

Title (en)
NOISE ATTENUATING SUPERSONIC NOZZLE.

Title (de)
ÜBERSCHALLDÜSE MIT REDUZIERTEM GERÄUSCH.

Title (fr)
TUYERE SUPERSONIQUE ATTENUANT LE BRUIT.

Publication
EP 0414863 B1 19940727

Application
EP 90904011 A 19900207

Priority
• US 9000688 W 19900207
• US 30817389 A 19890208

Abstract (en)
[origin: WO9009243A1] A sound attenuating supersonic nozzle (1) has an exit (9) to throat (8) ratio in the range of 2.5 to 6.0, with longitudinal grooves (17) formed in the interior wall of the supersonic passageway (6) of the nozzle body (2). A shield is disposed about the exterior surface of the nozzle body, forming an exit cavity and an exit opening, and has gill cavity through which auxiliary air flows into the exit cavity and mixes with the supersonic flow.

IPC 1-7
B05B 1/00

IPC 8 full level
B05B 1/00 (2006.01); **B05B 1/04** (2006.01); **B05B 1/06** (2006.01); **B24C 1/00** (2006.01); **B24C 5/04** (2006.01)

CPC (source: EP US)
B05B 1/002 (2018.07 - EP US); **B24C 1/003** (2013.01 - EP); **B24C 5/04** (2013.01 - EP)

Cited by
DE102006015805A1; US11780051B2; EP1842598A1; WO2021138545A1

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