

THIS SHEET HAS BEEN
REPLACED

ABSTRACT

This invention relates to apparatus for continuous production of flake ice. The apparatus comprises one or more refrigerated discs (20) mounted on a hollow shaft (18, 21) (71). Each disc (20) rotates in the vertical plane and includes a plurality of narrow internal channels (30) which extend substantially over all of the operative portion of the disc (20) and are of substantially equal length. The disc(s) (20) form(s) the evaporator of a refrigeration circuit, and an evaporative refrigerant is circulated to the channels (30) in each disc (20) via the hollow shaft (18, 21) (71). During each cycle, water is applied to both external flat surfaces of each disc (20) at a first angular location and the film of water which adheres thereto freezes as the disc (20) rotates. The ice sheet so formed is removed from both sides of the disc (20) at a second angular location by scraper blades (40) (75).

Figure 12

This Sheet Has Been Replaced

