

Cell culture apparatus is designed as vertical cylindrical sealed vessel equipped with technological pipes and medium-stirring device located inside the vessel, which includes driven vertical shaft and set of stirring elements. Driven vertical shaft is equipped with system of radial blades arranged along the shaft at a specific pitch. In the lower part of shaft, finger joint blades arranged in a spiral are sequentially placed, which smoothly transition into plate-shaped blades installed parallel to one another and designed with a left-hand angle of inclination, ensuring the formation of stable medium flows and uniform washing. Sealing of connection between shaft and vessel is ensured by bellows.