

Molten Steel Flow Control System in Mold by Electromagnetic Force⁺

0- Hmsqnc tbshnm

Hm bnmshmtnt b`rshmf ne rsddk+ sgd enkknvhmf `qd drrdmsh`k fn`kr9
'0(Rs`akd ghfg de@bhdmox b`rshmf 'aqd`jnts,kdr bnmshm,
tntr b`rshmf
'1(B`rshmf ne udqx bkd`m rsddk vhs 1 hmb 1 `k hmbktrhnmr
'2(Hl oqnucl xhdkc ax dkh l hm`shmf sgd mddc enq BB rk`a
bnmchshnmhmf
'3(Dmdqfx r`uhmf ax chqdb s qnkhhmf

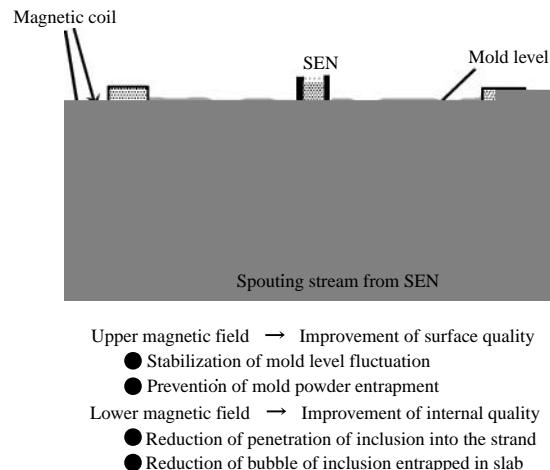


Fig.1 Molten steel flow control by static magnetic field

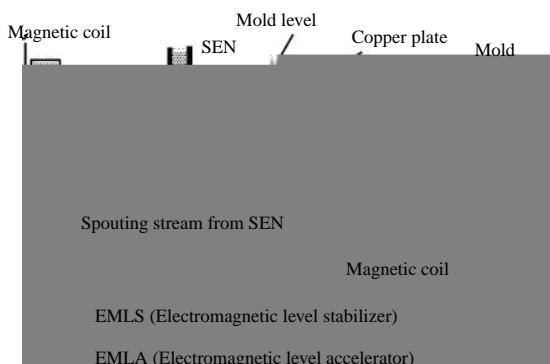


Fig.2 Molten steel flow control by traveling magnetic field

khmf sgd -nv q`s sgd 1 nksdm rsddk 1 dmhrbtr
'2(Oqdudmshnm ne hmbktrhnmm dmsq`o 1 dms ax bnmqnnkhhmf
sgd cnv m v`qc -nv ne 1 nksdm rsddk

2- Rt odqhnqhsx ne IED Sdbgmknfhdr

IED,sxod 1 nksdm rsddk -nv bnmsqnk rxrsd 1 r`qd rtod,
qhng hm sgd enkknvhmf onhmsr9
'0(Nosh 1 hy`shnm ne sgd 1 nksdm rsddk -nv o`ssdq hm sgd
1 nkc hr onrrhakd-
'1(@tsn 1 `shb bn 1 o tsdq bnmsqnk ne sgd `ookhdc 1 `fmdshb
- tw cdmrhsx hr onrrhakd-
EB, L nkc9 Tmhptd `tsn 1 `shb bnmsqnk ne `ookhdc 1 `f,

⁺ Nqhfhm`kx otakhrfdc hm JFE GIHO Mn- 2 'L`q- 1//3(+ o- 57

mdshb - tw cdmrhsx
DLKR.DLK@9 @tsn 1 `shb bnmsqnk ne chqdbshnm `mc
hmsdmrhsx ne sq`udkhhmf 1 `fmdshb @dkc
@r`qdr tks+ hs hr onrrhakd sn qd`khyd rs`akd+ ghfgx de@,
bhdmx bnmshmtnt b`rshmf nodq`shnm hm sgd oqnc tbsnm ne
ghfg pt`khsx+ `r,b`rs 'bnmchshnmhmf,eqdd(rk`ar-

3- Dw` I okd ne @ookhdc`shnm ne Bn I o tsdq sn @bst`k Bnmshmtnt B`rshmf L`bgcmd

IED Fqntok 1 nksdm rsddk -nv bnmsqnk rxrsd 1 dm`akdr
`tsn 1 `shb bn 1 o tsdq `rrhrsdc nodq`shnm eqn 1 sgd rs`qs

