

**(19) World Intellectual Property Organization
International Bureau**



(43) International Publication Date
14 December 2000 (14.12.2000)

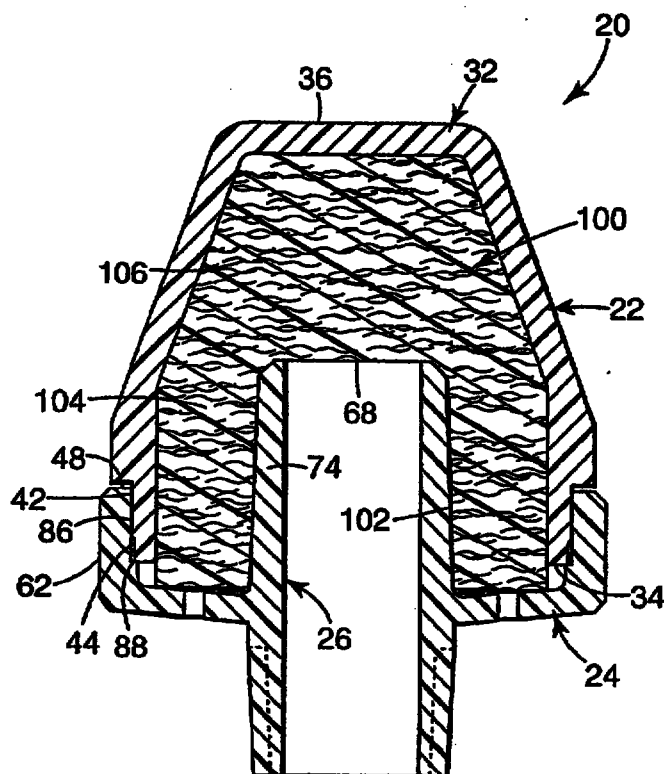
PCT

(10) International Publication Number
WO 00/75495 A1

(51) International Patent Classification⁷: F01N 1/24, 7/00, 1/08, B25D 17/12 (21) International Application Number: PCT/US99/21821 (22) International Filing Date: 20 September 1999 (20.09.1999) (25) Filing Language: English (26) Publication Language: English (30) Priority Data: 09/323,790 2 June 1999 (02.06.1999) US (71) Applicant: 3M INNOVATIVE PROPERTIES COMPANY [US/US]; 3M Center, P.O. Box 33427, Saint Paul, MN 55133-3427 (US).	(72) Inventors: HILLING, George, D.; P.O. Box 33427, Saint Paul, MN 55133-3427 (US). BLETTE, Russell, E.; P.O. Box 33427, Saint Paul, MN 55133-3427 (US). TREDINNICK, Kenneth, F.; P.O. Box 33427, Saint Paul, MN 55133-3427 (US). (74) Agents: MCGEEHAN, Lisa, M. et al.; 3M Innovative Properties Company, Office of Intellectual Property Counsel, P.O. Box 33427, Saint Paul, MN 55133-3427 (US). (81) Designated States (national): AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, DM, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, UZ, VN, YU, ZA, ZW.
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(54) Title: MUFFLER WITH ACOUSTIC ABSORPTION INSERT FOR LIMITED CLEARANCE PNEUMATIC DEVICE APPLICATIONS



(57) Abstract: A muffler (20) for attenuating noise produced by a pneumatic device having limited clearance. The muffler (20) includes a housing (22), a base (24) and an acoustic absorption insert (100). The housing (22) defines an upstream end and a downstream end (34), with the downstream end (36) being closed. Further, the housing tapers from a maximum width of less than approximately 1.5 inches (38 mm) to the downstream end. The base (24) is secured to the housing at the upstream end and includes a tube (26) for directing airflow and sound waves into the housing. Finally, the acoustic absorption insert (100) is disposed within the housing and includes a web of fibers configured to absorb sound waves. The muffler can be utilized with a pneumatic valve having limited space available for receiving the muffler, providing noise attenuation with minimal back pressure.

WO 00/75495 A1



(84) Designated States (regional): ARIPO patent (GH, GM, KE, LS, MW, SD, SL, SZ, TZ, UG, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG).

Published:

— With international search report.

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