

Title (en)
PROCESS FOR POLYMERIZING CYCLICAL OLEFINS

Title (de)
VERFAHREN ZUR POLYMERISATION VON CYCLISCHEN OLEFINEN

Title (fr)
PROCEDE DE POLYMERISATION D'OLEFINES CYCLIQUES

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Application
EP 95938425 A 19951106

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Abstract (en)
[origin: WO9616103A1] The invention concerns a process for the photocatalytic polymerization of a cyclical olefin or of at least two different cyclical olefins in the presence of a metal compound as catalyst. The process is characterized in that photochemical ring-opening metathesis polymerization is carried out in the presence of a catalytic amount of at least one carbene-free, bivalent-cationic ruthenium or osmium compound which contains at least one phosphine group, at least one photolabile ligand, and optionally neutral ligands bonded to the metal atom, a total of 2 or 3 ligands being bonded, and which contains acid anions for balancing the charge. The process can also be carried out such that irradiation is firstly performed followed by polymerization by heating. The process is used, for example, for producing thermoplastics shaping compounds, coatings and images in relief.

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