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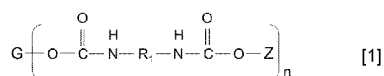
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(54) Title: COATING COMPOSITION, METHOD OF MAKING A HYDROPHILIC COATING ON A SUBSTRATE, AND MEDICAL DEVICE COMPRISING SUCH COATING



(57) Abstract: The disclosure relates to a coating composition comprising a polymerizable compound of formula [1], wherein G is a residue of a hydrophobic hydroxy-functional oligomer, n is 1-10, each R₁ independently is a residue of a C₆-C₂₀ aliphatic, cycloaliphatic, or aromatic hydrocarbon compound, and Z is a moiety having a polymerizable group; Formula [1] a hydrophilic polymer; a photo-initiator; optionally one or more further components, and a solvent. The polymerizable compound of formula [1] is typically present in an amount of 2.0- 30 mass% based on total dry mass of the composition. Such coating composition can be made into a well-adhering single-layer hydrophilic coating on a surface of polymer substrates without providing a primer layer or chemically modifying the surface of the substrate. Upon wetting, the coating shows excellent lubricity and durability. In further aspects, the disclosure provides a method of applying a hydrophilic and optionally lubricious coating to an article; and an article like a medical device having on at least part of its surface a single-layer, hydrophilic and optionally lubricious coating, like a catheter, guidewire, or a delivery device for an implant.

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