

Title (en)  
APPARATUS FOR MOVING SNOW, GRAVEL AND SOIL

Publication  
**EP 0063212 B1 19850529 (EN)**

Application  
**EP 82100984 A 19820211**

Priority  
IT 4000981 A 19810213

Abstract (en)  
[origin: EP0063212A2] The contrivance is composed of a central buffer element (3) whose curving surface maintains constant contact with two blades (1 & 2) whilst upper and lower extremities of a pivot (6) passing vertically through the body thereof pair with and lodge between two sets of horizontal overlapping lugs (4 & 5 and 49 & 50) protruding from the rear of said blades: there being a horizontal yoke (8) hinged to said pivot (6) and embracing upper lugs (4 & 5), a pair of oil-hydraulic cylinders (26 & 27) hinged to a sub-chassis (12) engaging side-irons (10) made fast to vehicle (11) carrying the contrivance, rods (28 & 29) of which being hinged to the rear of yoke (8); also a horizontal pivot (22) mounted to the rear of buffer (3) by way of a bushing (21) affixed at a tangent to a further vertical bushing (20) having prismatic inside section and countersunk ends and pairing with vertical prismatic pivot (19 min ) whose cylindrical extremities (19) form turning pairs with two bushings (18) furnished at rear with further horizontal bushings (17) accommodating hinge-pivots (16) for a double articulating parallelogram (15) anchored hindmost to said sub-chassis (12) and worked by an upwardly-inclined cylinder (23); provision being made for a pair of oil-hydraulic cylinders (32 & 33) inclined upward and forward from hinge-pins at a rear-extension (14) of sub-chassis (12) whose rods (34 & 35) each hinge with a bushing (38 & 39) turning about a horizontal pivot (40 & 41) attached to the rear of each blade (1 & 2). Not only does the contrivance allow for raising the blades, but also for their being spread, and orientated laterally, as well as for movement forward and or to the rear of the blade top-edges for the respective purposes of moving blades through a single central path of snow or other loose material in general, and through two lateral strips. A pair of quick-release couplings (13) completes the contrivance.

IPC 1-7  
**E01H 5/06**; **E02F 3/76**

IPC 8 full level  
**E01H 5/06** (2006.01); **E02F 3/76** (2006.01)

CPC (source: EP)  
**E01H 5/06** (2013.01); **E01H 5/066** (2013.01); **E02F 3/7613** (2013.01)

Cited by  
DE3790923C2; DE4230517A1; EP0124922A1; GB2215974A; DE29502693U1; RU2468153C2; KR100408486B1; FR2656017A1; FR2639007A1; CN101876165A

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