

Title (en)
PROBE FOR COOLING BY THE JOULE-THOMSON EFFECT

Publication
EP 0173599 B1 19880831 (FR)

Application
EP 85401389 A 19850709

Priority
FR 8411774 A 19840725

Abstract (en)
[origin: EP0173599A1] 1. Probe for cooling by Joule-Thomson expansion of the type comprising two concentric tubular jackets (1, 2) each provided with an outlet orifice (11, 13) and with an end wall (12, 14) ; a mandrel (3) situated within the inner jacket (1) ; a first heat exchanger coil (4) wound on the mandrel, intended to be connected to a source (8) of a first gas under high pressure and terminating in a first expansion orifice (16) situated within the inner jacket ; and a second coil (5) intended to be connected to a source (9) of a second gas under high pressure and terminating in a second expansion orifice (18) situated in the space separating the two jackets (1, 2), characterized in that the said space is practically free of any obstacle to the flow of the second gas up to the outflow orifice (13) of the outer jacket (2), and in that the two coils (4, 5) are wound together on the mandrel, the second coil (5) being terminated by a section (17) which passes through the end wall of the inner jacket (1) and at its extremity has the said second expansion orifice (18).

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F25B 9/02 (2013.01); **F25B 2309/023** (2013.01)

Cited by
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