PCT WORLD INTELLECTUAL PROPERTY ORGANIZATION
International Bureau

INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(51) International Patent Classification 6 : G06F 17/30 | A2

(11) International Publication Number: WO 95/30960

(43) International Publication Date: 16 November 1995 (16.11.95)

(21) International Application Number: PCT/SE95/00457

(22) International Filing Date: 25 April 1995 (25.04.95)

(30) Priority Data:
237,988 4 May 1994 (04.05.94) US

(71) Applicant *(for all designated States except US)*: TELEFONAKTIEBOLAGET LM ERICSSON [SE/SE]; S-126 25 Stockholm (SE).

(72) Inventors; and

(75) Inventors/Applicants *(for US only)*: LÖFGREN, Nils, Adolf, Lennart [SE/SE]; Kullen Gammalkil, S-590 50 Vikingstad (SE). ERIKSSON, Mats, Erland [SE/SE]; Unbyn 8646, S-961 93 Boden (SE). DAHLIN, Mats, Håkan [SE/SE]; Norevägen 18 B, S-182 61 Djursholm (SE).

(74) Agents: LÖVGREN, Tage et al.; Telefonaktiebolaget LM Ericsson, Patent and Trademark Dept., S-126 25 Stockholm (SE).

(81) Designated States: AM, AT, AU, BB, BG, BR, BY, CA, CH, CN, CZ, DE, DK, EE, ES, FI, GB, GE, HU, JP, KE, KG, KP, KR, KZ, LK, LR, LT, LU, LV, MD, MG, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, TJ, TT, UA, US, UZ, VN, European patent (AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG), ARIPO patent (KE, MW, SD, SZ, UG).

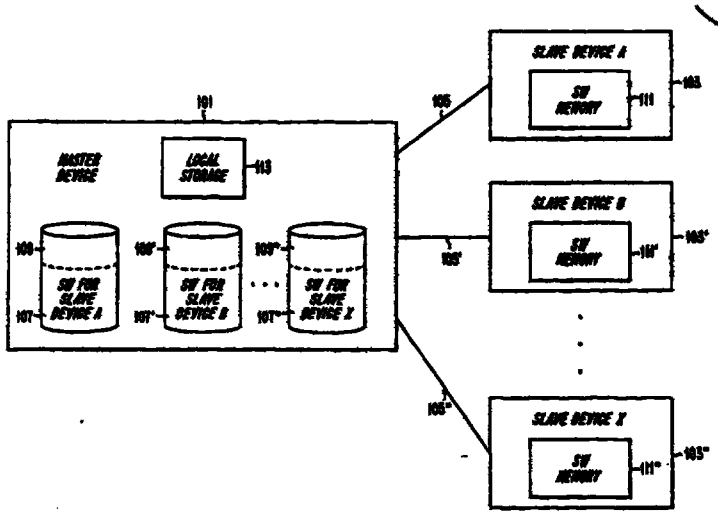
Published

Without international search report and to be republished upon receipt of that report.

RTMP

SG 9611843-5

(54) Title: PROVIDING A MASTER DEVICE WITH SLAVE DEVICE CAPABILITY INFORMATION



(57) Abstract

In a system having a master device coupled to a slave device by means of an interface, wherein a function of the master device includes downloading a control program to the slave device, an apparatus for providing the master device with capability information corresponding to the slave device has hardware for reading the capability information from a predefined portion of the control program, and hardware for storing the capability information for use by the master device during a communications operation with the slave device. An encoding scheme for the capability information permits new functions to be added without having to re-encode pre-existing information corresponding to pre-existing slave devices. The capability information is encoded as a first vector and a second vector. A new function that is supported by a new slave device is added to the first vector when the new function is not supported by any pre-existing slave device. Default values are provided for pre-existing first vectors, to indicate that the new function is not supported by the pre-existing slave devices. Similarly, a new function that is supported by all pre-existing slave devices but not supported by a new slave device is added to the second vector, with appropriate default values provided for pre-existing second vectors.

FOR THE PURPOSES OF INFORMATION ONLY

Codes used to identify States party to the PCT on the front pages of pamphlets publishing international applications under the PCT.

AT	Austria	GB	United Kingdom	MR	Mauritania
AU	Australia	GE	Georgia	MW	Malawi
BB	Barbados	GN	Guinea	NE	Niger
BE	Belgium	GR	Greece	NL	Netherlands
BF	Burkina Faso	HU	Hungary	NO	Norway
BG	Bulgaria	IE	Ireland	NZ	New Zealand
BJ	Benin	IT	Italy	PL	Poland
BR	Brazil	JP	Japan	PT	Portugal
BY	Belarus	KE	Kenya	RO	Romania
CA	Canada	KG	Kyrgystan	RU	Russian Federation
CF	Central African Republic	KP	Democratic People's Republic of Korea	SD	Sudan
CG	Congo			SE	Sweden
CH	Switzerland	KR	Republic of Korea	SI	Slovenia
CI	Côte d'Ivoire	KZ	Kazakhstan	SK	Slovakia
CM	Cameroon	LI	Liechtenstein	SN	Senegal
CN	China	LK	Sri Lanka	TD	Chad
CS	Czechoslovakia	LU	Luxembourg	TG	Togo
CZ	Czech Republic	LV	Latvia	TJ	Tajikistan
DE	Germany	MC	Monaco	TT	Trinidad and Tobago
DK	Denmark	MD	Republic of Moldova	UA	Ukraine
ES	Spain	MG	Madagascar	US	United States of America
FI	Finland	ML	Mali	UZ	Uzbekistan
FR	France	MN	Mongolia	VN	Viet Nam
GA	Gabon				

96118 43 -5