

- [54] **AUTOMATIC MACHINE FOR MAKING CRUSHED ICE**
- [76] Inventor: **Herbert E. Fiske**, P.O. Box 126, Broomfield, Colo. 80020
- [21] Appl. No.: **193,151**
- [22] Filed: **Oct. 2, 1980**
- [51] Int. Cl.<sup>3</sup> ..... **F25C 5/02**
- [52] U.S. Cl. .... **62/320; 62/348; 241/DIG. 17**
- [58] **Field of Search** ..... **62/320, 348, 352; 241/236, DIG. 17**

- 4,046,324 9/1977 Chambers ..... 241/236 X
- 4,107,943 8/1978 Ohling .
- 4,176,527 12/1979 Linstromberg ..... 62/320

**FOREIGN PATENT DOCUMENTS**

- 964632 3/1975 Canada ..... 241/236

*Primary Examiner*—William E. Tapolcai  
*Attorney, Agent, or Firm*—Wm. Griffith Edwards

[57] **ABSTRACT**

An ice making and crushing machine includes upright freezing plates for producing sheets of ice and a pair of oppositely rotating ice breaking members below the plates for receiving the ice upon release by defrosting. The breaking members comprise sets of equally spaced disks each having equally spaced radial arms longitudinally aligned on the members. When rotating the disks form longitudinal pockets which receive and separate the ice in portions and crush it in successive batches. Substantially the entire area of the freezing plates is exposed to water on one side and refrigerant on the other for speeding the production of ice and the refrigerant circulating system affords equal cooling and the forming of ice of the same thickness on both plates.

[56] **References Cited**

**U.S. PATENT DOCUMENTS**

- 181,273 8/1876 Low .
- 234,397 11/1880 Field .
- 308,760 12/1884 Fairman .
- 1,010,062 11/1911 Lyon ..... 241/236 X
- 1,048,332 12/1912 Miller .
- 2,524,815 10/1950 Leeson .
- 2,952,996 9/1960 MacLeod .
- 2,962,869 12/1960 Bartels .
- 3,037,714 6/1962 Bayston .
- 3,913,349 10/1975 Ohling ..... 62/348 X
- 4,044,568 8/1977 Hagen .

**21 Claims, 11 Drawing Figures**

