

Title (en)
NETWORK ON A CHIP SOCKET PROTOCOL

Title (de)
PROTOKOLL FÜR EINE STECKDOSE MIT EINEM NETZWERK AUF EINEM CHIP

Title (fr)
PROTOCOLE DE SOCKET DE RÉSEAU SUR PUCE

Publication
EP 2901294 A1 20150805 (EN)

Application
EP 13842232 A 20130924

Priority

- US 201213626758 A 20120925
- US 201213626766 A 20120925
- US 2013061295 W 20130924

Abstract (en)
[origin: WO2014052261A1] The invention is a transaction interface protocol wherein the interface protocol has a transaction identifier signal in each of the request and response channels. It is used between a target network interface unit (NIU) master and an initiator NIU slave that are directly connected through a transaction interface. The target NIU response channel uses the transaction ID signal to identify the entry in a context array associated with the corresponding request. The coupling of target NIU and initiator NIU enable the formation of an on-chip interconnect comprising multiple network-on-chip (NoCs) wherein the topology of the interconnect is simpler, smaller, faster, and has lower latency.

IPC 8 full level
G06F 13/00 (2006.01); **G06F 13/42** (2006.01); **G06F 15/78** (2006.01)

CPC (source: CN EP)
G06F 15/1735 (2013.01 - EP); **G06F 15/7825** (2013.01 - EP); **H04L 12/403** (2013.01 - CN EP)

Designated contracting state (EPC)
AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)
BA ME

DOCDB simple family (publication)
WO 2014052261 A1 20140403; CN 104685480 A 20150603; CN 104685480 B 20170714; EP 2901294 A1 20150805; EP 2901294 A4 20160810; EP 4123468 A1 20230125; IN 441MUN2015 A 20150911; JP 2015535991 A 20151217; JP 6144348 B2 20170607; KR 101690568 B1 20161228; KR 20150063433 A 20150609

DOCDB simple family (application)
US 2013061295 W 20130924; CN 201380049320 A 20130924; EP 13842232 A 20130924; EP 22196229 A 20130924; IN 441MUN2015 A 20150303; JP 2015533265 A 20130924; KR 20157009635 A 20130924