



# **A Most Damnable Invention: Dynamite, Nitrates, and the Making of the Modern World**

*Stephen R. Bown*

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Swedish chemist Alfred Nobel's discovery of dynamite made possible the famous industrial megaprojects that transformed the countryside and defined the era, including the St. Gothard rail tunnel through the Alps, the clearing of New York harbor, the Panama Canal, and countless others. Dynamite also caused terrible injuries and great loss of life, and, in some cases, incalculable and irreparable environmental damage. Nobel was one of the richest men in a society rapidly transforming under the power of his invention, but with a troubled conscience, he left his estate to the establishment of the world-famous prizes that bear his name.

As the use of explosives soared and growing populations consumed more food, nations scrambled for the scarce yet vital organic ingredient needed for both. The quest for nitrates takes us from the rural stables and privies of preindustrial Europe to the monopoly trading plantations in India and to the Atacama Desert in South America. Nitrates were as valuable in the nineteenth century as oil is in the twenty-first and were the cause of similar international jockeying and power politics.

The "nitrogen problem" of creating inorganic nitrates was solved by an enigmatic German scientist named Fritz Haber. His breakthrough not only prolonged the First World War but became the foundation of the green revolution and the tripling of world population since then. Haber is also known as the "father of gas warfare" for his work on poison gas. When he was awarded a Nobel Prize for his work in chemistry, it sparked international outrage and condemnation.

*A Most Damnable Invention* is a human tale of scientific obsession, shadowy immorality, and historical irony, and a testament to the capacity for human ingenuity during times of war.

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