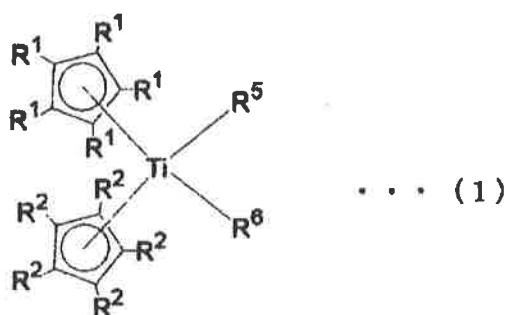


# Abstract

## CATALYST COMPOSITION FOR HYDROGENATION AND METHOD FOR HYDROGENATION USING THE SAME

A catalyst composition for hydrogenation including  
(A) to (D), in which a mass ratio (D)/(A) is 0.01 to 2.00.  
(A): a titanocene compound represented by following  
formula (1),



(wherein R<sup>5</sup> and R<sup>6</sup> are selected from the group  
consisting of hydrogen, a hydrocarbon group having 1 to  
12 carbon atoms, an aryloxy group, an alkoxy group, a  
halogen group, and a carbonyl group, and R<sup>1</sup> and R<sup>2</sup> are  
selected from hydrogen and a hydrocarbon group having 1  
to 12 carbon atoms)

(B): a compound containing an element selected from Li,  
Na, K, Mg, Zn, Al, and Ca,

(C): an unsaturated polymer having a fraction of an  
olefinic unsaturated double bond content of side chains  
based on a total olefinic unsaturated double bond content  
of 0.25 to 1.0, and

(D): a polar compound.