

Title (en)  
Universal motor sweeper unit.

Title (de)  
Universelle Kehreinheit.

Title (fr)  
Unité universelle de balayage.

Publication  
**EP 0476483 A1 19920325 (EN)**

Application  
**EP 91115246 A 19910906**

Priority  
• IT 4687290 A 19900910  
• IT 4690690 A 19901207

Abstract (en)  
A universal unit (1) for motor sweepers and the like comprises a box (2) from whose lower opening (3) project the peripheral ends of the bristles constituting a rotating cylindrical brush (4). Said brush (4) is combined in approach with a tank (7) or (7') in which is positioned a cylindrical conveyor with radial bristles (5) or with a conveyor belt (6) which is also rotating or sliding. The box (2) is equipped or not with an advanced suction chamber (44) communicating with the suction mouth (11) aligned with said seat or tank (7) or (7'). The brush (4) and the conveyor (6) are powered independently or in direct or indirect combination with each other. The universal unit (1) can be combined with a suction, collection and filter unit (15) integral with or separate from said box (2) which is positioned with or without said unit (15) at the front, side or rear of self-propelled or towed vehicles (17), (18), (19) or on fixed or telescopic extensible moving arms (16) placed on said vehicles. Said applications may be single or double, with means rotating around fulcrums (23). <IMAGE>

IPC 1-7  
**E01H 1/04**; **E01H 1/08**

IPC 8 full level  
**E01H 1/04** (2006.01); **E01H 1/08** (2006.01)

CPC (source: EP)  
**E01H 1/045** (2013.01); **E01H 1/0845** (2013.01); **E01H 1/0854** (2013.01)

Citation (search report)  
• [Y] FR 2084470 A5 19711217 - STRAUB HANS  
• [Y] GB 380596 A 19320922 - WALTER JONATHAN LEWIN  
• [A] US 4754521 A 19880705 - ZONI SERGIO [IT]  
• [A] FR 412693 A 19100719 - JAMES JOHN SANTIN [US], et al  
• [A] GB 107470 A 19170705 - BARNETT WALTER, et al  
• [A] FR 2297286 A1 19760806 - MATERIEL DE VOIRIE [FR]  
• [A] DE 8806413 U1 19880721  
• [A] DE 2150496 A1 19730412 - CROKER EDGAR ALFRED

Cited by  
CN110184981A; NL2031279B1; DE29502694U1; FR2726589A1; DE19539350A1; CN106894375A; EP1391559A1; FR2746826A1; DE19851681A1; DE19851681C2; IT201800003020A1; US6735814B2; US6484353B2; WO0028150A1; WO2009149705A3

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