

### Summary.

Certain reducing agents increase the oxidizing potential of the dichromate ion on platinum by amounts up to two-tenths of a volt. No other oxidizing agent was found which would give a similar effect.

The potential continues to increase up to the very end point of the reaction and is highest when the dichromate concentration is least. A final drop of 0.1 normal reducing agent often depresses the potential by half a volt.

The duration of the effect varies with the reducing agent used from a few seconds to many hours. Chlorides are fatal to the permanency, owing apparently to a side reaction.

The phenomenon may be plausibly explained by assumptions of catalytic action.

An improved apparatus and method of titrating dichromate and ferrous salts, based on the phenomenon, is suggested.

When the end point of this reaction is determined with a ferricyanide indicator, 0.0003 gram excess of ferrous iron in each hundred cubic centimeters of solution is present when the blue color barely develops within thirty seconds.

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### A CORRECTION.

The paper in the July number of *THIS JOURNAL* on "Some Applications of the Hydrogen Electrode in Analysis, Research and Teaching," was made somewhat unintelligible by a rather natural mistake made after the proof was read. The writer had inserted the titles of the curves as sub-headings in the manuscript as each curve was discussed. When the proof was read they were still in their proper places. However, when the cuts were inserted these sub-headings were removed to the cuts, which were, of course, placed frequently out of their immediate connection with the text. At the beginning of a number of paragraphs, therefore, the reader is at a loss to know to which curve the text refers. The following corrections should be made:

Page 853, paragraph 2, Fig. 3.

Page 857, paragraph 3, Fig. 4.

Page 861, paragraph 1, Fig. 7.

Page 862, paragraph 1, Fig. 8; paragraph 2, Fig. 9.

Page 863, paragraph 1, Fig. 10.

Page 864, paragraph 1, Fig. 11.

Page 866, paragraph 1, Fig. 12; paragraph 4, Fig. 13.

Page 869, paragraph 2, Fig. 15.

The reference to the work of Blum, page 863, should be *THIS JOURNAL*, 34, 123 (1912).

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