



IPApproach

Patented Product Valuation for Patent Number 8,288,587

“CHELATE COMPOUNDS”

Redacted Summary: Full document including market overview, exemplary players and product, and possibly EOUs available upon request.

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EXECUTIVE SUMMARY:

IPApproach LLC is pleased to present the attached exclusive patent for **SALE OR LICENSE “CHELATE COMPOUNDS”** which include U.S. Patent **US 8,288,587 B2** assigned to **Mohammad Hassan Nazaran**. The IP relates to a chelate compound which comprises of nitrogen source, an acidic source, first element source including sodium, chlorine, potassium and second element source including Ca, Mg, Br, Cl. A **METHOD** for production of different products with various applications. This means by using a specific, fixed and base technology, it is possible to make diverse products in different areas.

The independent claim 1 is broad and it is a base technology which can be applicable to Fertilizer, Animal Nutrition and Medicine.

The technology disclosed provides the following advantages,

- Higher Absorption Rate, Greater Efficiency, Environmental Compatibility and Lower Consumption Doses without Environmental Pollution.
- The chelate compounds, such as chelate Nano compounds, improves the delivery and collection of various elements and/or metal ions in all pH environments, including highly acidic and alkaline environments.
- The small size of chelate Nano compounds less than 100 nm in at least one dimension, increases the likelihood of cell wall penetration.
- The chelate Nano compounds has higher resistance against structural breakage and/or deformation in highly acidic or alkaline environments.
- The high customizability of the chelate Nano compounds to deliver or collect different elements and/or metal ions enables the chelate Nano compounds to be optimized for various uses.

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EXECUTIVE SUMMARY Continued:

- The chelate Nano compounds can be used in various environments, such as, for example, farms, orchards, treatment facilities, factories, research centers, plants, animals, and/or humans.
- The chelate compounds can reduce spoiled crop, improve soil texture, reduce underground water pollution, and increase the metabolism in plants resulting in more efficient absorption of elements in the soil and other fertilizers.
- **The Products Manufactured by this technology are NOT limited to Chelating Agents, even though they have chelate structures.** Independent of the type of technology applied in the synthesis of the products, their cost and use in the whole market is a potential opportunity. The cost-effectiveness and the unique properties and effects of these products make them have wide applications, so they can cover the whole market of agriculture, livestock, poultry, aquaculture feed supplements and human cancer medicine; this is while the old Chelating Compounds with about 50 years of existence hold a small share of the whole market, and this is because of their low cost-effectiveness and more side effects compared to the patented products.
- **With the aid of this technology, a new generation of fertilizers and livestock, poultry and aquaculture supplements can be produced.** It should be noted that the patented unique structure of chelates is just an advantage in the production of the above products and shouldn't limit the target markets.
- **Macro and Micronutrients fertilizers in agriculture (with the global fertilizer market of approx.\$ 155 billion, expanding at a CAGR of 3.8% until 2024).** For example, the current market for nitrogen fertilizers, especially urea, is approximately \$ 80 billion, while with this nanotechnology, it provides the capability to produce a nano nitrogen fertilizer whose consumption amount is one third of the current urea fertilizers (making it much cheaper) and it doesn't have the side effects of the current urea fertilizers, such as leaching, soil salinity

and absorption rate.

EXECUTIVE SUMMARY Continued:

- **Livestock, poultry and aquaculture feed supplements (with the global feed additive market of approx. \$ 33 billion in 2019 - poultry 8.2 billion & cattle 2.6 billion - expanding at a CAGR of 4.6% until 2024) whose market is basically the whole market of feed supplements in these areas (including the market of supplements with chelate structures).**

- **HUMAN cancer medicine (the total market for medicine in the world is around \$ 2000 billion, 10% of which is for cancer approx. \$ 200 billion).**

***IPApproach***

THANK YOU!

ANY QUESTIONS ABOUT THIS PATENT SALE OFFERING SHOULD BE DIRECTED TO:

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