~~6. A method for manufacturing a spandex fiber having improved adhesive characteristics with a hot melt adhesive, wherein in a manufacture of the spandex fiber using a polyurethane urea polymer, the C5/C9 hydrocarbon-based resin

copolymer, or the derivative thereof is used as an adhesion enhancer in an amount of about 0.1 to 30 wt.% to enhance the adhesive characteristics with the hot melt adhesive, the C5/C9 hydrocarbon-based resin copolymer or the derivative thereof being prepared by copolymerization of the C9 hydrocarbon-based resin monomer or polymer, or the derivative thereof represented by the chemical formula ~~2~~ 1 as claimed in claim ~~2~~ 1 and the C5 hydrocarbon-based resin monomer or polymer, or the derivative thereof represented by the chemical formula ~~3~~ 2 as claimed in claim ~~3~~ 2.