

PHYTO EXPLO : GRANULAR BULK PENETRATING TOOL

B. VACQUER/F. VACQUER

D.M. FRANCE

34, rue du Contrat Social - 76000 ROUEN - FRANCE

To fumigate grain stored in granaries, silos or ships holds, probes have not been able to be inserted more than five meters into the grain due to the physical resistance of the grain mass. The results are therefore not very satisfactory as the treatment is mainly concentrated in the upper layers of the grain.

In order to increase the efficiency of grain treatment the D.M. company sought to define the ideal process and then from this design and develop equipment enabling the probes to go much deeper, to a depth of over 20 meters.

The company undertook an unprecedented technical study in this field and developed the PHYTO-EXPLO. This mobile, dynamic probe makes it possible to insert treatment products or testing equipment down into the grain and to take samples of it.

(Other applications are being researched)

On March 21, 1990, in the Soviet Union with the help and participation of ALL UNION RESEARCH INSTITUTE FOR PLANT QUARANTINE - Moscow, the first penetration test with the PHYTO-EXPLO in a ship's hold, completely loaded with wheat was carried out down to a depth of 23 meters. This test was made at the grain terminal of the NOVO TALLIN harbour aboard the M/V MARSHALL GRETCHKO, a bulk grain ship with the deepest hold (24 meters) of the international merchant fleet.

This tool with its unmatched performance, associated with the new antiparasite formulations offers a clean solution and makes it possible to overcome easily the difficulties encountered in foodstuffs stock conservation.