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Our ref. #201611/1  
dd. November, 25<sup>th</sup>, 2016

### **Topic: Historical outlines of the SiberForce (presented by Altek Europe ltd.) stirrers development**

Dear Colleagues

With the present letter I wish to make clear the situation that is currently present on the market of magneto-hydrodynamic stirrers for aluminum melting and holding furnaces. As far as you may be aware indeed Altek Europe ltd. is the owner of the trade mark SiberForce and promoting this product on the world market. The product line includes inductors called TYPE 400, 500, 600 and 700. Altek Europe spread the false information about absence IP rights from my side for the design and project documentation for the inductors similar to TYPE 400, 500, 600 and 700 due to these rights supposedly exclusively belong to RPC MHD and were "exclusively" passed to Altek Europe.

**I wish to describe some important moments for you step by step. These explanations make clear the situation with the "rights" for the inductors similar to SiberForce.**

1. The design of all SiberForce inductors contains the design of very old induction machines that are not covered by any IP rights anymore. The Inventor's certificate dd 1989 -" [7] US\_№1809507\_Inductor of linear asynchronous motor\_1989", contained the design of the intersecting winding that is used by all currently manufactured SiberForce inductors. The applicant at that time was – Krasnoyarsk State Technical University which is now a part of the Siberian Federal University. The patent for this certificate was never claimed neither in Russia nor in any other country. One of the main inventors is Viktor Timofeev who is the head of RPC MHD and who is the Licensor of Altek Europe ltd. for such type of inductors.

2. The dissertation of my scientific teacher – Viktor Timofeev who defended his thesis in 1994, contains in the section 6 pages 350, 351, 374 the design of inductor used for side installation.

3. I was the PhD candidate (since 2003) in Siberian Federal University and executed scientific research of the stirrers for furnaces. I am very good specialist for mathematical modeling and in 2006 I prepared my PhD paper "MHD stirrer of aluminum alloys in a holding furnace with electrical heating" which was prepared in 2006 and published in 2007. It is a public work that discovers all characteristics of the inductors like TYPE 400 and 500 in details. This paper clearly shows that I had excellent level of development and calculation stirrers even before Altek Europe ltd. was organized. This work was done by myself at the department of Electrical engineering and electrotechnics at Siberian Federal University. My scientific teacher was Viktor Timofeev - Director of RPC MHD and this paper was published under his support and approval.

4. I have been working at RPC MHD from 2003 till 2012 in a position of design engineer, project manager and international projects manager. Since 2008 I executed development of modernized TYPE 400 and 500 for Altek Europe in accordance to EU standards. I have eliminated the disadvantages of the previous design - poor air cooling and substituted the cross section of the copper bar to a more reliable one. I also simplified the design of inductors.

5. Till 2012 all team at RPC MHD have been working at the department of SFU (Electrical engineering and Electrotechnology) being only a part of a great team. They used the resources of SFU including software, computers, laboratories, office rooms, etc. At that there was no right distribution of the results obtained and the correct transfer to RPC MHD. Based on such fact SFU has legal right to use all these results without asking for any permission at RPC MHD.

6. At the moment neither RPC MHD nor Altek Europe (or any other company in the world) has any rights or may officially claim for the intellectual property rights in the form of a patent for design of inductors similar to SiberForce TYPE 400, 500, 600, 700. The reason is easy - no one can patent anything that was well known from the books, old patents and open sources like my PhD paper.

7. During 2012 - 2015 my company FlowTech LLC was doing the rework of the SiberForce inductors design as well as technical consulting during all projects administration. The Service contract (2012 - 2015) between my company FlowTech LLC and RPC MHD included the support of Altek Europe.

Evgeny Pavlov or UniMet do not sell the confidential information or documentation of RPC MHD. If you have such facts I ask you to inform me about it immediately. All documentation being sold by UniMet to the customers was created by UniMet team, based on UniMet resources and has the stamp of UniMet. If the inductors developed by UniMet have similar but better design than SiberForce inductors presented by Altek Europe it is based mainly on my experience of design and development.

The results of my work correspond in greater degree to the result of work in Siberian Federal University where I am acting in a position of Deputy Vice-rector for finance and economic development. I express the will and the interests of SFU including the position that RPC MHD uses scientific results of the work too easy and without permission of the university.

Best regards,  
Evgeny A. Pavlov  
General Director at UniMet LLC  
PhD, Deputy vice-rector  
for finance & economic development  
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A handwritten signature in black ink, appearing to read 'Evgeny A. Pavlov', written in a cursive style.