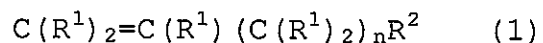


ABSTRACT

The present invention relates to a method of producing a polymer in the method for producing a copolymer of olefin
5 and a polar group-containing monomer represented by formula (1):



(in the formula, the symbols have the same meanings as described in the description), the method comprising using
10 a complex of a metal in Group 10 of the periodic table as a catalyst; and supplying a catalyst solution separated from a polymer after the polymerization reaction to a polymerization reaction system to recycle and re-use the catalyst. The production method of the present invention
15 can dramatically reduce the catalyst cost.