CLAIMS

1. A suction arrangement for a refrigeration compressor of the type which comprises:

- a hermetic shell ~~(10)~~ carrying a suction-inlet tube ~~(15)~~ provided with an outlet nozzle ~~(15a)~~ opened to the interior of the shell ~~(10)~~ and through which a refrigerant-fluid flow, containing at least one of gaseous and liquid phases, is expelled to the interior of the shell;

- a cylinder block ~~(11)~~ mounted in the interior of the shell (10) and defining a compression chamber ~~(CC)~~ with an end closed by a valve plate ~~(13)~~ and by a head ~~(14)~~;

- a suction muffler ~~(20)~~ mounted to the cylinder block ~~(11)~~ and externally incorporating: an admission tube ~~(21)~~ provided with an inlet nozzle ~~(22)~~ turned to the suction-inlet tube ~~(15)~~; and an outlet tube ~~(23)~~ in communication with the compression chamber ~~(CC)~~, ~~the arrangement being characterized in that~~ wherein the inlet nozzle ~~(22)~~ of the admission tube ~~(21)~~ is provided adjacent and external to the axial projection of the contour of the outlet nozzle ~~(15a)~~ of the suction-inlet tube ~~(15)~~ and turned to any one of a direction (A), which is orthogonal to the axis of the axial projection of the contour of the outlet nozzle to a region of said axial projection which is positioned in front of the inlet nozzle and of a direction (B) inclined in relation to the axis of the axial projection of the contour of the outlet nozzle of the suction-inlet tube and to an inner region of the shell for admission of the refrigerant-fluid flow and which is defined between the outlet nozzle and the inlet nozzle

~~a region of the shell (10) provided between the outlet nozzle (15a) and the inlet nozzle (22)~~, the inlet nozzle ~~(22)~~ admitting, under ~~at least one of~~ the conditions of underpressure in its interior ~~or deflection of the flow in the interior of the shell (10)~~, the gaseous phase, if existing in the refrigerant-fluid flow, whereas

the liquid phase, if existing in the refrigerant-fluid flow, is directed to a region of the shell ~~(10)~~ external to the inlet nozzle ~~(22)~~.

~~2. The suction arrangement, as set forth in claim 1, characterized in that the inlet nozzle (22) of the admission tube (21) is turned according to a direction (A) orthogonal to the axis (X) of the axial projection of the contour of the outlet nozzle (15a) of the suction-inlet tube (15) and to a region of the axial projection of the contour of the outlet nozzle (15a) of the suction-inlet tube (15) which is positioned in front of the inlet nozzle (22).~~

2~~3~~. The suction arrangement, as set forth in claim 1~~2~~, ~~characterized in that~~ wherein the inlet nozzle ~~(22)~~ of the admission tube ~~(21)~~ has a contour tangent to the contour of the refrigerant-fluid flow.

~~4. The suction arrangement, as set forth in claim 1, characterized in that the inlet nozzle (22) of the admission tube (21) is turned according to a direction (B) inclined in relation to the axis (X) of the axial projection of the contour of the outlet nozzle (15a) of the suction-inlet tube (15) and to an inner region of the shell (10), for admission of the refrigerant-fluid flow and which is defined between the outlet nozzle (15a) and the inlet nozzle (22).~~

~~5. The suction arrangement, as set forth in claim 4, characterized in that the inlet nozzle (22) of the admission tube (21) has its contour tangent to the axial projection of the contour of the outlet nozzle (15a) of the suction-inlet tube (15).~~

~~6. The suction arrangement, as set forth in claim 4, characterized in that the inlet nozzle (22) of the admission tube (21) has its contour tangent to the contour of the refrigerant-fluid flow.~~

~~7. The suction arrangement, as set forth in claim 1, characterized in that the inlet nozzle (22) of the admission tube (21) is turned according to a direction (C) parallel to the axis (X) of the axial~~

~~projection of the contour of the outlet nozzle (15a) of the suction-inlet tube (15).~~

~~8. The suction arrangement, as set forth in claim 7, characterized in that the inlet nozzle (22) of the admission tube (21) has its contour tangent to the axial projection of the contour of the outlet nozzle (15a) of the suction-inlet tube (15).~~

~~9. The suction arrangement, as set forth in claim 7, characterized in that the inlet nozzle (22) of the admission tube (21) has its contour tangent to the contour of the refrigerant-fluid flow.~~

~~10. The suction arrangement, as set forth in any of claims 1-9, characterized in that it comprises a deflector (25) positioned, in the interior of the shell (10), adjacent to the inlet nozzle (22) of the admission tube (21), facing the outlet nozzle (15a) of the suction-inlet tube (15) and deflecting the liquid phase, if existing in the refrigerant-fluid flow, to the interior of the shell (10) and the gaseous phase, if existing in the refrigerant-fluid flow, to the inlet nozzle (22) of the admission tube (21).~~

~~11. The suction arrangement, as set forth in claim 10, characterized in that the deflector (25) is carried by one of the parts of shell (10), cylinder block (11) and suction muffler (20).~~

~~12. The suction arrangement, as set forth in claim 11, characterized in that the deflector (25) is defined by at least one of the parts of cylinder block (11) and of a deflecting flange (25a) carried by any of the parts of cylinder block (11) and shell (10) .~~

~~13. The suction arrangement, as set forth in claim 12, characterized in that the deflector (25) is defined by a head (11).~~

~~14. The suction arrangement, as set forth in claim 12, characterized in that the deflector (25) is defined by a deflecting flange (25a) projecting arcuately outwardly from the admission tube (21), in the region of its inlet nozzle (22).~~

~~15. The suction arrangement, as set forth in claim 14, characterized in that the deflecting flange (25a) projects radially outwardly from the contour of the admission tube (21), defining a volute portion.~~