

Title (en)
Counting disc of a sheet counting apparatus

Title (de)
Zählscheibe eines Blatt-Zählgeräts

Title (fr)
Disque de comptage d'un appareil de comptage de feuilles

Publication
EP 0737936 A1 19961016 (DE)

Application
EP 96810197 A 19960329

Priority
CH 103095 A 19950410

Abstract (en)
The rotating disk (1) has sections (2) equally spaced around its circumference, with tongues (3) extending in the direction of rotation of the disk (1). Each section (2) has a count opening (9) which causes a pneumatic count pulse to be output when it is covered by a sheet. Each section (2) also has a suction depression (4) whose width and depth increase in the direction opposite to the sense of rotation of the disk (1). Each section (2) also has a group of suction openings lying one after the other arranged in the depression (4). The openings are intermittently connected to vacuum sources via suction channels (6,7) such that in operation, the section in question leaf through the corners of all sheets in a stack. This separates the sheets from each other by suction and deformation and brings about the counting of the sheets. The suction openings in question lie in the middle of the suction depression (4). The section (7) of the channel opening out into the openings is aligned perpendicular to the disk plane and to the base of the suction depression. The suction force thus acts centrally on the depression and perpendicular to the base of the depression.

Abstract (de)
Die Zählscheibe (1) hat an ihrem Rand angeordnete Umfangsabschnitte (2), und jeder Umfangsabschnitt weist eine Saugmulde (4) auf, in der hintereinander liegende Saugöffnungen (5a bis 5f) angeordnet sind. Diese Saugöffnungen werden bei Drehung der Zählscheibe intermittierend an eine Saugluftquelle angeschlossen, so dass die Ecken eines Blattstapels nacheinander angesaugt, verformt, von den übrigen Blättern getrennt und durch Erzeugung eines pneumatischen Zählimpulses gezählt werden. Die Saugluftzuführung zu den Saugöffnungen (5a bis 5f) erfolgt über einen Kanal (6, 7), dessen in die Saugöffnungen mündender Abschnitt (7) senkrecht zur Ebene der Zählscheibe gerichtet ist. Ausserdem liegen die Saugöffnungen (5a bis 5f) in der Mitte der Saugmulde (4). <IMAGE>

IPC 1-7
G06M 9/02

IPC 8 full level
G06M 9/02 (2006.01)

CPC (source: EP)
G06M 9/025 (2013.01)

Citation (search report)
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