



Prague October 2<sup>nd</sup> 2014

CTC Analytics AG 2014

**PAL** SYSTEM  
Ingenious sample handling

# 1985



# 1st





# 4222



# 1998 >>

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# 1998 >>



# 2007 >>



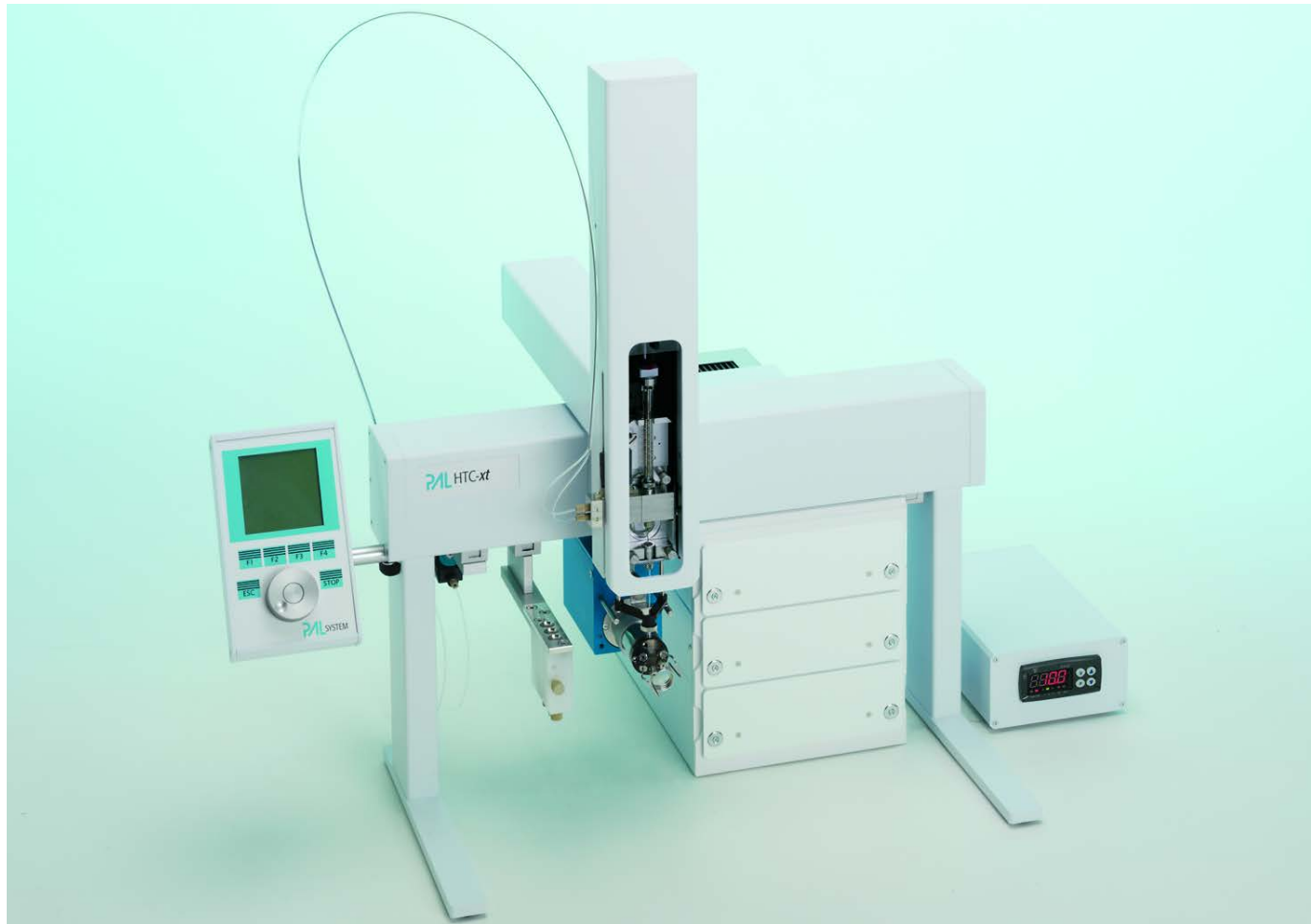
**Heiner Scherrer**  
Präsident des  
Verwaltungsrats

**Beat Lüthi**  
Vorsitzender der  
Geschäftsleitung

**Thomas Läubli**  
Mitglied der  
Geschäftsleitung  
für Marketing und  
Verkauf

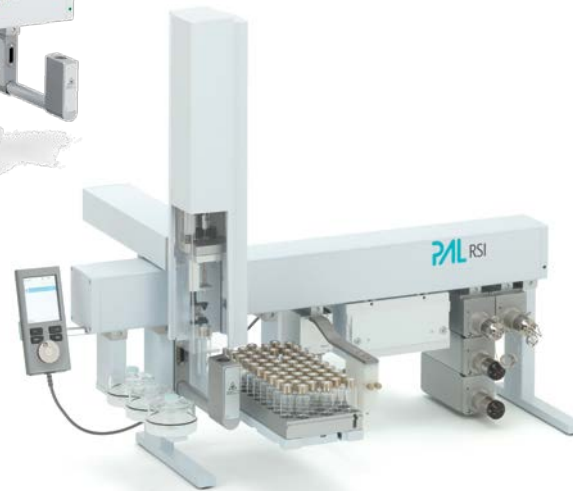
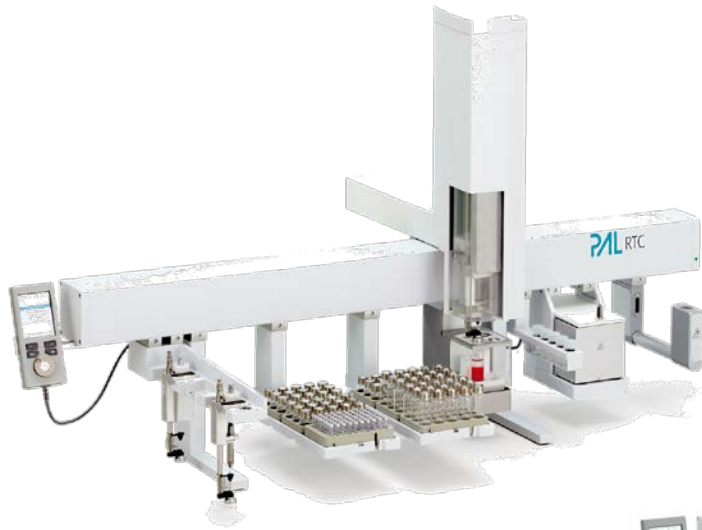
**Melchior Zumbach**  
Mitglied der  
Geschäftsleitung  
für Forschung und  
Entwicklung

# 2007 >>





# 2013



# 70

US » LEAP (VAR)  
CA » Phytronix  
BR » Sinc do Brasil

BE / NL » Interscience  
CH » Brechbühler (VAR)  
CZ / SK » Pragolab  
DE / AT » Axel Semrau (VAR)  
DE » Chromtech (VAR)  
FR » Alpha MOS  
IR » Aquilant Analytical Sciences (JVA)  
IT » AlfaTech  
SE » Kovalent  
UK » Aquilant Scientific (Presearch)

PAL System Dealer & VAR  
Dealer on evaluation  
PAL-xt Dealer

CN / TW » Unichrom (VAR)  
CN » BCT  
JP » AMR (VAR)  
KR » Euroscience  
SG / MY » Alpha-Analytical  
PH / ID » Alpha-Analytical  
TH » SciSpec  
VN » IETS  
AU » Shimadzu AU

40'000



# PAL SYSTEM

Ingenious sample handling

# 2014

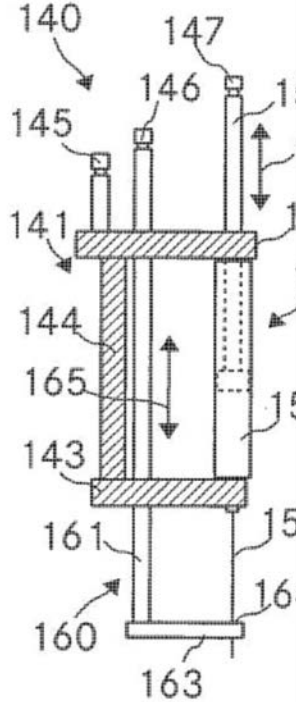




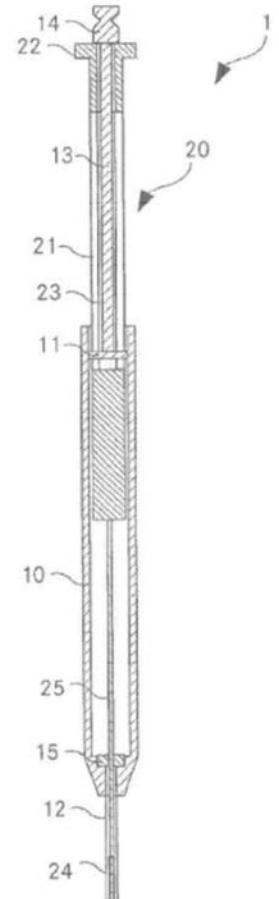
# 15

A coupling ring (13), which on its underside has a plurality of permanent magnets (16) that are preferably disposed concentrically and with angular offset, and which is disposed laterally on that part of the transport device which is moved in the Z direction, serves to temporarily couple an instrument (10) or tool onto a transport mechanism. The coupling ring cooperates with a coupling plate (17), which is disposed on the upper side of the respective instrument to be coupled-on, and which has permanent magnets (19) of correspondingly opposite

In the case of a tool (140) for handling a sample, which comprises a fastening device (141) for detachably fastening the tool to a tool holder of a sample handling apparatus, and comprises a sample manipulation device, for example realized as a syringe (150), fastened to the fastening device (141), this tool comprises a holding device, for example in the form of a needle guide (160), which, on the one hand, is fastened to the fastening device (141) so as to be movable in a coupling direction (165) and, on the other hand, can be coupled to and decoupled from the tool holder in the coupling direction (165).



In a method for performing a solid-phase micro-extraction, a holding device connected to an extraction device and secured on an adapter is held, while an actuating device connected to a guide device is moved. A device for performing a solid-phase microextraction comprises an actuating device connected to a guide device, and a holding device connected to an extraction device, wherein the extraction device is guided at least partially in the guide device, and wherein the extraction device is movable relative to the guide device by means of an actuation of the actuating device.



Die P  
welch  
einem

The apparatus  
substance, in  
for receiving v  
i.e. dilutor (1),  
receives and  
pumps the so  
A check valve  
designed as  
method for cle  
sample into a



Herzlichen Dank

**PAL** SYSTEM  
Ingenious sample handling