palladium catalyst, wherein the feed comprises from 2 to 6 mol % carbon dioxide, further wherein the concentration of the carbon dioxide ~~in~~ the feed is controlled at a constant concentration wherein the formation of carbon dioxide is suppressed when compared to a process wherein less than 2 mol% carbon dioxide is present in the feed.

16. The process of claim 1 wherein the palladium catalyst further comprises gold, copper, silver, or mixtures thereof.
17. The process of claim 1 wherein the palladium catalyst further comprises an activator.
18. The process of claim 17 wherein the activator is selected from the group consisting of a potassium salt, a cesium salt, and combinations thereof.
19. The process of claim 1 wherein the palladium catalyst further comprises a carrier.
20. The process of claim 19 wherein the carrier is alumina, silica, titania, carbon, or a mixture thereof.

palladium catalyst, wherein the feed comprises from 2 to 6 mol % carbon dioxide, further wherein the concentration of the carbon dioxide in the feed is controlled at a constant concentration wherein the formation of carbon dioxide is suppressed when compared to a process wherein less than 2 mol% carbon dioxide is present in the feed.

16. The process of claim 1 wherein the palladium catalyst further comprises gold, copper, silver, or mixtures thereof.
17. The process of claim 1 wherein the palladium catalyst further comprises an activator.
18. The process of claim 17 wherein the activator is selected from the group consisting of a potassium salt, a cesium salt, and combinations thereof.
19. The process of claim 1 wherein the palladium catalyst further comprises a carrier.
20. The process of claim 19 wherein the carrier is alumina, silica, titania, carbon, or a mixture thereof.