Title (en)

RIBBON BLENDER HAVING A PLURALITY OF SECTIONS JOINTLY FORMING RIBBONS

Publication

EP 0250793 A3 19890712 (EN)

Application

EP 87106798 A 19870511

Priority

US 86181386 A 19860512

Abstract (en)

[origin: EP0250793A2] A ribbon blender (32) has a shaft (34), and a plurality of blender sections (40, 42, 44) are positioned on the shaft and rotate with it. Three types of modular ribbon blender sections are used in forming the blender, including a center section (44) and first and second end sections (40, 42) assembled on opposite sides of the center section. The end sections are substantially the mirror image of each other. Each of the sections have a hub portion (46, 60, 72) and first ribbon segments (54, 68, 80) and second ribbon segments (56, 70, 82) located in generally helical paths that are spaced from the hub portion. The sections are assembled on the shaft so that the ribbon segments of one section form a continuation of segments of an adjacent section, thus forming substantially continuous helical ribbons around the shaft. The ribbon segments (80, 82) of the center section join an outer ribbon segment of one of the end sections with an inner ribbon segment of the other ribbon section to provide for cross mixing of material in the area of the center section of the ribbon blender. Such a ribbon blender is especially useful for mixing developer material in the sump of an electrographic apparatus, such as a copier/duplicator.

IPC 1-7

G03G 15/08; B01F 15/00

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B01F 7/00 (2006.01); **B01F 15/00** (2006.01); **G03G 15/08** (2006.01)

CPC (source: EP)

B01F 27/114 (2022.01); **B01F 27/1145** (2022.01); **G03G 15/0822** (2013.01)

Citation (search report)

- [A] EP 0160830 A1 19851113 - EASTMAN KODAK CO [US]
- [A] US 4187030 A 19800205 - GODLEY WILLIAM P [US]
- [XP] US 4610068 A 19860909 - SCHULTZ PETER G [US]
- [APD] EP 0216190 A1 19870401 - EASTMAN KODAK CO [US]

Cited by

US7137730B2; US7647009B2; US6585406B2; WO0188627A1

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