

A NEW PROCESS FOR THE EXTRACTION  
OF  
COPPER FROM ITS ORES,

BY

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This new process, for which Letters Patent have been granted in the United States, Great Britain, Canada and Newfoundland, may be understood from the specification of the British patent, given below, to which are appended a series of explanatory notes and comments. The date of the patent in Canada is Jan. 14, 1869, in the United States, Feb. 9, 1869, and in the United Kingdom, Aug. 13, 1869.

SPECIFICATION.

1. For the extraction of copper from its ores by this process it should be in the state of an oxyd or some compound thereof, as oxychlorid or carbonate. These oxydized forms of copper are decomposed under proper conditions by protochlorid of iron, with the production of dichlorid of copper, which is soluble in certain saline solutions, and in some cases a portion of protochlorid of copper, together with insoluble peroxyd of iron, and more or less insoluble oxychlorid or basic persalt of iron, which may be rendered soluble by the action of sulphurous acid.

2. The naturally or artificially oxydized ores are to be digested with a watery solution of neutral protochlorid of iron, with or without the addition of an earthy or alkaline chlorid, as common salt. The neutral protochlorid of iron may be conveniently prepared by double