

[54] PRECISION COFFEE GRINDER

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[57] ABSTRACT

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A coffee grinder grinds a predetermined amount of roasted coffee beans based upon the weight of the beans. The beans fall from a hopper into a grinding head which grinds the beans in a two-stage process. The first stage includes a cracking cutter, consisting of a cone cutter and a reel cutter, which reduces the beans to an initial particle size of approximately 1/16 of an inch in cross-section. The particles are then progressed by the grinding head, for the second stage of fine grinding, to an adjustable micro grinder consisting of two opposing rings having micro teeth on their inwardly facing surfaces. The cutters and grinder rings are mounted on thermally conductive metal hubs and a fan draws air around and behind the cutting teeth to cool them and avoid heating the coffee particles during the grinding process.

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[58] Field of Search ..... 241/55, 56, 57, 161, 241/162, 163, 261.1, 261.2, 261.3, 7, 8, 28, 29, 66; 426/518

[56] References Cited

U.S. PATENT DOCUMENTS

938,923	11/1909	Walker	.....	241/161 X
989,217	4/1911	Wear	.....	241/161 X
1,488,166	3/1924	Pottratz	.....	241/161 X
2,045,591	6/1936	Falla	.....	241/161 X
2,934,278	4/1960	Roberson	.....	241/163

13 Claims, 6 Drawing Figures

