Title (en)

DUCKBILL VALVE

Title (de)

LIPPENVENTIL

Title (fr)

CLAPET EN BEC DE CANARD

Publication

EP 0995060 A1 20000426 (EN)

Application

EP 98940173 A 19980706

Priority

- EP 9804225 W 19980706
- US 89259497 A 19970715
- US 8132898 A 19980519

Abstract (en)

[origin: WO9904187A1] A duckbill valve is provided which includes a hollow cylindrical elastomeric body (2) with first (4) and second (6) ends. The first end (4) has walls (8) parabolically tapering to an elongate slit (10), the slit being surrounded by an upper and lower lip (12). The second end (6) has a non-uniformly round (e.g. oval) outer wall terminating in an open mouth. When inserted into a perfectly round apertured fitting, the non-uniformly round outer walled elastomeric body is bowed to form-fit the round configuration thereby forcing shut the lips and slit. Upon increased air pressure within the elastomeric body, the slit is forced open. In a further embodiment, the inner wall of the second end may be non-uniformly (e.g. oval) round. Insertion of a round tubular fitting within the non-round inner wall of the elastomeric body also achieves a bowed form-fit configuration which forces shut the lips and slit.

IPC 1-7

F16K 15/14

IPC 8 full level

F16K 15/14 (2006.01)

CPC (source: EP)

F16K 15/147 (2013.01)

Citation (search report)

See references of WO 9904187A1

Designated contracting state (EPC)

DE ES FR GB IT

DOCDB simple family (publication)

WO 9904187 A1 19990128; AU 728691 B2 20010118; AU 8858698 A 19990210; BR 9811109 A 20000718; CA 2294914 A1 19990128; CN 1264456 A 20000823; EP 0995060 A1 20000426; ID 24197 A 20000713; JP 2001510272 A 20010731

DOCDB simple family (application)

EP 9804225 W 19980706; AU 8858698 A 19980706; BR 9811109 A 19980706; CA 2294914 A 19980706; CN 98807210 A 19980706; EP 98940173 A 19980706; ID 20000069 A 19980706; JP 2000503358 A 19980706