

Title (en)  
Low temperature air separation process.

Title (de)  
Verfahren zur Tieftemperaturzerlegung von Luft.

Title (fr)  
Procédé de séparation d'air à basse température.

Publication  
**EP 0505812 B1 19951018 (DE)**

Application  
**EP 92104008 A 19920309**

Priority  
DE 4109945 A 19910326

Abstract (en)  
[origin: EP0505812A1] A low-temperature air separation process is described, in particular for producing oxygen of medium purity. In the process, the entire feed air (1) is compressed in a first compressor stage (2) and purified by adsorption (4). A first part-stream (101) of the air is fed into the pressure stage (7) of a two-stage rectification column (6). A second part-stream is fed directly to the low-pressure stage (8). According to the invention, it is separated off from the remaining feed air after the adsorption (4), warmed (3) by exchange with compressed feed air and expanded, producing work (13). The work thus recovered is used at least partially for compressing (2) the feed air. <IMAGE>

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