

Title (en)
SELF-CLEANING ROTARY SCREEN FOR FILTERING AIR

Publication
EP 0290200 A3 19890621 (EN)

Application
EP 88303843 A 19880428

Priority
US 4391587 A 19870429

Abstract (en)
[origin: EP0290200A2] A self cleaning rotary screen of a combine harvester is provided with a planar circular screen (54) that is secured to an outwardly extending circular flange having an external groove and an internal groove. The screen is rotatably mounted on a hinged door (30) by a plurality of freely rotatable wheels (44-48) which are spaced around an aperture (40) in a door plate (38) and engage in the internal groove of the flange. Also secured to the door are two freely rotatable idler sheaves (66, 68) located adjacent to the hinge axis (P) of the door so that the endless drive belt which runs in the external groove passes from the two idler sheaves to a positionally fixed drive sheave (70) in tangential directions approximately aligned with the hinge axis (P). The drive sheave is driven by the propulsion system of the harvester and its rotational axis intersects the hinge axis (P). The door (30) can thus be opened without uncoupling the belt (64).

IPC 1-7
F01P 11/12

IPC 8 full level
F01P 11/12 (2006.01)

CPC (source: EP)
F01P 11/12 (2013.01)

Citation (search report)
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• [A] DE 2542568 A1 19770407 - LTG LUFTECHNISCHE GMBH
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