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<p>(21) International Application Number: PCT/US99/05246</p> <p>(22) International Filing Date: 11 March 1999 (11.03.99)</p> <p>(30) Priority Data: 09/058,547 10 April 1998 (10.04.98) US</p> <p>(71) Applicant: MINNESOTA MINING AND MANUFACTURING COMPANY [US/US]; 3M Center, P.O. Box 33427, Saint Paul, MN 55133-3427 (US).</p> <p>(72) Inventors: LARSON, Roger, D.; P.O. Box 33427, Saint Paul, MN 55133-3427 (US). FERGEN, James, E.; P.O. Box 33427, Saint Paul, MN 55133-3427 (US). NELSON, John, E.; P.O. Box 33427, Saint Paul, MN 55133-3427 (US). BRACE, Thomas, J.; P.O. Box 33427, Saint Paul, MN 55133-3427 (US). KIEFFER, Michael, J.; P.O. Box 33427, Saint Paul, MN 55133-3427 (US). YORKOVICH, John, D.; P.O. Box 33427, Saint Paul, MN 55133-3427 (US). KAREL, Gerald, L.; P.O. Box 33427, Saint Paul, MN 55133-3427 (US). MARSOLEK, Gerald, G.; P.O. Box 33427, Saint Paul, MN 55133-3427 (US). SCHWIETZ, Joseph, E., Jr.; P.O. Box 33427, Saint Paul, MN 55133-3427 (US). GRUNES, Mitchell, B.; P.O. Box 33427, Saint Paul, MN 55133-3427 (US). MCLEOD, Kathleen, M.; P.O. Box 33427, Saint Paul, MN 55133-3427 (US). WILLEMS,</p>		<p>Richard, M.; P.O. Box 33427, Saint Paul, MN 55133-3427 (US). WURZ, Ronald, C.; P.O. Box 33427, Saint Paul, MN 55133-3427 (US).</p> <p>(74) Agents: BUCKINGHAM, Stephen, W. et al.; Minnesota Mining and Manufacturing Company, Office of Intellectual Property Counsel, P.O. Box 33427, Saint Paul, MN 55133-3427 (US).</p> <p>(81) Designated States: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, UZ, VN, YU, ZW, ARIPO patent (GH, GM, KE, LS, MW, SD, SL, SZ, UG, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG).</p> <p>Published <i>Without international search report and to be republished upon receipt of that report.</i></p>
<p>(54) Title: TERMINAL FOR LIBRARIES AND THE LIKE</p>		
<p>(57) Abstract</p> <p>A library terminal permits a user to execute a loan transaction without assistance. The library terminal (i) provides a visible scan line from a bar code reader indicating the correct positioning of the bar code on a circulating item, (ii) leads a user through a loan transaction, (iii) provides an explicit feedback to a user when an article has an improper position on the article receiving area, (iv) both checks out and checks in circulating items, (v) stores fonts in bit maps of screen displays instead of in a separate font memory, (vi) integrates a security marker reader, a printer, and a controller in the same housing, (vii) processes financial transactions related to the borrowing of circulating items, and/or (viii) displays actions for helping the user to correct errors in use of the terminal.</p> <div> </div>		