

needle between a first position for obtaining a sample for analysis and a second position for introducing standard media or air into said hollow input needle,

a sample measuring cell for analyzing liquid or gaseous samples, said sample measuring cell having an input side and an output side, said sample input device being connected to the input side of said measuring cell,

a feed pump which is connected to the output side of said sample measuring cell for drawing liquid or gaseous samples from said hollow input needle to said sample measuring cell and discharging the same to a waste vessel,

a funnel element having a conical portion and a flow channel therethrough, said flow channel having an inlet opening and an outlet opening, said outlet opening being connected directly to a smaller end of said conical portion, said funnel element being positioned relative to said sample input device such that, when the hollow input needle of said sample input device is moved to its second position, it will be in sealing contact with said smaller end of said conical portion adjacent to said outlet opening of said flow channel of said funnel element,

a first hose pipe connected to the inlet opening of said flow channel in said funnel element,

a valved second hose pipe connected to said first hose pipe to supply air thereto, and

a valved third hose pipe connected to said first hose pipe to supply said standard media thereto,

said tilting mechanism comprising a spring-loaded actuator flap which acts as a cover of said sample input device whenever said hollow input needle is in said second position, a tilting lever comprising a swivel bracket which is connected to said actuator flap, and a lever mechanism which includes arms connecting said funnel element to said swivel bracket to guide said funnel element in the direction of the central axis of said hollow input needle, said arms acting to push said funnel element away from said point of said hollow input needle whenever said actuator flap is lifted from its initial position, said tilting lever being provided with a cross axle which, in said second position of said hollow input needle, is at a certain distance from said hollow input needle, such that said cross axle will be in contact with said hollow input needle once a given lifting angle of said actuator flap has been reached, and that, upon said actuator flap being lifted further, said cross axle will carry along with it said hollow input needle, which can be moved around a fixed shaft in said apparatus until said first position has been reached.

2. An analyzing apparatus as defined in claim 1, wherein said lever mechanism and said tilting lever

provide a two-part articulated lever system, wherein said sample input device includes a fixed supporting part, and wherein springs are provided between said funnel element and said fixed supporting part for loading said actuator flap, causing it to be arrested in one of said two positions after a threshold point of said articulated lever system has been passed.

3. An analyzing apparatus as defined in claim 1, including a first vessel for containing a first standard media, and wherein said valved third hose pipe is connected between said first vessel and said first hose pipe.

4. An analyzing apparatus as defined in claim 3, including a second vessel for containing a second standard media, and a valved fourth hose pipe connected between said second vessel and said first hose pipe.

5. An analyzing apparatus as defined in claim 1, wherein said sample input device includes a supporting part having two parallel guide rods which extend in parallel with the central axis of said hollow input needle when said hollow input needle is in said second position; wherein said sample input device includes a carrier plate which supports said funnel element and is mounted to be movable along said parallel guide rods; wherein said tilting lever includes a shaft which extends between said guide rods; wherein said swivel bracket is rotatably mounted around said shaft and supports a cross axle; wherein said actuator flap has an upper end which is connected to said swivel bracket and a lower end, wherein lifting of said lower end causes said swivel bracket, when said hollow input needle is in its second position with its said one end located within said funnel element, to rotate about said shaft such that said cross axle will move in a circular arc toward said carrier plate; wherein said lever mechanism includes a cross element which is connected to move said carrier plate along said parallel guide rods, and wherein said arms of said lever mechanism are connected between respective opposite ends of said cross element and said cross axle, such that initial lifting of the lower end of said actuator flap will cause said swivel bracket to rotate about the shaft, thus causing said lever mechanism to move said carrier plate and thus the funnel element away from said one end of said hollow input needle, and after a certain additional lifting of the lower end of said actuator flap, causing said cross axle to contact said hollow input needle along its length and rotate said hollow input needle to said first position thereof.

6. An analyzing apparatus as defined in claim 5, wherein said swivel bracket is generally U-shaped and has a base and two arms, wherein said shaft extends through said arms, and including a needle support block mounted on said shaft between said arms, said hollow input needle being mounted in said needle support block.

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