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(54) Title: SELECTIVE HYDROGENATION PROCESS AND CATALYST

Component	Range of component wt. %	Preferably wt. %	(I)
Ni	3 - 15	4 - 11	
Cu	0 - 1	0.0 - 0.6	
Pd	0.005 - 0.2	0.01 - 0.1	
Ag	0 - 10	0 - 5	
Group IA	0 - 2.5	0 - 1.5	
Group IIA & B	0 - 25	0.1 - 5	

(57) Abstract: A supported catalyst for selective hydrogenation of acetylenes comprising 3-15 wt. % Ni promoted with 0.005 - 0.2 Pd on a support. The catalyst is prepared by depositing nickel promoted with palladium on a support, containing one or more optional elements from copper, silver, Group IA (Li, Na, K, Rb, Cs, Fr) and Group IIA (Be, Mg, Ca, Sr, Ba, Ra) and B (Zn, Cd,) of the periodic table of elements and characterized as: Table (I).



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