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			1 (WO2	015013704) SYSTE			Machine translatio	n DE DISTILLED SPIRITS	
PCT	Biblio. Da	ata	Description	Claims National	Phase Notice	s Drawings	Documents		
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CLA	IMS								
Wha	t is claime	ed is:							
1. A	process f	for pr	oducing a d	istilled spirit having c	haracteristics as	sociated wit	h a mature spirit con	nprising:	
cont betw such	acting an veen abou n that eva	unm ut 140 porat	atured distil 0° F and abo tion of volati	led spirit with wood to out 170° F for a perio le compounds is prev	o give a distilled d of time ranging vented.	spirit mixture g from about	e, and maintaining th 12 hours to about 3	ne temperature of the distilled spirit mixture 136 hours in a sealed vessel or under reflux	
2. TI	he proces	ss of o	claim 1, whe	erein the spirit is chos	en from sugar c	ane spirits, g	grain spirits, fruit spir	rits, or agave spirits.	
3. The process of claim 1, wherein the spirit is chosen from rum, tequila, mescal, whiskey, brandy, and gin.									
4. TI cond	4. The process of claim 1, wherein the unmatured distilled spirit is characterized by an ethyl decanoate concentration and the ethyl decanoate concentration increases by at least about 1.5X during the process.								
5. TI conc	he proces centration	ss of o	claim 1, whe eases by at	erein the unmatured o least about 1.7X duri	listilled spirit is on ng the process.	haracterized	l by an ethyl decano	ate concentration and the ethyl decanoate	
6. TI conc	he proces centration	ss of o decr	claim 1, whe eases by at	erein the unmatured c least about 50% dur	listilled spirit is c ing the process.	haracterized	by an ethyl acetate	concentration and the ethyl acetate	
7. The process of claim 1, wherein the temperature is maintained between about 150° F and about 160° F.									
8. TI	3. The process of claim 1, wherein the wood is oak.								
9. TI	9. The process of claim 1, wherein the process is conducted in the absence of an added acid.								
10. ⊺ aboι	The proce It 168 hou	ess of urs to	f claim 1, wh about 226	nerein the temperatur hours.	e is maintained	between abo	out 140° F and abou	t 150 $^{ m 0}$ F for a period of time ranging from	
11. T 12 h	The proce ours to at	ess of bout 1	f claim 1, wh 72 hours.	nerein the temperatur	e is maintained l	between abo	out 150° F and about	t 160° F for a period of time ranging from about	
12. 1 12 h	The proce ours to at	ess of bout 4	f claim 1, wh 48 hours.	nerein the temperatur	e is maintained	between abo	out 150° F and abou	t 160° F for a period of time ranging from about	
13. /	A process	for p	producing a	distilled spirit having	characteristics a	ssociated w	ith a matured distille	ed spirit comprising:	
(a) c	btaining a	a mar	rker concent	tration of a chemical	ation of a chemical compound in a target matured distilled spirit thereby giving a target marker concentration,				
(b) c	b) contacting an unmatured distilled spirit with wood to form a distilled spirit mixture;								
(c) n) measuring the marker concentration of the distilled spirit mixture; and								
(d) h evap conc	eating the ooration o centration	e dist of vola	tilled spirit m atile compou	nixture to a temperatu Inds is prevented unt	re between abo il the marker cor	ut 140° F an ncentration c	d about 170° F in a s f the distilled spirit n	sealed vessel or under reflux such that nixture reaches the target marker	
14. 1	The proce	ess of	f claim 13, w	vherein the spirit is ch	losen from suga	r cane spirit	s, grain spirits, fruit s	spirits, or agave spirits.	
15.	The proce	ess of	f claim 13, w	vherein the unmature	d distilled spirit i	s chosen fro	m rum, tequila, meso	cal, whiskey, brandy, or gin.	
16.]	16. The process of claim 13, wherein the mixture is heated to a temperature of about 150° F and about 160° F.								
17. T chro	17. The process of claim 13, wherein the marker concentration is measured by mass spectrometry, high performance liquid chromatography, gas chromatography, or calorimetric methods.								
18. 1	18. The process of claim 13, wherein the marker is ethyl acetate.								
19. 1	19. The process of claim 13, wherein the marker is ethyl decanoate.								
20. 1	20. The process of claim 13, wherein the marker is one or more semi-volatiles.								
21.]	The proce	ess of	f claim 13, w	herein the target ma	rker concentratio	on is higher	than the concentration	on in the unmature distilled spirit.	
22.]	The proce	ess of	f claim 13, w	vherein the target ma	rker concentratio	on is lower tl	nan the concentratio	n in the unmature distilled spirit.	

23. A process for producing a spirit having characteristics of a matured distilled spirit comprising:

contacting an unmatured distilled spirit with wood to give a distilled spirit mixture, and maintaining the temperature of the distilled spirit mixture between about 140° F and about 170° F in a sealed vessel or under reflux such that evaporation of volatile compounds is prevented until the ethyl decanoate concentration is increased by at least about 1.5X.

24. The process of claim 23, wherein the temperature is maintained between about 150° F and about 160° F.

25. The process of claim 23, wherein the temperature is maintained between about 150° F and about 160° F for a period of time ranging from about 12 hours to about 48 hours.

26. The process of claim 25, wherein the spirit is chosen from rum, tequila, mescal, whiskey, brandy, and gin.

27. The process of claim 26, wherein the ethyl decanoate concentration is increased by at least about 1.7X.