

Figure 4 Total Sugar microphoto.

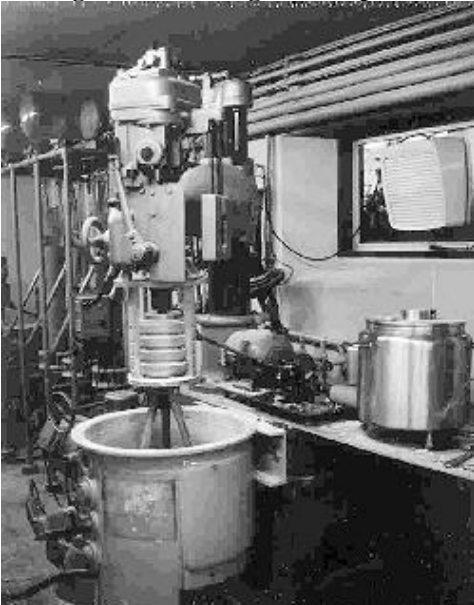


Figure 5 The first pot based on a multi-speed drill.

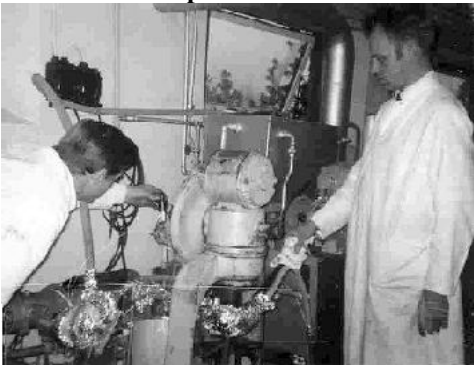


Figure 6 Pilot plant testing. Nielsen and Koch (mechanic) assisting.

Total Sugar, The Pot Process.

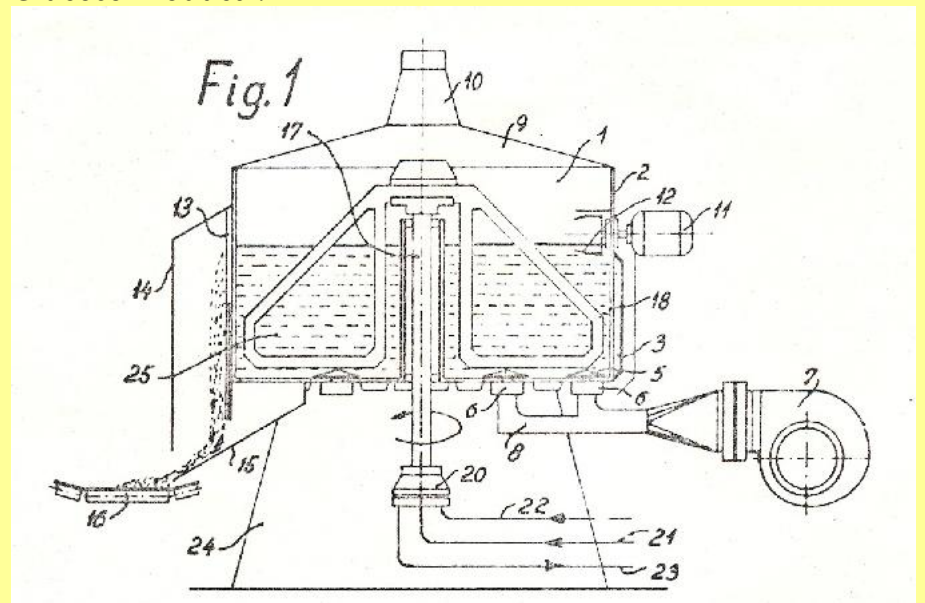
With in depth understanding of the glucose nature - achieved the hard way - I by-passed Niro by design of a new simplified process. It was based on the observation that the finest sugar always is at the bottom of the sugar bowl.

An old multi-speed drill was equipped with stirrer and a heated pot. Hot concentrated high DE glucose syrup was fed into the pot near the bottom. A high speed mill continuously produced fine sugar particles as seed. It worked.

A larger concrete mixer was adapted for the final test. One night, three o'clock in the morning everything was perfect. It was an amazing moment, when the finest polycrystalline total sugar began to pour out of the machine - pouring as fast as we were able to pump in the feed.

US Patent 3,743,539
Patented July 3, 1973.

"Process and Apparatus for Producing a Free-Flowing Granular Glucose Product".



The process was named "The Pot Process" and we got a patent. For the first time Kroyer accepted an employee on the application as inventor - even just as co-inventor.