

Title (en)
Improvements relating to sealing arrangements.

Title (de)
Dichtungsanordnungen.

Title (fr)
Agencement d'étanchéité.

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Application
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Abstract (en)
The invention provides a sealing member in the form of a plate (12) with an aperture (16) therein, and a flexible diaphragm (14) partially overlying the aperture (16). The diaphragm (14) has an aperture through which a tube or pipe can be passed so as to stretch the diaphragm (14) so that it will seal around the pipe. Specifically the sealing member is a top plate (12) for a vacuum cleaner dust bag, the apertures being for receiving an inlet pipe of the vacuum cleaner which draws air through the dust bag for the filtering of same. The sealing member is provided with the diaphragm (14), applying a material such as a rubber latex which is in fluent condition to provide a ring of the fluent material which overlaps the plate and portion of the aperture (16). Whilst in this condition the ring material is cured to form a top flexible diaphragm (14). The rubber latex or the like may be in liquid form and may be applied by dripping the material from a head which overlies the plate (12) aperture (16) and an insert therein, and by rotating the head so that the drips when they fall onto the plate (12) and insert coalesce to form a continuous ring (18) of liquid which is held in that condition and subsequently cured to form the top flexible diaphragm (14).

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Citation (search report)
• US 2848063 A 19580819 - MEYERHOEFER CARL E
• US 3601291 A 19710824 - TESSMER EDWARD A
• US 2823761 A 19580218 - DUFF JACK E
• US 3417550 A 19681224 - FESCO JOHN J
• GB 2071566 A 19810923 - JENSEN O R
• US 3291882 A 19661213 - WARNER ROBERT E
• DE 704253 C 19410326 - MUELLER FRIEDRICH
• AT 356368 B 19800425 - SEMPERIT AG [AT]
• DE 3016164 A1 19811029 - SCHULTINK JAN

Cited by
WO2010018087A1; EP1059056A1; EP0787460A3; US2020390305A1; US6379409B1; WO03079878A1; US12042117B2; US9259127B2

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