hydrogen gas electrode

A thin foil of platinum electrolytically coated with a finely divided deposit of platinum or palladium metal, which catalyses the electrode reaction:

\[ \text{H}^+ + \text{e}^- \rightarrow \frac{1}{2}\text{H}_2 \]

in solutions saturated with hydrogen gas.

Source:
PAC, 1985, 57, 531 (Definition of pH scales, standard reference values, measurement of pH and related terminology (Recommendations 1984)) on page 540